

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: P534312

Luminaire Tested: **GALN-SA9D-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-740-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 63282 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

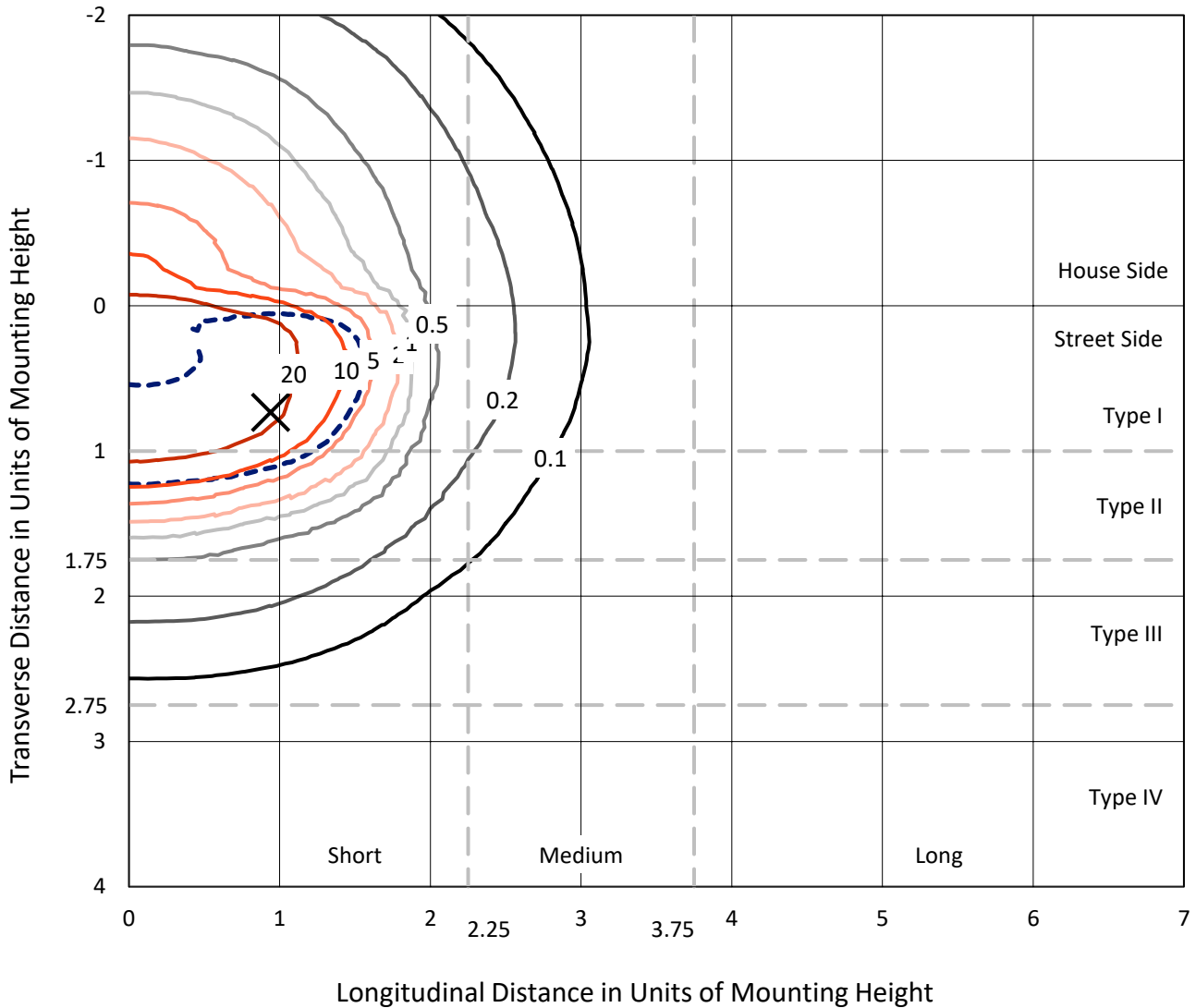
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

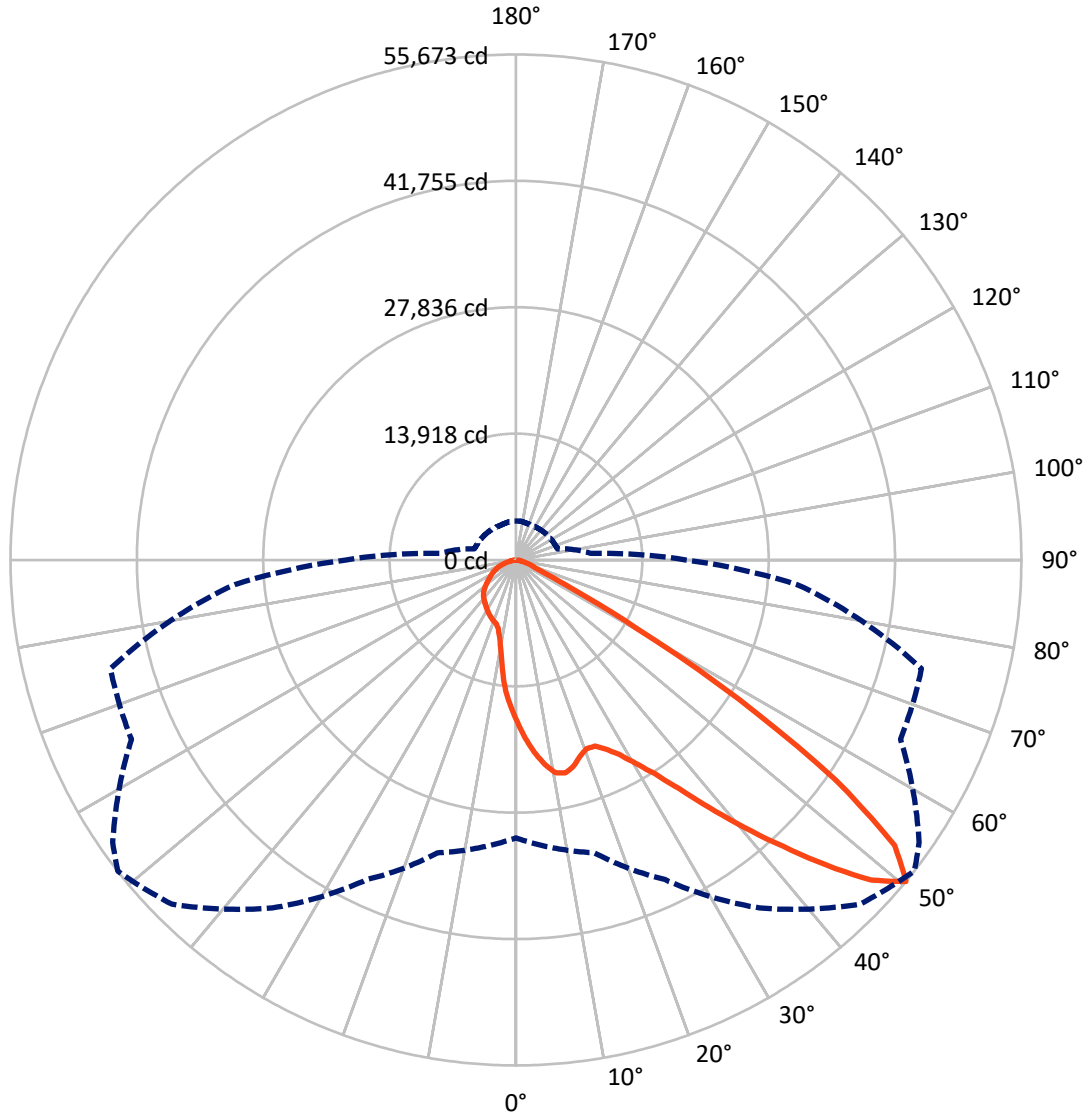
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 36.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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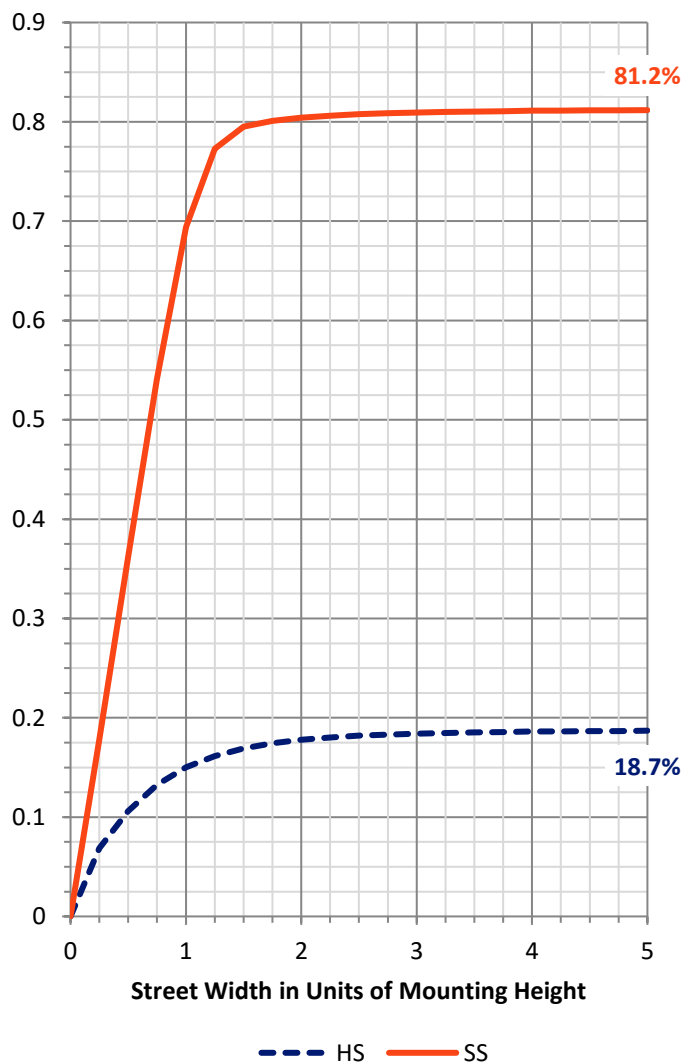
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11895.5	0.0	11895.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	51386.5	0.0	51386.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	63282.0	0.0	63282.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1644.1	2.6
10°-20°	4406.7	7.0
20°-30°	7422.9	11.7
30°-40°	12456.3	19.7
40°-50°	19055.0	30.1
50°-60°	13892.6	22.0
60°-70°	3091.8	4.9
70°-80°	1115.2	1.8
80°-90°	197.4	0.3
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°	63282.0	100.0
0°-180°	63282.0	100.0

**Coefficient of Utilization**



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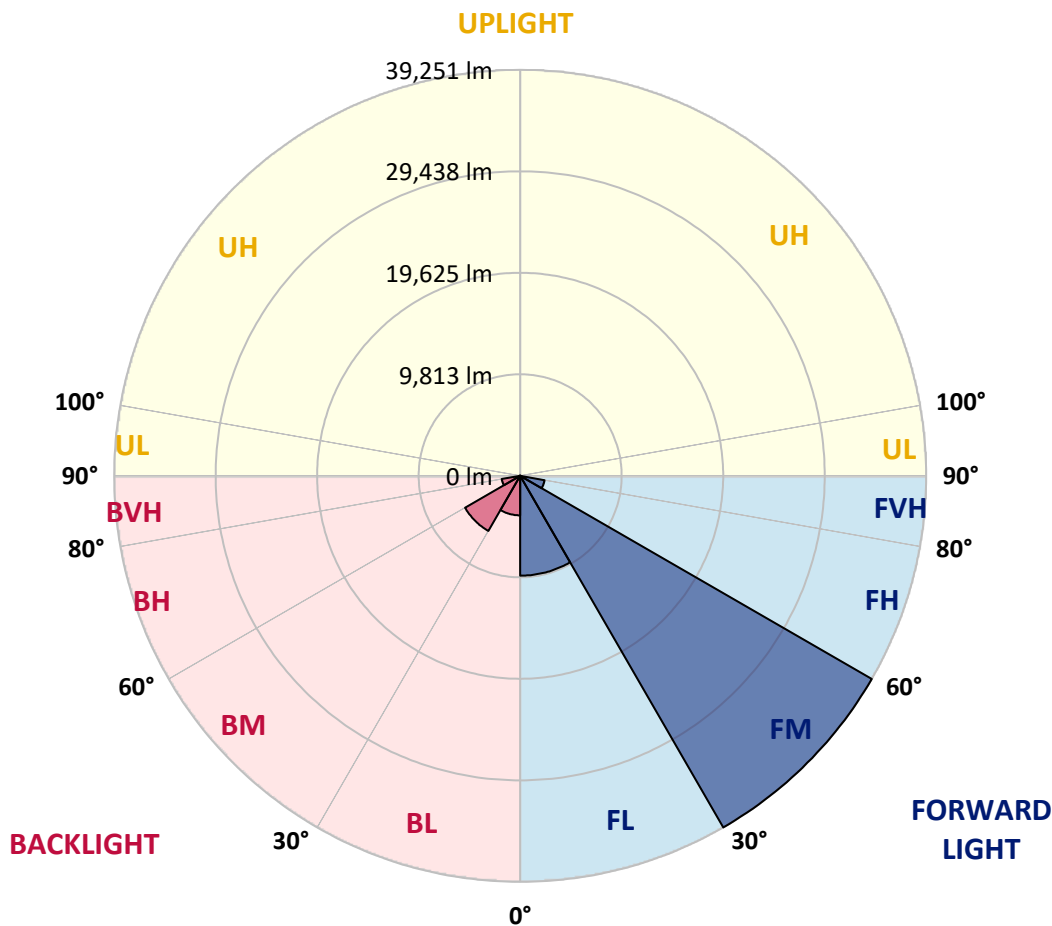
