

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: P534311

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534311  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
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-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52316 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G1

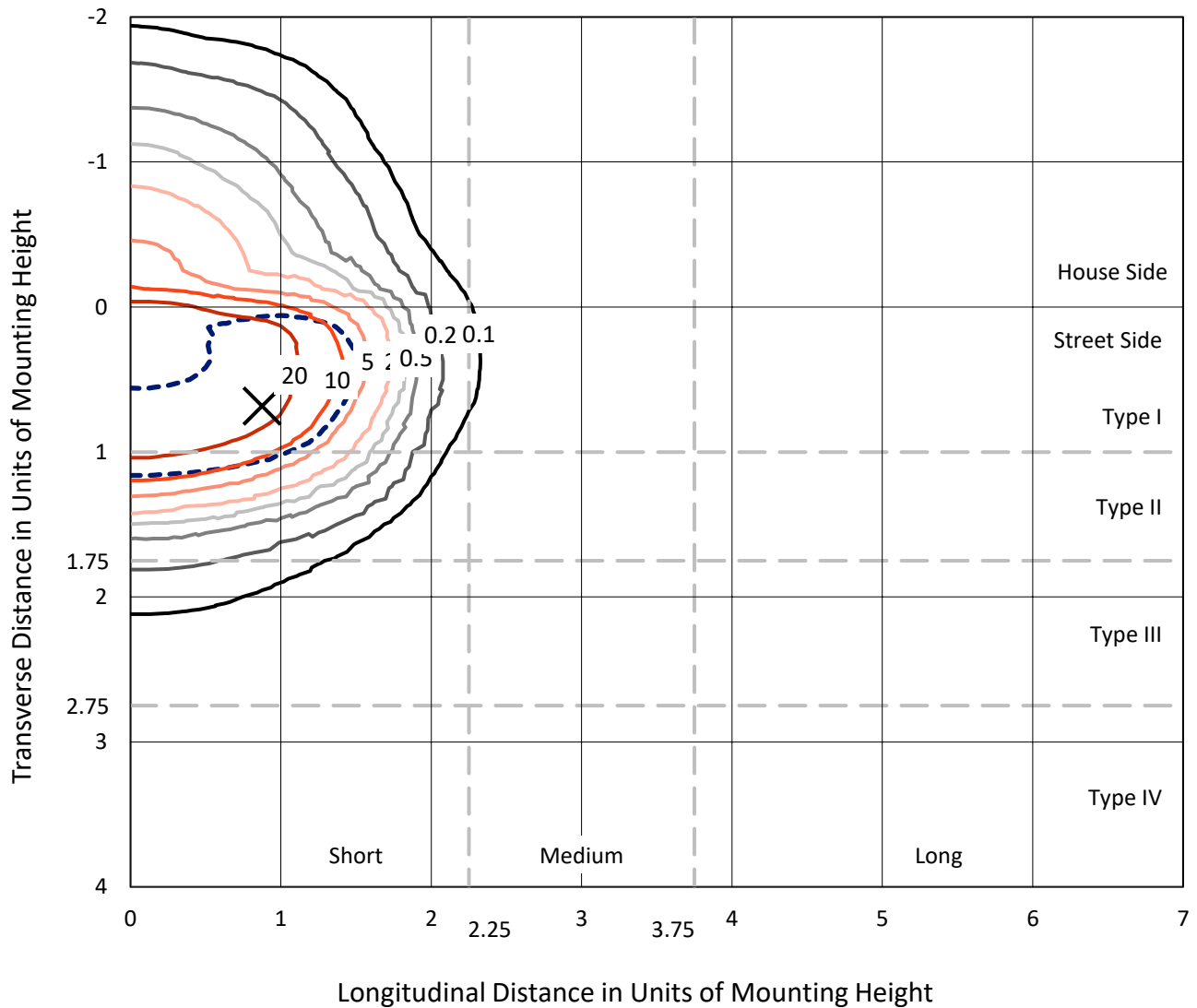
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

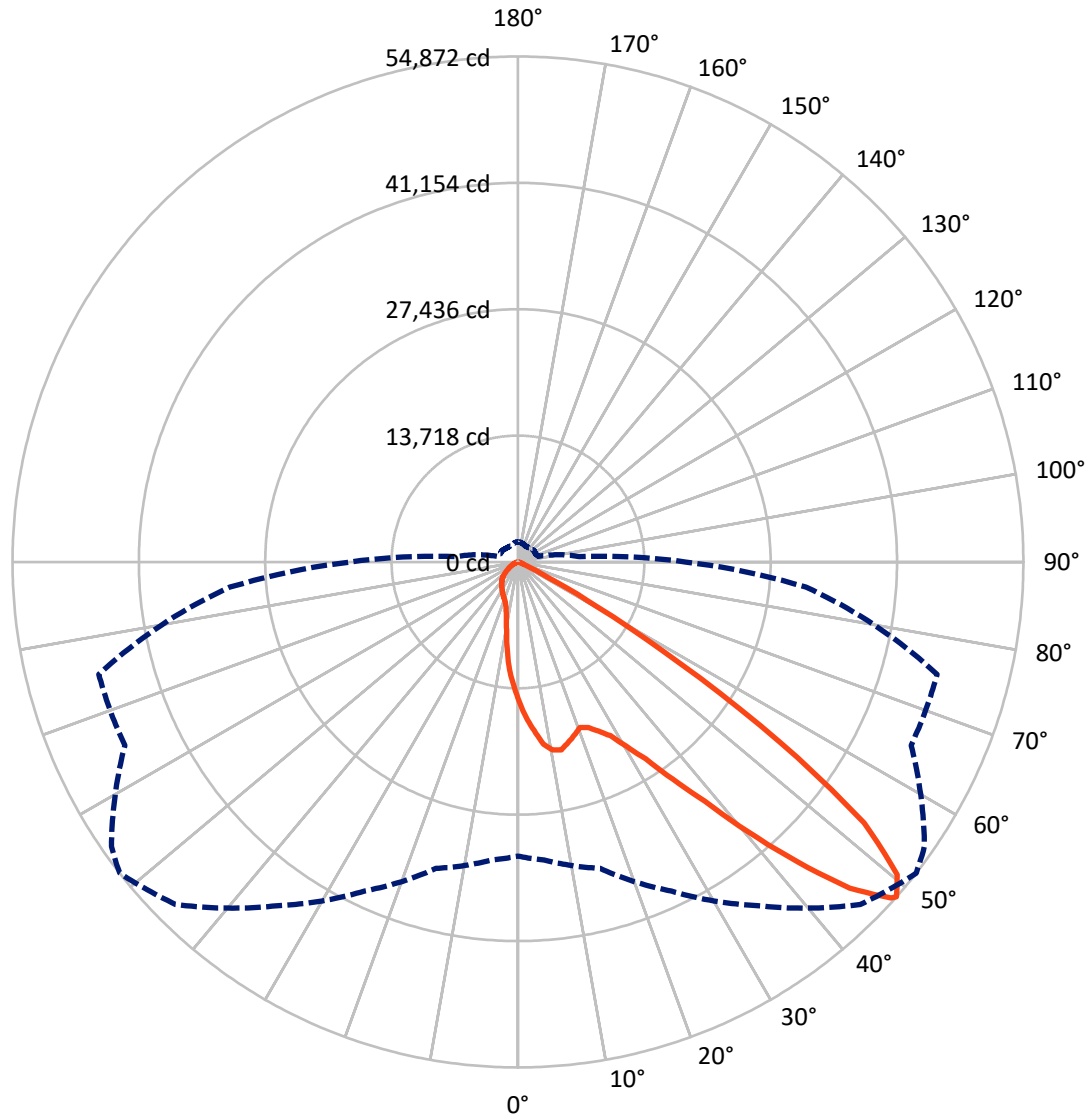
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 33.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 48-Deg Vertical

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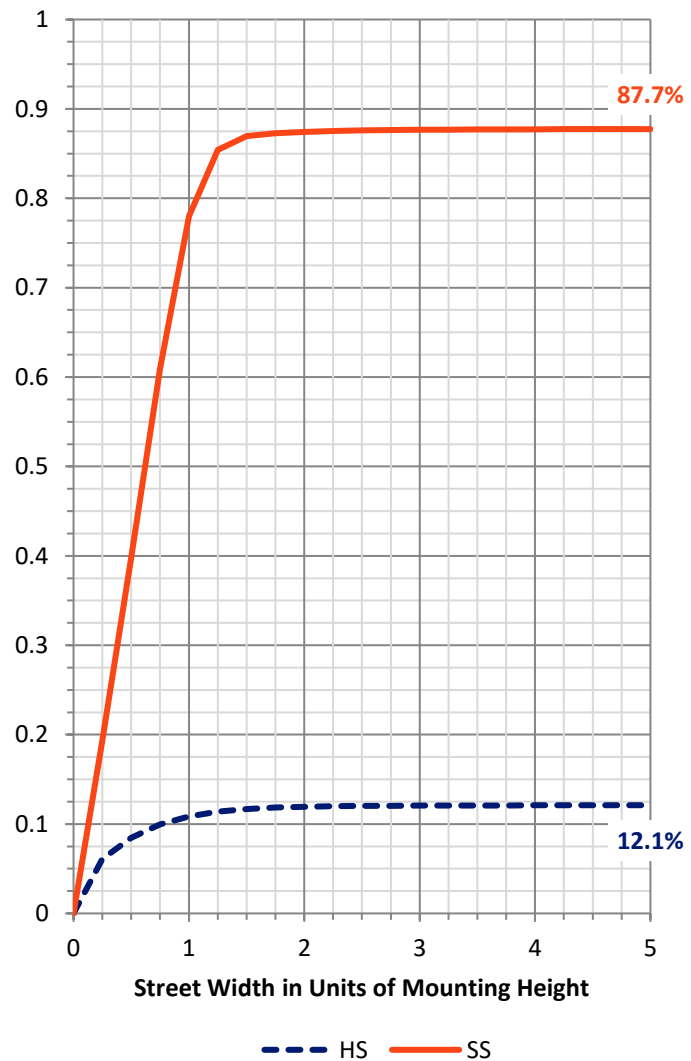
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6369.9	0.0	6369.9
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	45946.1	0.0	45946.1
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	52316.0	0.0	52316.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1382.8	2.6
10°-20°	3613.8	6.9
20°-30°	6170.2	11.8
30°-40°	11362.4	21.7
40°-50°	17645.9	33.7
50°-60°	10619.8	20.3
60°-70°	1228.3	2.3
70°-80°	237.8	0.5
80°-90°	55.0	0.1
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°	52316.0	100.0
0°-180°	52316.0	100.0

**Coefficient of Utilization**



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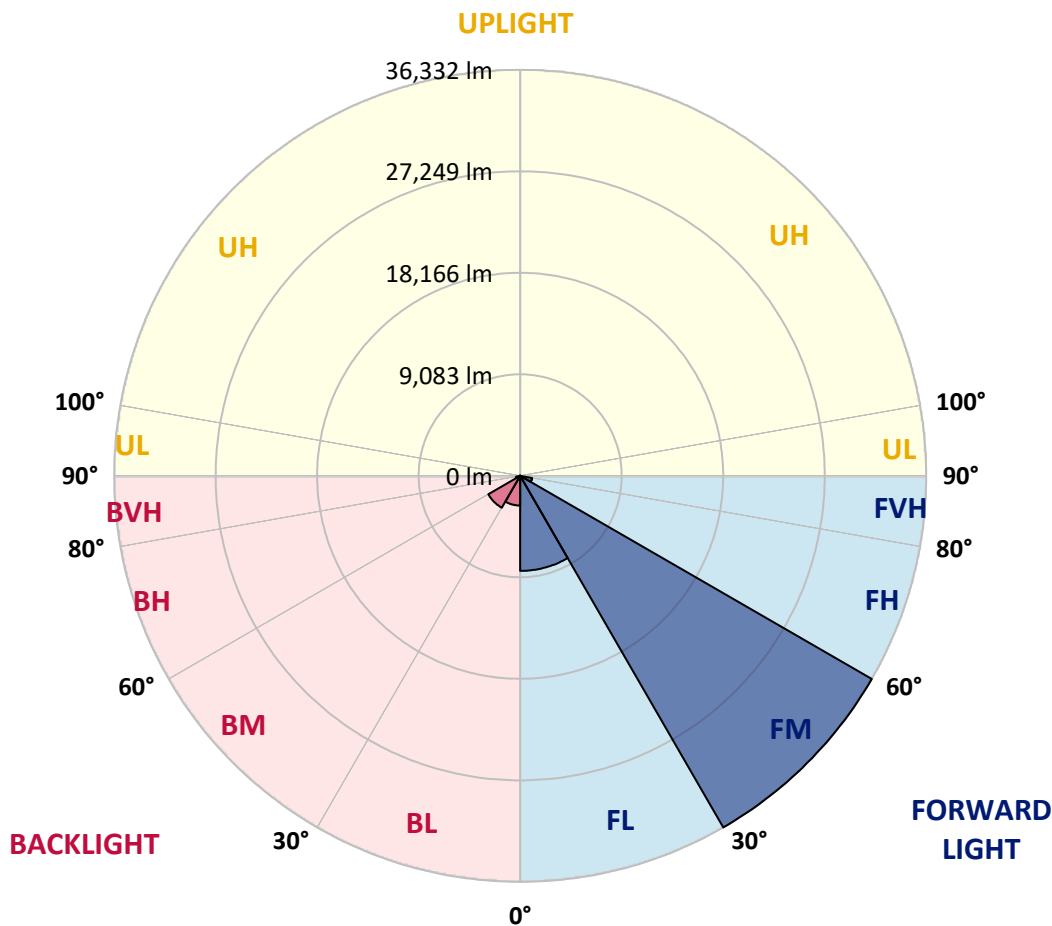
