

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P458346

Luminaire Tested: **GALN-SA9D-730-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458346  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 63753 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

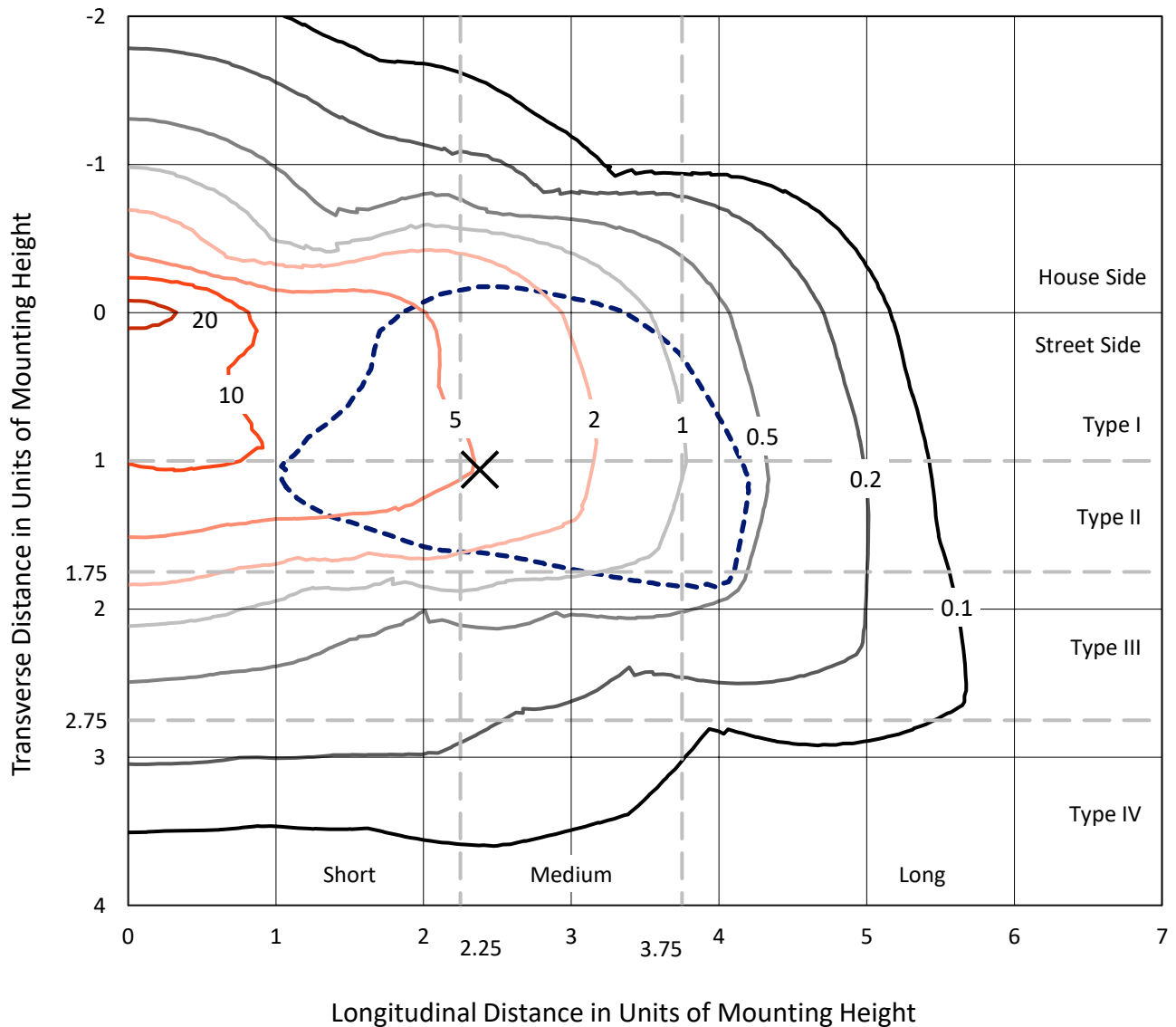
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

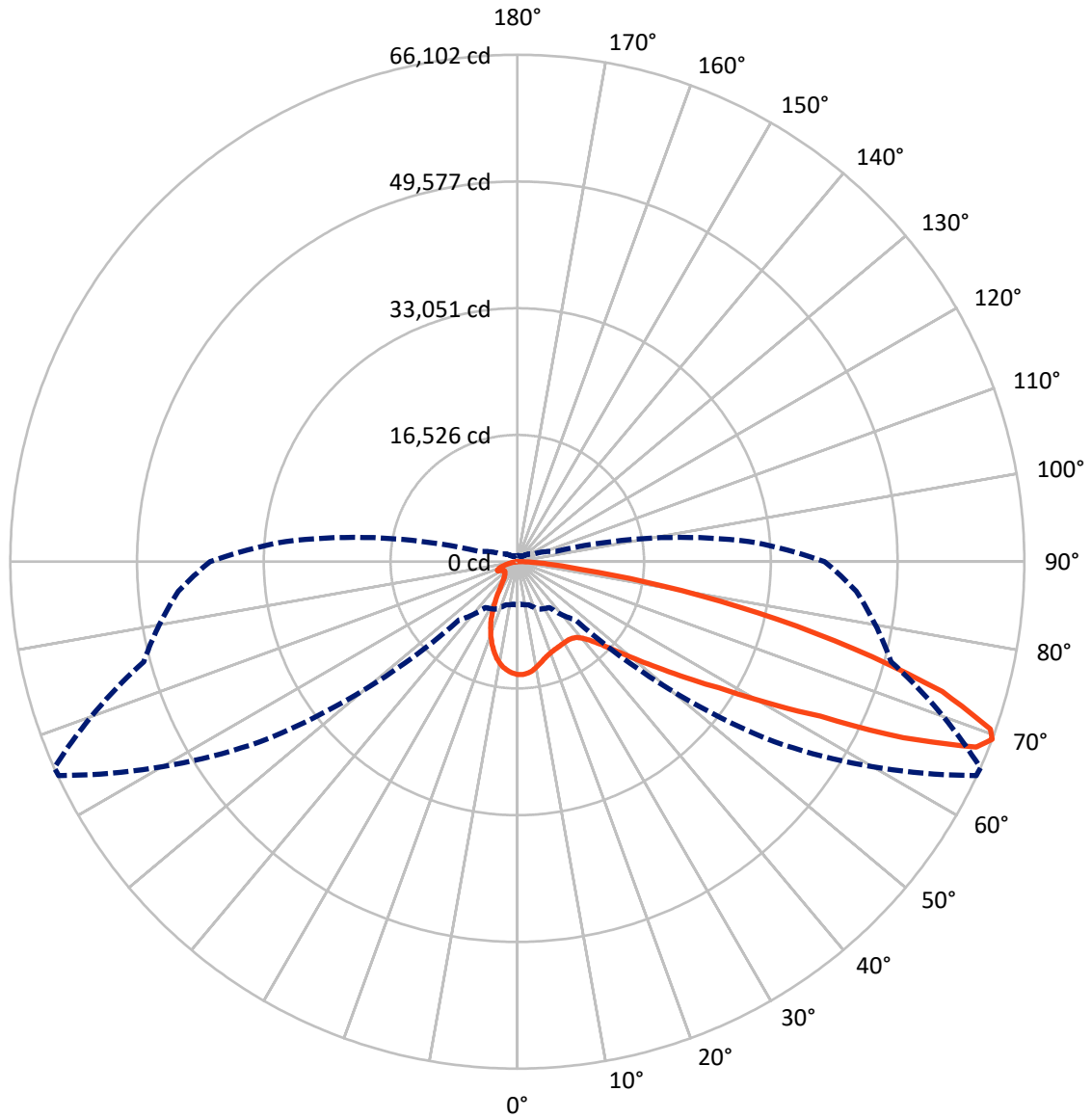
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11989.5	0.0	11989.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	51763.5	0.0	51763.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	63753.0	0.0	63753.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1278.5	2.0
10°-20°	3032.4	4.8
20°-30°	4128.3	6.5
30°-40°	5547.5	8.7
40°-50°	8283.3	13.0
50°-60°	13176.0	20.7
60°-70°	16205.8	25.4
70°-80°	10544.2	16.5
80°-90°	1557.1	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	63753.0	100.0
0°-180°	63753.0	100.0

**Coefficient of Utilization**



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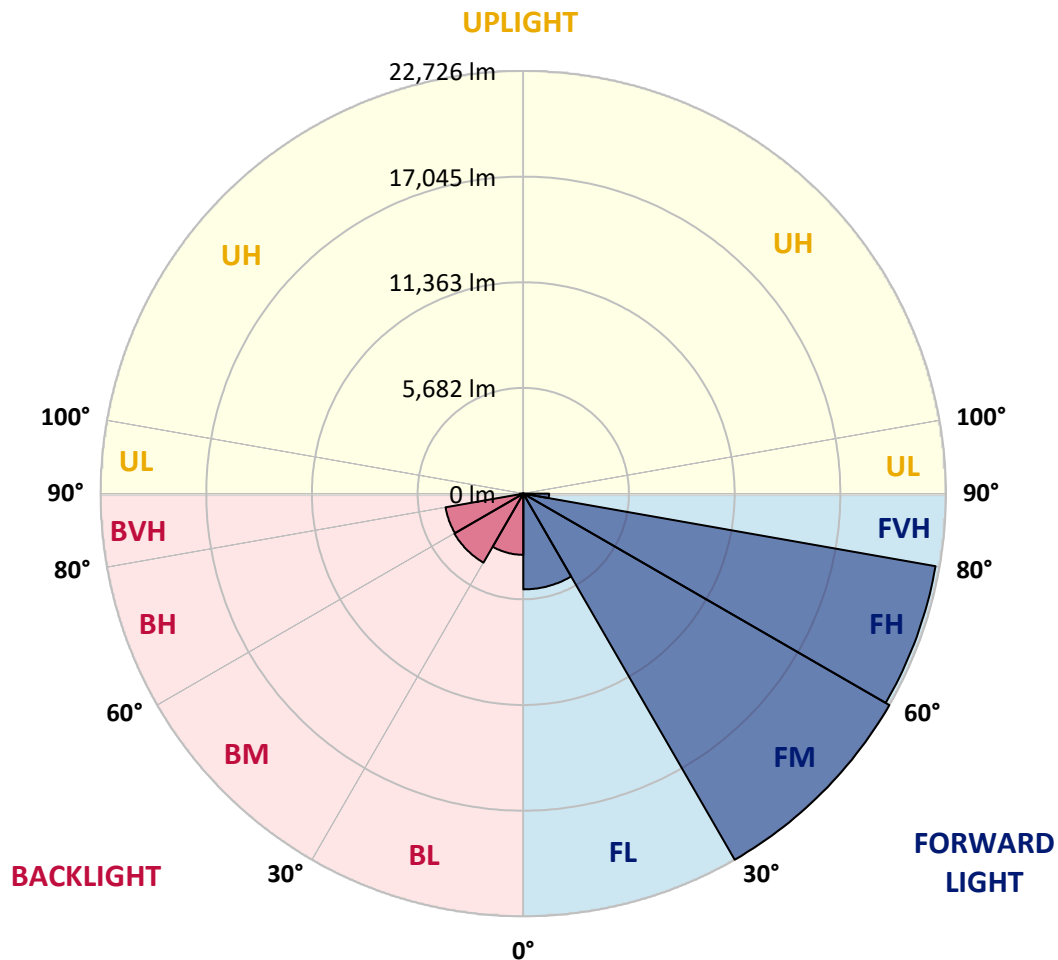
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5148.0	8.1			
FM (30°-60°)	22726.0	35.6			
FH (60°-80°)	22505.1	35.3			G5
FVH (80°-90°)	1384.3	2.2			G5
BL (0°-30°)	3291.2	5.2	B4/5000		
BM (30°-60°)	4280.8	6.7	B3/5000		
BH (60°-80°)	4244.8	6.7	B4/5000		G4/5000
BVH (80°-90°)	172.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	14722.3	14722.3	14722.3	14722.3	14722.3	14722.3	14722.3	14722.3	14722.3	14722.3	14722.3
2.5°	14206.9	14263.4	14326.9	14397.5	14531.7	14605.8	14658.8	14718.8	14725.9	14757.6	14732.9
