

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: P458143

Luminaire Tested: **GALN-SA9C-740-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458143  
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-SA9C-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1050mA 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: 63619 lumens  
Efficiency: N/A  
Efficacy: 132.3 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

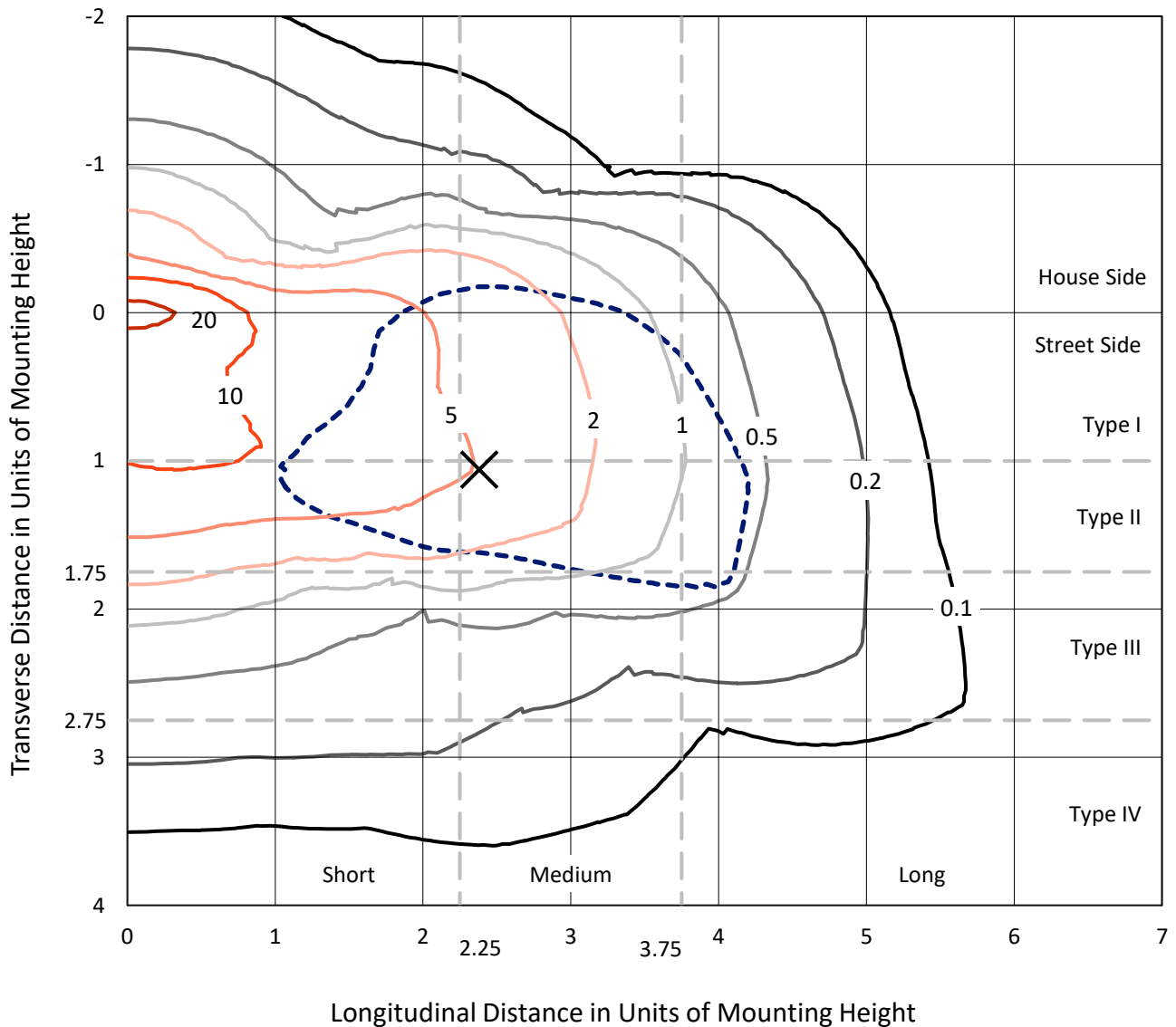
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

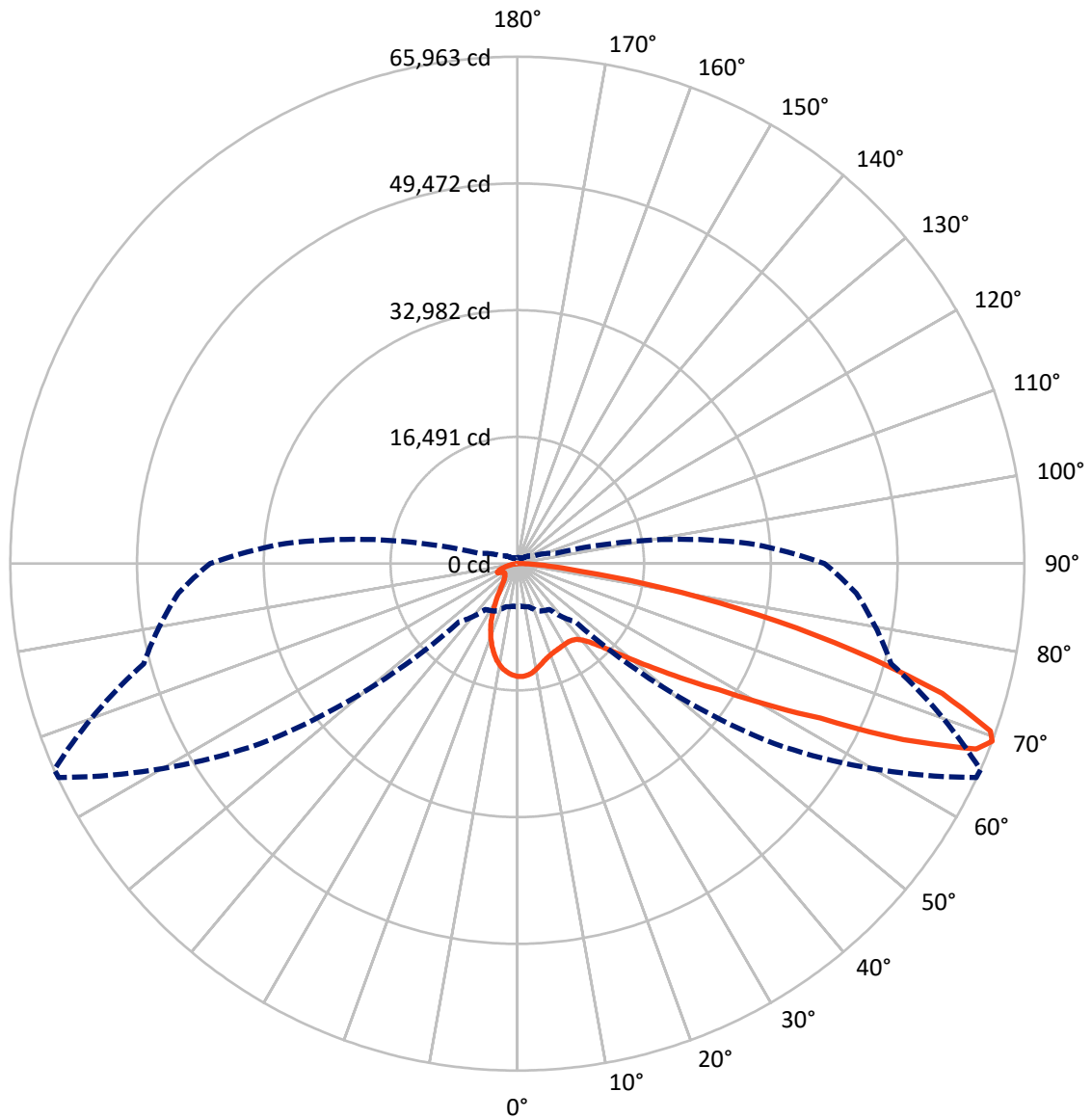
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.5 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	11964.3	0.0	11964.3
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	51654.7	0.0	51654.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	63619.0	0.0	63619.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1275.8	2.0
10°-20°	3026.1	4.8
20°-30°	4119.6	6.5
30°-40°	5535.8	8.7
40°-50°	8265.9	13.0
50°-60°	13148.3	20.7
60°-70°	16171.7	25.4
70°-80°	10522.0	16.5
80°-90°	1553.8	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°	63619.0	100.0
0°-180°	63619.0	100.0

**Coefficient of Utilization**



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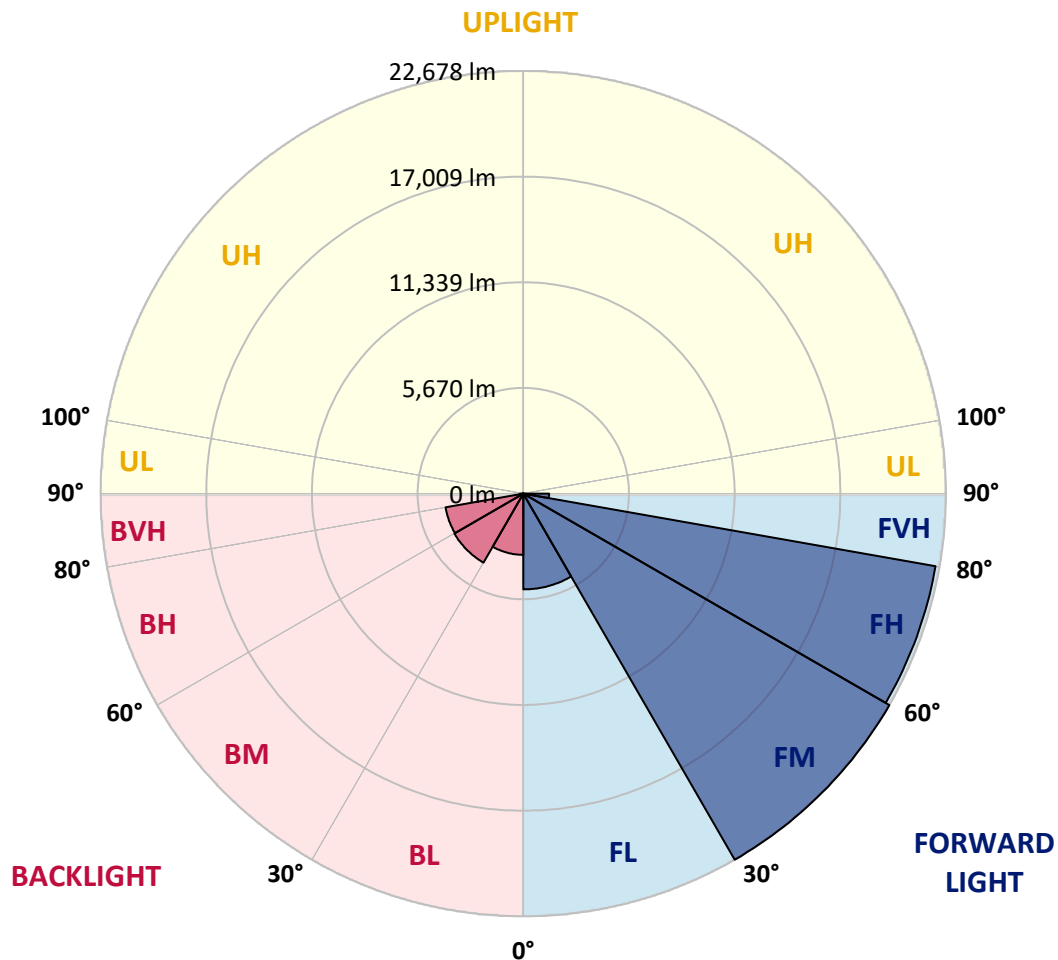
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5137.2	8.1			
FM (30°-60°)	22678.3	35.6			
FH (60°-80°)	22457.8	35.3			G5
FVH (80°-90°)	1381.4	2.2			G5
BL (0°-30°)	3284.3	5.2	B4/5000		
BM (30°-60°)	4271.8	6.7	B3/5000		
BH (60°-80°)	4235.9	6.7	B4/5000		G4/5000