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8505.9	16.3			
FM (30°-60°)	36332.4	69.4			
FH (60°-80°)	1081.6	2.1			G1/1800
FVH (80°-90°)	26.2	0.1			G1/100
BL (0°-30°)	2660.9	5.1	B4/5000		
BM (30°-60°)	3295.7	6.3	B3/5000		
BH (60°-80°)	384.5	0.7	B1/500		G1/500
BVH (80°-90°)	28.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	15108.0	15108.0	15108.0	15108.0	15108.0	15108.0	15108.0	15108.0	15108.0	15108.0	15108.0
2.5°	18311.1	17891.6	17929.8	17655.2	17495.1	17235.8	16885.0	16816.3	16435.0	15916.4	15390.2
5°	19958.4	19859.3	19988.9	19592.3	19607.6	19180.5	18356.9	18372.1	17495.1	16648.5	15832.5
7.5°	20065.2	19836.4	19966.0	20316.9	20522.8	20446.5	19981.3	19577.1	18745.8	17502.7	16313.0
10°	17967.9	18402.6	18539.9	19119.5	19943.2	20812.6	20759.2	20782.1	20088.1	18463.6	16724.8
12.5°	16709.5	16419.7	16885.0	17235.8	18478.9	20164.3	20934.6	21102.4	21155.8	19394.1	17136.6
15°	16137.6	16137.6	16213.8	16313.0	17212.9	18768.7	20339.7	20827.8	21979.4	20614.3	17784.9
17.5°	16496.0	16480.8	16587.5	16381.6	16717.2	17914.5	19790.6	20347.4	22902.2	21811.6	18295.8
20°	17586.6	17640.0	17571.3	16976.5	16999.4	17899.3	19180.5	20057.6	23527.6	22848.8	18974.6
22.5°	19104.3	19134.8	18745.8	18097.6	17906.9	18349.2	19531.3	20202.5	24030.9	24091.9	19180.5