5°	13158.3	13225.4	13320.7	13454.9	13656.1	13970.3	14295.1	14559.9	14591.7	14740.0	14782.4
7.5°	12282.7	12321.6	12399.2	12614.6	12900.6	13250.1	13723.2	14259.8	14337.5	14690.6	14814.1
10°	11569.6	11608.4	11700.2	11922.6	12205.1	12642.9	13161.8	13867.9	13931.5	14538.8	14821.2
12.5°	11036.5	11071.8	11170.6	11389.5	11714.3	12123.9	12695.8	13444.3	13536.1	14337.5	14754.1
15°	10630.4	10697.5	10778.7	10958.8	11301.2	11696.7	12251.0	13055.9	13130.1	14125.7	14708.2
17.5°	10457.5	10489.2	10545.7	10711.6	10962.3	11350.7	11908.5	12752.3	12840.6	13977.4	14697.6
20°	10464.5	10496.3	10506.9	10598.7	10778.7	11114.1	11664.9	12512.2	12618.1	13846.8	14715.3
22.5°	10704.6	10708.1	10669.3	10637.5	10708.1	10987.0	11491.9	12332.2	12455.7	13790.3	14729.4
25°	11075.3	11138.8	11082.4	10934.1	10803.4	10937.6	11424.8	12233.3	12349.8	13709.1	14711.7
27.5°	11675.5	11686.1	11640.2	11438.9	11100.0	11001.2	11396.6	12159.2	12258.0	13649.1	14623.5
30°	12480.4	12448.7	12406.3	12183.9	11650.8	11244.8	11456.6	12092.1	12194.5	13560.8	14517.6
32.5°	13296.0	13394.9	13356.0	13094.8	12402.8	11717.9	11650.8	12085.0	12169.8	13493.7	14401.1
35°	14161.0	14206.9	14390.5	14256.3	13546.7	12484.0	12014.4	12194.5	12261.6	13497.2	14319.9
37.5°	14838.8	14962.4	15393.1	15509.6	14842.4	13497.2	12604.0	12505.2	12533.4	13670.2	14351.6
40°	15657.9	15869.8	16424.1	16900.7	16462.9	14814.1	13606.7	13080.6	13115.9	14086.8	14559.9
42.5°	16695.9	16844.2	17589.1	18235.2	18164.6	16554.7	14821.2	14023.3	14040.9	14916.5	15142.5
45°	17910.4	18122.2	18959.0	19929.9	20095.8	18524.7	16575.9	15449.6	15439.0	16205.2	16229.9