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9652.7	15.3			
FM (30°-60°)	39250.7	62.0			
FH (60°-80°)	2394.6	3.8			G2/5000
FVH (80°-90°)	88.5	0.1			G1/100
BL (0°-30°)	3821.1	6.0	B4/5000		
BM (30°-60°)	6153.2	9.7	B4/8500		
BH (60°-80°)	1812.3	2.9	B3/2500		G3/2500
BVH (80°-90°)	108.9	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1
2.5°	21003.1	20598.9	20644.7	20354.9	20042.2	19950.7	19630.4	19325.3	19096.5	18608.4	18158.5
5°	22955.5	22833.4	22650.4	22421.6	22185.2	21605.6	21277.7	20896.3	20057.4	19302.4	18555.0
7.5°	23237.6	23214.8	23313.9	23313.9	23397.8	23176.6	22711.4	22444.5	21552.2	20324.4	18936.3
10°	21254.8	21323.4	21803.9	22429.2	23298.6	23901.1	23824.9	23756.2	22780.1	21102.2	19386.3
12.5°	19676.1	19523.6	19805.8	20339.6	21643.7	23100.4	24084.2	24091.8	23840.1	22345.3	19714.2
15°	18783.8	18890.6	18966.9	19218.5	20202.3	21887.8	23619.0	24129.9	25235.8	23222.4	20232.8
17.5°	19355.8	18997.4	18982.1	19043.1	19546.5	20812.4	22757.2	23634.2	25998.4	24351.1	20873.5
20°	20103.2	20095.6	19882.0	19805.8	19798.1	20926.8	22192.8	23382.5	26402.6	25815.4	21521.7
22.5°	21414.9	21414.9	21064.1	20896.3	20537.9	21460.7	22269.1	23077.5	27073.7	26822.0	21834.4
25°	23611.3	23252.9	22650.4	22238.6	22032.7	22360.6	23077.5	23802.0	27660.9	27889.7	22482.6