25°	20858.3	20736.3	20660.0	19744.9	19165.3	19546.6	20324.5	20713.4	24343.6	25159.6	19767.8
27.5°	23291.2	23047.1	22581.9	21765.9	21338.8	20797.3	21354.1	21994.7	25235.9	26654.4	20408.4
30°	26883.2	26669.7	25762.1	24709.7	23588.6	23054.7	23230.2	23581.0	26845.1	28385.6	21254.9
32.5°	32290.4	31840.4	30528.7	28522.9	26997.6	25525.7	25480.0	25853.7	28286.5	30780.3	22261.6
35°	38246.6	38109.4	36179.9	34113.1	31161.7	28889.0	28927.1	29125.4	31047.3	33922.4	23581.0
37.5°	42204.8	42959.8	41731.9	39512.6	37034.0	33785.2	32961.5	33030.1	34837.6	37644.1	25960.4
40°	45263.0	44622.3	44767.2	44248.6	42555.6	40343.9	38521.2	38162.7	39222.8	41762.4	28324.6
42.5°	43928.3	43958.8	44851.1	46079.0	46498.4	46338.3	44477.4	43798.7	42975.0	45133.3	30574.4
45°	40160.9	40946.4	42105.6	45354.5	48206.8	50883.7	50517.6	49388.9	45568.0	47802.6	31870.9
47.5°	34151.2	34120.7	36019.7	40244.8	46582.3	52851.3	54513.8	53720.7	47406.0	47505.1	31604.0
48°	31931.9	32481.0	34441.0	39413.5	45552.8	52561.5	54872.3	53873.2	47093.3	47108.6	31375.2
50°	23603.9	23504.7	25945.2	32046.3	40687.1	49388.9	53362.3	54140.1	47085.7	45102.8	29773.6
52.5°	12469.2	12896.3	14673.3	20149.1	28767.0	40420.2	47070.4	48283.0	45423.1	41823.4	27470.5
55°	5300.4	4789.4	6154.5	9098.4	16183.3	27005.2	34532.6	37232.3	38406.8	37011.1	24030.9