BVH (80°-90°)	172.4	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°	14691.4	14691.4	14691.4	14691.4	14691.4	14691.4	14691.4	14691.4	14691.4	14691.4	14691.4
2.5°	14177.0	14233.4	14296.8	14367.3	14501.1	14575.1	14628.0	14687.9	14694.9	14726.6	14702.0
5°	13130.7	13197.6	13292.7	13426.6	13627.4	13941.0	14265.1	14529.3	14561.0	14709.0	14751.3
7.5°	12256.9	12295.7	12373.2	12588.1	12873.5	13222.3	13694.4	14229.9	14307.4	14659.7	14783.0
10°	11545.3	11584.0	11675.6	11897.6	12179.4	12616.3	13134.2	13838.8	13902.2	14508.2	14790.0
12.5°	11013.3	11048.5	11147.1	11365.6	11689.7	12098.4	12669.1	13416.0	13507.6	14307.4	14723.1
15°	10608.1	10675.0	10756.1	10935.8	11277.5	11672.1	12225.2	13028.5	13102.5	14096.0	14677.3
17.5°	10435.5	10467.2	10523.5	10689.1	10939.3	11326.8	11883.5	12725.5	12813.6	13948.0	14666.7
20°	10442.5	10474.2	10484.8	10576.4	10756.1	11090.8	11640.4	12485.9	12591.6	13817.7	14684.3
22.5°	10682.1	10685.6	10646.9	10615.1	10685.6	10963.9	11467.7	12306.2	12429.6	13761.3	14698.4
25°	11052.0	11115.4	11059.1	10911.1	10780.7	10914.6	11400.8	12207.6	12323.9	13680.3	14680.8
27.5°	11650.9	11661.5	11615.7	11414.9	11076.7	10978.0	11372.6	12133.6	12232.3	13620.4	14592.7
30°	12454.2	12422.5	12380.2	12158.3	11626.3	11221.1	11432.5	12066.7	12168.8	13532.3	14487.1
32.5°	13268.1	13366.7	13327.9	13067.2	12376.7	11693.2	11626.3	12059.6	12144.2	13465.4	14370.8
35°	14131.2	14177.0	14360.2	14226.3	13518.2	12457.7	11989.2	12168.8	12235.8	13468.9	14289.8
37.5°	14807.7	14931.0	15360.8	15477.0	14811.2	13468.9	12577.5	12478.9	12507.1	13641.5	14321.5
40°	15625.0	15836.4	16389.5	16865.2	16428.3	14783.0	13578.1	13053.1	13088.4	14057.2	14529.3
42.5°	16660.8	16808.8	17552.2	18196.9	18126.4	16519.9	14790.0	13993.8	14011.4	14885.2	15110.6