27.5°	25640.0	25075.6	24778.2	24068.9	23794.4	23603.7	24259.6	24991.7	28347.3	29552.3	22833.4
30°	27943.1	27844.0	27310.1	26395.0	25716.2	25365.4	25967.9	26692.4	29605.7	31253.0	23641.8
32.5°	32061.4	31161.5	30437.0	29315.9	28210.0	27462.7	28057.5	28538.0	31695.3	33029.9	24526.5
35°	36507.6	36217.8	34967.0	32946.0	31253.0	30581.9	30932.7	31291.1	34128.1	35744.9	26013.6
37.5°	40877.5	40480.9	39451.4	37750.7	35691.5	34326.4	34578.1	34997.5	36858.4	39405.6	27828.7
40°	44019.6	43531.5	43012.9	42761.2	40717.3	38848.9	38704.0	38810.7	40549.6	42837.5	29842.1
42.5°	44248.4	44850.9	45011.0	46025.3	45544.9	44011.9	43119.7	43142.5	44073.0	46231.2	31878.3
45°	43767.9	43211.2	44393.3	47161.6	48747.9	49464.8	47962.4	47771.8	46254.1	48198.8	32892.7
47.5°	38726.9	38879.4	40877.5	45255.1	49838.5	53041.6	52690.8	52057.8	47420.9	48130.2	32732.5
50°	30612.4	31535.2	33388.4	38841.2	46788.0	53606.0	55672.7	54208.4	46726.9	46238.9	31100.5
52.5°	20385.4	20766.7	21986.9	29026.1	37621.0	47916.7	52240.8	52576.4	46086.3	43760.3	29033.7
55°	9075.4	9044.9	10760.8	15161.3	23603.7	36461.8	42685.0	44728.8	43623.0	41235.9	27020.3
57.5°	3843.7	3973.4	4675.0	6551.1	11607.4	22002.2	28919.3	30711.5	33548.5	33861.2	20728.6
60°	2600.6	2615.9	2806.5	3279.4	4858.0	10333.8	15168.9	17319.6	19348.2	19210.9	10997.3
