

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: P190978

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61831.2 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 558
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: 25 FT

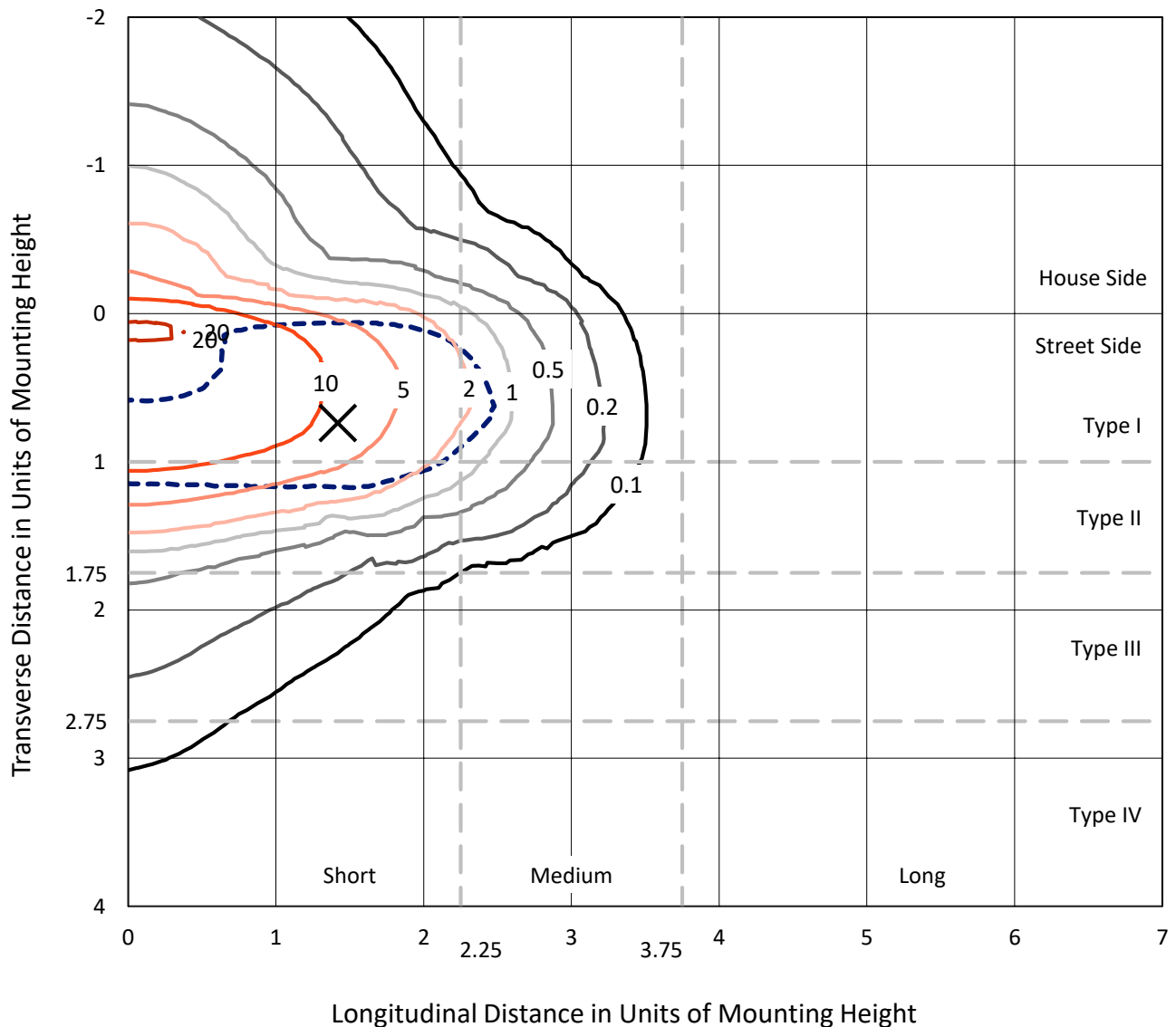


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Iso-Footcandle Lines of Horizontal Illumination