45°	17872.8	18084.2	18919.1	19888.0	20053.6	18485.8	16541.0	15417.2	15406.6	16171.1	16195.8
47.5°	19422.9	19553.3	20381.2	21438.2	22107.6	20955.5	18665.5	17460.6	17347.8	18045.4	17844.6
50°	20849.8	21054.1	21681.3	22836.8	24503.3	23848.0	21459.3	20109.9	19845.7	20497.5	20159.3
52.5°	21448.7	21663.6	22192.1	23626.0	26557.3	27589.5	25007.1	23270.2	22829.8	23330.1	23206.8
55°	20409.4	20687.7	21181.0	22924.9	27459.2	31905.3	29791.5	26923.7	26603.1	26388.1	26423.4
57.5°	17615.6	17879.8	18545.7	20469.3	26381.1	35037.4	36622.8	31620.0	30933.0	29943.0	30112.1
60°	13409.0	13574.6	13919.8	16051.3	23185.6	35851.2	44380.7	37556.4	37119.6	33483.7	33603.5
62.5°	9523.0	9709.7	9949.3	11013.3	16974.4	33557.7	50454.5	45846.3	44285.6	37151.3	37035.0
65°	7733.2	7606.4	7895.3	8392.1	9959.8	26007.6	51821.5	57352.8	55203.7	41981.5	40367.9
67.5°	6359.2	6225.3	6510.7	7395.0	7574.7	15096.6	46896.2	64821.8	64392.0	47234.4	43753.6
69°	5629.9	5559.5	5809.6	6817.2	7271.7	10720.8	40854.1	65861.1	65963.3	50331.2	44275.0
70°	5073.3	5101.5	5344.6	6524.8	7134.3	8839.5	34917.6	64427.2	65293.9	51877.9	43711.3
72.5°	3734.5	3794.4	4132.6	5404.5	7004.0	7500.7	20779.3	56274.7	57807.3	51969.5	39987.4
75°	2610.6	2582.4	2881.9	4069.2	6616.4	7433.8	12204.1	43521.1	45258.0	44919.7	33600.0
77.5°	1708.7	1754.5	1994.1	2874.9	5566.5	7377.4	7955.2	30876.6	32004.0	30041.6	19873.9
80°	1204.9	1201.4	1335.3	1962.4	4129.1	7088.5	6514.2	19461.7	19176.3	11806.0	5894.2
82.5°	690.5	739.9	894.9	1381.1	2762.1	6239.4	5992.8	9308.1	8497.8	3364.6	1990.6
85°	384.0	401.6	532.0	835.0	1613.6	4699.8	5231.8	4234.8	3995.2	1405.7	856.1