62.5°	2043.9	2097.3	2242.2	2432.8	2882.8	4690.2	6787.5	7984.8	8114.5	6825.6	4171.6
65°	1746.4	1754.1	1899.0	2059.1	2257.4	2730.3	3271.7	3332.7	3370.9	3248.8	3065.8
67.5°	1441.4	1456.6	1571.0	1754.1	1937.1	2089.6	2242.2	2318.4	2493.8	2837.0	2791.3
70°	1144.0	1166.8	1266.0	1418.5	1586.3	1677.8	1868.5	1937.1	2097.3	2364.2	2471.0
72.5°	869.4	877.0	960.9	1067.7	1220.2	1311.7	1471.9	1548.2	1654.9	1883.7	1982.9
75°	625.4	648.2	709.3	762.6	785.5	846.5	999.1	1082.9	1235.5	1334.6	1342.2
77.5°	327.9	343.2	358.4	358.4	434.7	549.1	648.2	694.0	800.8	877.0	838.9
80°	129.6	137.3	175.4	236.4	305.1	396.6	465.2	488.1	579.6	625.4	648.2
82.5°	76.3	83.9	114.4	167.8	221.2	282.2	335.6	358.4	419.5	472.8	488.1
85°	38.1	45.8	68.6	106.8	144.9	175.4	167.8	160.2	160.2	152.5	160.2
87.5°	15.3	15.3	22.9	22.9	22.9	30.5	38.1	38.1	38.1	45.8	45.8
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°	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1	17838.1
2.5°	17861.0	17556.0	17273.8	16755.2	16190.8	16030.7	15374.8	15138.4	14970.6	14772.3	14711.3
5°	17952.5	17548.3	16640.8	15596.0	14764.7	13697.0	12995.4	12240.4	11691.3	11554.0	11515.9
7.5°	18143.2	17449.2	15885.8	14307.1	12606.4	11157.4	10051.6	9456.7	8930.5	8900.0	8846.6
10°	18356.7	17151.8	15062.1	12583.6	10410.0	9067.8	8404.3	8145.0	8015.3	7984.8	7969.6