47.5°	19463.9	19594.5	20424.2	21483.3	22154.1	20999.6	18704.8	17497.3	17384.4	18083.4	17882.2
50°	20893.7	21098.5	21726.9	22884.9	24554.9	23898.2	21504.5	20152.3	19887.5	20540.7	20201.7
52.5°	21493.9	21709.3	22238.9	23675.8	26613.2	27647.6	25059.8	23319.2	22877.9	23379.2	23255.6
55°	20452.4	20731.3	21225.6	22973.2	27517.0	31972.5	29854.2	26980.4	26659.1	26443.7	26479.0
57.5°	17652.7	17917.5	18584.7	20512.4	26436.7	35111.2	36699.9	31686.6	30998.1	30006.0	30175.5
60°	13437.2	13603.2	13949.2	16085.1	23234.5	35926.7	44474.2	37635.5	37197.7	33554.2	33674.3
62.5°	9543.0	9730.2	9970.2	11036.5	17010.1	33628.4	50560.8	45942.9	44378.8	37229.5	37113.0
65°	7749.5	7622.4	7911.9	8409.7	9980.8	26062.4	51930.7	57473.6	55320.0	42069.9	40452.9
67.5°	6372.6	6238.5	6524.4	7410.6	7590.7	15128.4	46995.0	64958.3	64527.6	47333.9	43845.7
69°	5641.8	5571.2	5821.9	6831.6	7287.0	10743.4	40940.1	65999.9	66102.2	50437.3	44368.3
70°	5084.0	5112.2	5355.8	6538.6	7149.3	8858.1	34991.2	64562.9	65431.4	51987.2	43803.4
72.5°	3742.4	3802.4	4141.3	5415.8	7018.7	7516.5	20823.1	56393.3	57929.1	52079.0	40071.6
75°	2616.1	2587.9	2888.0	4077.8	6630.3	7449.4	12229.8	43612.7	45353.3	45014.3	33670.7
77.5°	1712.3	1758.2	1998.3	2880.9	5578.2	7392.9	7972.0	30941.6	32071.4	30104.9	19915.8
80°	1207.4	1203.9	1338.1	1966.5	4137.8	7103.4	6528.0	19502.7	19216.7	11830.8	5906.6
82.5°	692.0	741.4	896.8	1384.0	2767.9	6252.6	6005.4	9327.7	8515.7	3371.7	1994.8
85°	384.8	402.5	533.1	836.7	1617.0	4709.7	5242.8	4243.7	4003.6	1408.7	857.9