57.5°	1891.4	2066.8	2379.5	3424.3	6802.8	14780.1	20591.4	22688.7	26608.7	27157.8	16374.0
60°	1212.6	1235.5	1334.6	1571.0	2554.9	5697.0	9769.5	11439.7	13216.6	13643.7	7641.7
62.5°	938.1	945.7	991.4	1029.6	1212.6	2211.7	3668.3	4347.1	4514.9	3881.9	2005.8
65°	785.5	793.2	808.4	808.4	861.8	1037.2	1281.2	1410.9	1372.8	1357.5	1136.3
67.5°	602.5	617.7	648.2	648.2	678.8	633.0	709.3	755.0	854.2	1037.2	968.6
70°	472.8	480.5	503.3	518.6	518.6	457.6	511.0	556.7	625.4	770.3	762.6
72.5°	366.1	381.3	396.6	396.6	373.7	312.7	366.1	404.2	450.0	533.9	518.6
75°	282.2	282.2	289.8	236.4	183.0	160.2	221.2	266.9	335.6	350.8	289.8
77.5°	76.3	83.9	76.3	68.6	76.3	114.4	144.9	167.8	213.5	213.5	190.7
80°	0.0	7.6	22.9	45.8	76.3	106.8	129.6	144.9	167.8	183.0	175.4
82.5°	0.0	7.6	22.9	45.8	68.6	83.9	114.4	122.0	137.3	160.2	160.2
85°	0.0	7.6	15.3	30.5	45.8	53.4	53.4	45.8	45.8	38.1	30.5
87.5°	0.0	0.0	7.6	15.3	15.3	22.9	22.9	22.9	22.9	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15108.0	15108.0	15108.0	15108.0	15108.0	15108.0	15108.0	15108.0	15108.0	15108.0	15108.0
2.5°	15184.3	14947.8	14589.4	14025.0	13483.6	13132.7	12797.2	12423.5	12217.6	12202.3	12087.9
5°	15367.3	14833.4	13979.3	13010.7	11973.5	11081.2	10181.3	9594.1	9067.8	8778.0	8724.7
7.5°	15466.4	14772.4	13392.0	11767.6	9998.3	8541.6	7534.9	6795.2	6505.4	6291.8	6284.2