12.5°	18532.1	17090.8	14139.3	10905.8	8854.2	8045.9	7847.6	7824.7	7878.1	7893.3	7923.8
15°	18608.4	16846.7	13025.9	9403.3	7885.7	7588.3	7672.2	7763.7	7801.8	7900.9	7824.7
17.5°	18753.3	16534.0	11653.1	8213.6	7344.2	7397.6	7542.5	7649.3	7710.3	7778.9	7679.8
20°	18829.6	16251.9	10364.3	7504.4	7153.6	7252.7	7451.0	7534.9	7611.1	7641.7	7527.3
22.5°	18760.9	15672.2	9227.9	6932.4	6970.5	7100.2	7275.6	7367.1	7321.3	7199.3	7130.7
25°	18577.9	14856.2	8045.9	6566.3	6711.2	6940.0	7077.3	7008.7	6924.8	6856.1	6833.3
27.5°	18570.3	13857.2	7191.7	6230.8	6490.1	6802.7	6757.0	6696.0	6734.1	6680.7	6619.7
30°	18608.4	12888.6	6490.1	6040.1	6329.9	6482.4	6535.8	6474.8	6520.6	6421.4	6451.9
32.5°	18410.1	11942.9	6032.5	5818.9	6139.3	6131.6	6307.0	6352.8	6246.0	6040.1	6070.6
35°	18494.0	11180.3	5643.5	5719.8	5925.7	5925.7	6063.0	6009.6	5727.4	5605.4	5635.9
37.5°	19073.6	10432.9	5452.9	5582.5	5719.8	5780.8	5735.1	5506.3	5437.6	5437.6	5452.9
40°	19622.7	9792.3	5338.5	5552.0	5529.1	5567.3	5231.7	5254.6	5254.6	5262.2	5224.1
42.5°	20110.8	9357.6	5247.0	5369.0	5407.1	5208.8	5002.9	4980.0	5033.4	5025.8	4995.3
45°	20286.2	8999.2	5117.3	5163.1	5193.6	4865.6	4766.5	4720.7	4781.8	4804.6	4835.1
47.5°	19615.1	8701.7	4972.4	4880.9	4819.9	4606.3	4476.7	4392.8	4469.1	4598.7	4629.2