87.5°	123.6	134.2	222.4	423.7	734.4	2224.2	2969.2	1959.4	1807.6	508.4	346.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14722.3	14722.3	14722.3	14722.3	14722.3	14722.3	14722.3	14722.3	14722.3	14722.3	14722.3
2.5°	14743.5	14785.9	14672.9	14563.5	14464.6	14326.9	14203.4	14101.0	14030.4	14019.8	13984.5
5°	14792.9	14796.5	14581.1	14291.6	14009.2	13698.5	13377.2	13147.7	12932.4	12812.3	12752.3
7.5°	14828.3	14796.5	14408.1	13938.6	13394.9	12830.0	12265.1	11813.2	11463.7	11326.0	11378.9
10°	14814.1	14715.3	14146.9	13394.9	12604.0	11760.2	10948.2	10312.7	9730.2	9430.1	9437.1
12.5°	14736.5	14574.1	13758.5	12784.1	11622.5	10492.8	9250.0	8392.1	7717.8	7318.8	7195.2
15°	14669.4	14386.9	13303.1	11954.4	10510.4	8897.0	7382.4	6323.2	5758.3	5444.1	5440.6
17.5°	14598.8	14206.9	12805.3	11075.3	9232.4	7156.4	5567.7	4759.2	4494.4	4526.1	4473.2
20°	14524.6	13995.0	12286.3	10097.3	7675.4	5338.2	4169.6	3841.2	3915.4	4060.1	4081.3
22.5°	14439.9	13769.1	11728.4	9020.5	6037.2	4017.8	3382.3	3332.8	3523.5	3749.4	3781.2
25°	14309.3	13486.7	11025.9	7894.3	4656.8	3237.5	2962.1	2997.4	3184.5	3375.2	3396.4
27.5°	14125.7	13137.1	10316.2	6489.1	3498.8	2778.5	2707.9	2753.8	2845.6	2962.1	2990.4
30°	13878.5	12741.7	9500.7	5274.6	2803.2	2549.0	2520.8	2545.5	2598.5	2647.9	2662.0
32.5°	13631.4	12360.4	8678.1	4038.9	2499.6	2397.2	2369.0	2369.0	2369.0	2376.1	2379.6
35°	13401.9	12000.3	7795.4	3145.7	2340.7	2277.2	2238.4	2196.0	2188.9	2164.2	2164.2
37.5°	13274.8	11672.0	6856.3	2633.8	2224.2	2178.3	2125.4	2054.8	2015.9	2019.5	2012.4
40°	13299.5	11456.6	6001.9	2344.3	2128.9	2079.5	1998.3	1917.1	1892.4	1892.4	1885.3
42.5°	13578.4	11386.0	5182.8	2192.5	2037.1	1980.6	1878.2	1804.1	1790.0	1786.5	1793.5