10°	15672.3	14665.7	12515.0	10120.3	7931.5	6459.6	5765.6	5430.0	5269.9	5208.9	5117.3
12.5°	15824.9	14467.4	11615.1	8427.2	6268.9	5353.8	5048.7	4972.4	4980.1	5010.6	4972.4
15°	16038.4	14292.0	10402.5	6917.2	5262.2	4819.9	4819.9	4835.2	4941.9	4957.2	4949.6
17.5°	16023.2	13948.8	9151.7	5697.0	4652.1	4591.1	4614.0	4758.9	4827.5	4850.4	4797.0
20°	16206.2	13628.5	7862.9	4865.7	4308.9	4400.5	4553.0	4591.1	4675.0	4690.3	4629.3
22.5°	16152.8	12827.7	6665.5	4209.8	4049.6	4225.1	4377.6	4423.3	4400.5	4354.7	4347.1
25°	16053.7	12141.3	5567.3	3775.1	3859.0	4049.6	4194.5	4110.7	4064.9	4072.5	4080.1
27.5°	15878.3	11271.9	4659.8	3470.0	3599.7	3881.9	3874.2	3843.7	3889.5	3851.4	3889.5
30°	15847.8	10402.5	3912.4	3195.5	3409.0	3614.9	3630.2	3683.6	3737.0	3668.3	3737.0
32.5°	15893.5	9449.2	3378.5	3027.7	3294.6	3302.3	3470.0	3523.4	3485.3	3332.8	3348.0
35°	16244.3	8717.0	2989.6	2936.2	3111.6	3119.2	3279.4	3210.7	3043.0	2951.4	3004.8
37.5°	16984.1	8106.9	2806.5	2852.3	2867.5	2966.7	2974.3	2837.0	2852.3	2844.7	2875.2
40°	17929.8	7641.7	2676.9	2776.0	2760.8	2829.4	2554.9	2631.1	2699.8	2722.6	2737.9
42.5°	18578.0	7306.1	2593.0	2654.0	2623.5	2501.5	2348.9	2425.2	2478.6	2562.5	2577.7
45°	18867.8	7039.2	2493.8	2440.5	2440.5	2219.3	2158.3	2173.5	2295.6	2387.1	2371.8
47.5°	18395.0	6779.9	2318.4	2158.3	2211.7	2028.6	1960.0	1960.0	2089.6	2204.0	2181.2