50°	18753.3	8312.8	4743.6	4568.2	4438.6	4347.0	4255.5	4171.6	4225.0	4316.5	4293.7
52.5°	17479.7	7702.7	4453.8	4270.8	4049.6	4072.5	3988.6	3942.8	3973.4	3973.4	3950.5
55°	15664.6	6329.9	3965.7	3836.1	3653.0	3714.1	3729.3	3668.3	3607.3	3660.7	3614.9
57.5°	10692.2	4469.1	3538.6	3538.6	3355.6	3439.5	3431.9	3287.0	3142.1	3157.3	3126.8
60°	6185.0	3561.5	3264.1	3233.6	3042.9	3111.6	3126.8	3027.7	2806.5	2821.8	2791.3
62.5°	3515.8	3042.9	2852.3	2806.5	2768.4	2829.4	2829.4	2699.7	2509.1	2524.3	2493.8
65°	2989.5	2821.8	2547.2	2539.6	2524.3	2539.6	2478.6	2341.3	2173.5	2104.9	2112.5
67.5°	2715.0	2608.2	2341.3	2272.7	2226.9	2219.3	2104.9	1975.2	1899.0	1838.0	1830.3
70°	2379.4	2295.5	2097.3	2005.7	1960.0	1853.2	1738.8	1654.9	1548.2	1517.7	1548.2
72.5°	1883.7	1876.1	1799.8	1700.7	1601.5	1517.7	1418.5	1304.1	1205.0	1182.1	1128.7
75°	1304.1	1319.4	1334.6	1319.4	1235.5	1128.7	1014.3	922.8	800.8	732.1	716.9
77.5°	854.2	877.0	899.9	869.4	816.0	716.9	640.6	526.2	434.7	381.3	373.7
80°	625.4	655.9	671.1	648.2	587.2	511.0	427.1	335.6	266.9	221.2	221.2
82.5°	480.5	511.0	526.2	488.1	427.1	366.1	305.1	236.4	183.0	144.9	137.3
85°	167.8	160.2	190.7	198.3	236.4	221.2	183.0	137.3	106.8	76.3	68.6
87.5°	45.8	45.8	53.4	53.4	45.8	38.1	38.1	38.1	30.5	22.9	22.9
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)