45°	14221.0	11559.0	4448.5	2093.6	1959.4	1874.7	1772.3	1705.2	1691.1	1691.1	1687.6
47.5°	15474.3	12120.3	3922.4	2030.1	1903.0	1793.5	1687.6	1620.5	1595.8	1588.7	1588.7
50°	17423.2	13338.4	3530.5	1973.6	1832.3	1719.4	1609.9	1532.3	1493.4	1489.9	1486.4
52.5°	20131.1	15237.8	3378.7	1931.2	1754.7	1641.7	1521.7	1447.5	1398.1	1387.5	1380.4
55°	23298.0	17889.2	3587.0	1899.4	1673.5	1553.4	1429.9	1352.2	1306.3	1285.1	1281.6
57.5°	26966.2	21073.8	4377.9	1857.1	1599.3	1458.1	1338.1	1260.4	1211.0	1186.3	1179.2
60°	30260.2	24346.6	5758.3	1832.3	1535.8	1355.7	1232.2	1161.5	1115.6	1090.9	1087.4
62.5°	33879.0	27467.6	7407.1	1899.4	1507.5	1256.9	1133.3	1069.8	1030.9	1006.2	1006.2
65°	37745.0	30592.1	8498.0	2125.4	1549.9	1179.2	1027.4	974.4	939.1	921.5	917.9
67.5°	40350.5	31672.4	7001.1	2358.4	1655.8	1094.5	925.0	882.6	861.5	843.8	843.8
69°	40068.1	30306.1	5165.2	2418.4	1687.6	1052.1	868.5	836.7	808.5	801.4	794.4
70°	39174.8	28749.2	4328.4	2379.6	1662.9	1013.3	833.2	794.4	769.7	762.6	759.1
72.5°	34892.3	24932.7	3223.4	2068.9	1415.7	879.1	737.9	702.6	681.4	670.8	670.8
75°	28989.2	20378.3	2517.3	1645.2	1108.6	741.4	632.0	603.7	586.1	579.0	575.5
77.5°	16247.5	11378.9	1807.6	1288.6	840.3	600.2	529.6	504.9	487.2	480.2	480.2
80°	4526.1	3251.6	1062.7	850.9	571.9	455.4	420.1	402.5	377.8	360.1	370.7
82.5°	1705.2	1408.7	607.3	511.9	363.6	303.6	293.0	278.9	268.3	243.6	243.6
85°	829.7	684.9	388.4	271.9	201.2	158.9	151.8	144.8	137.7	120.0	123.6
87.5°	286.0	303.6	169.5	98.9	60.0	38.8	31.8	17.7	17.7	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)