87.5°	123.3	133.9	222.0	422.8	732.8	2219.6	2962.9	1955.3	1803.8	507.3	345.3
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°	14691.4	14691.4	14691.4	14691.4	14691.4	14691.4	14691.4	14691.4	14691.4	14691.4	14691.4
2.5°	14712.5	14754.8	14642.1	14532.9	14434.2	14296.8	14173.5	14071.3	14000.9	13990.3	13955.1
5°	14761.9	14765.4	14550.5	14261.6	13979.7	13669.7	13349.1	13120.1	12905.2	12785.4	12725.5
7.5°	14797.1	14765.4	14377.8	13909.3	13366.7	12803.0	12239.3	11788.3	11439.6	11302.2	11355.0
10°	14783.0	14684.3	14117.1	13366.7	12577.5	11735.5	10925.2	10291.0	9709.7	9410.2	9417.3
12.5°	14705.5	14543.4	13729.6	12757.2	11598.1	10470.7	9230.6	8374.4	7701.5	7303.4	7180.1
15°	14638.5	14356.7	13275.1	11929.3	10488.3	8878.3	7366.8	6309.9	5746.2	5432.6	5429.1
17.5°	14568.1	14177.0	12778.3	11052.0	9212.9	7141.4	5556.0	4749.2	4484.9	4516.6	4463.8
20°	14494.1	13965.6	12260.4	10076.1	7659.3	5327.0	4160.8	3833.2	3907.1	4051.6	4072.7
22.5°	14409.5	13740.2	11703.8	9001.6	6024.5	4009.3	3375.1	3325.8	3516.1	3741.5	3773.3
25°	14279.2	13458.3	11002.7	7877.7	4647.0	3230.7	2955.9	2991.1	3177.9	3368.1	3389.2
27.5°	14096.0	13109.5	10294.5	6475.5	3491.4	2772.7	2702.2	2748.0	2839.6	2955.9	2984.1
30°	13849.4	12714.9	9480.7	5263.5	2797.4	2543.7	2515.5	2540.2	2593.0	2642.3	2656.4
32.5°	13602.8	12334.4	8659.8	4030.4	2494.4	2392.2	2364.0	2364.0	2364.0	2371.1	2374.6
35°	13373.7	11975.1	7779.0	3139.1	2335.8	2272.4	2233.7	2191.4	2184.3	2159.7	2159.7
37.5°	13246.9	11647.4	6841.9	2628.2	2219.6	2173.8	2120.9	2050.5	2011.7	2015.2	2008.2
40°	13271.6	11432.5	5989.3	2339.3	2124.4	2075.1	1994.1	1913.1	1888.4	1888.4	1881.3