48°	18212.0	6673.1	2326.1	2097.3	2135.4	1998.1	1929.5	1914.2	2059.1	2165.9	2165.9
50°	17304.4	6276.6	2127.8	1929.5	1853.2	1838.0	1792.2	1807.5	1899.0	1998.1	1998.1
52.5°	15535.1	5422.4	1799.8	1654.9	1517.7	1609.2	1632.1	1601.6	1647.3	1738.8	1731.2
55°	12965.0	4164.0	1441.4	1372.8	1266.0	1365.1	1410.9	1372.8	1327.0	1395.6	1395.6
57.5°	8305.2	2242.2	1151.6	1166.8	1060.1	1159.2	1197.4	1105.8	1021.9	1075.3	1067.7
60°	3744.6	1342.3	945.7	922.8	854.2	968.6	1029.6	922.8	808.4	846.5	884.7
62.5°	1403.3	953.3	716.9	701.6	686.4	793.2	823.7	739.8	625.4	648.2	655.9
65°	1029.6	838.9	572.0	518.6	549.1	625.4	610.1	526.2	450.0	450.0	465.2
67.5°	877.0	732.1	465.2	404.2	404.2	411.8	381.3	335.6	312.7	327.9	343.2
70°	686.4	579.6	366.1	312.7	282.2	251.7	221.2	213.5	190.7	213.5	205.9
72.5°	442.3	388.9	282.2	236.4	213.5	175.4	144.9	137.3	114.4	106.8	106.8
75°	236.4	236.4	221.2	190.7	167.8	137.3	114.4	91.5	61.0	45.8	45.8
77.5°	167.8	183.0	198.3	183.0	152.5	114.4	91.5	61.0	30.5	15.3	15.3
80°	160.2	183.0	198.3	175.4	152.5	114.4	83.9	45.8	22.9	7.6	7.6
82.5°	144.9	167.8	183.0	160.2	137.3	99.1	76.3	45.8	22.9	7.6	7.6
85°	30.5	38.1	45.8	45.8	53.4	68.6	53.4	38.1	15.3	7.6	7.6
87.5°	22.9	22.9	22.9	22.9	22.9	22.9	15.3	15.3	7.6	7.6	7.6
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)