42.5°	13549.9	11362.0	5171.9	2187.9	2032.8	1976.5	1874.3	1800.3	1786.2	1782.7	1789.7
45°	14191.1	11534.7	4439.1	2089.2	1955.3	1870.8	1768.6	1701.7	1687.6	1687.6	1684.0
47.5°	15441.8	12094.9	3914.2	2025.8	1899.0	1789.7	1684.0	1617.1	1592.4	1585.4	1585.4
50°	17386.6	13310.3	3523.1	1969.4	1828.5	1715.8	1606.5	1529.0	1490.3	1486.8	1483.2
52.5°	20088.8	15205.8	3371.6	1927.1	1751.0	1638.2	1518.5	1444.5	1395.2	1384.6	1377.5
55°	23249.0	17851.6	3579.5	1895.4	1670.0	1550.2	1426.9	1349.4	1303.6	1282.4	1278.9
57.5°	26909.6	21029.5	4368.7	1853.2	1596.0	1455.0	1335.3	1257.8	1208.4	1183.8	1176.7
60°	30196.6	24295.4	5746.2	1828.5	1532.6	1352.9	1229.6	1159.1	1113.3	1088.6	1085.1
62.5°	33807.8	27409.8	7391.5	1895.4	1504.4	1254.2	1130.9	1067.5	1028.7	1004.1	1004.1
65°	37665.6	30527.8	8480.1	2120.9	1546.6	1176.7	1025.2	972.4	937.1	919.5	916.0
67.5°	40265.7	31605.9	6986.3	2353.4	1652.3	1092.2	923.1	880.8	859.6	842.0	842.0
69°	39983.8	30242.4	5154.3	2413.3	1684.0	1049.9	866.7	835.0	806.8	799.7	792.7
70°	39092.5	28688.7	4319.3	2374.6	1659.4	1011.1	831.5	792.7	768.0	761.0	757.5
72.5°	34819.0	24880.2	3216.6	2064.5	1412.8	877.3	736.3	701.1	680.0	669.4	669.4
75°	28928.3	20335.4	2512.0	1641.8	1106.3	739.9	630.6	602.5	584.8	577.8	574.3
77.5°	16213.4	11355.0	1803.8	1285.9	838.5	598.9	528.5	503.8	486.2	479.1	479.1
80°	4516.6	3244.8	1060.5	849.1	570.7	454.5	419.3	401.6	377.0	359.4	369.9
82.5°	1701.7	1405.7	606.0	510.9	362.9	303.0	292.4	278.3	267.8	243.1	243.1
85°	827.9	683.5	387.5	271.3	200.8	158.5	151.5	144.4	137.4	119.8	123.3
87.5°	285.4	303.0	169.1	98.6	59.9	38.8	31.7	17.6	17.6	17.6	17.6
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)