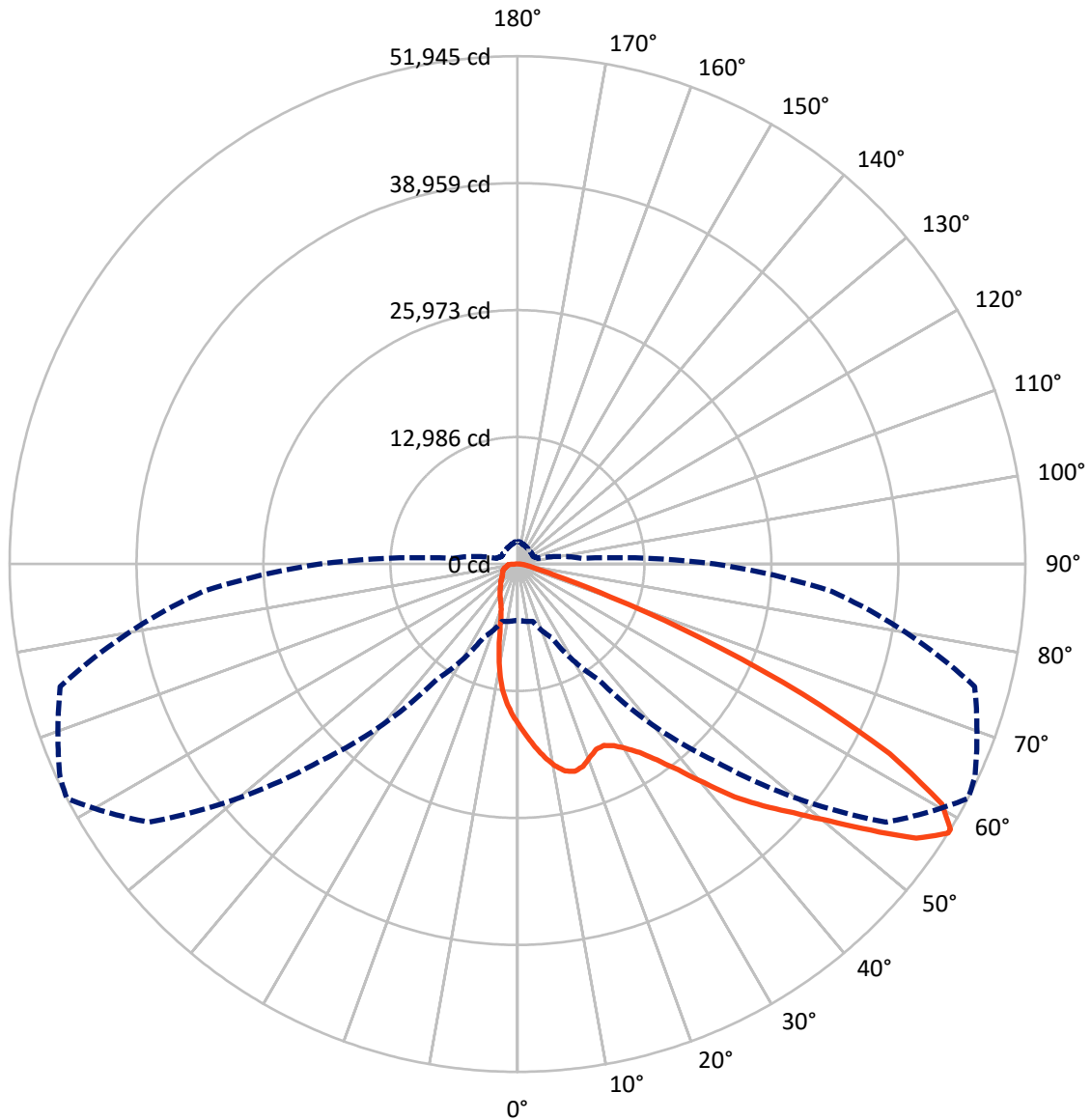
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 22.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9429.5	0.0	9429.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	52401.7	0.0	52401.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	61831.2	0.0	61831.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1468.9	2.4
10°-20°	3754.7	6.1
20°-30°	6069.7	9.8
30°-40°	9635.6	15.6
40°-50°	14098.8	22.8
50°-60°	14746.2	23.8
60°-70°	8712.1	14.1
70°-80°	2454.2	4.0
80°-90°	891.0	1.4
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°	61831.2	100.0
0°-180°	61831.2	100.0



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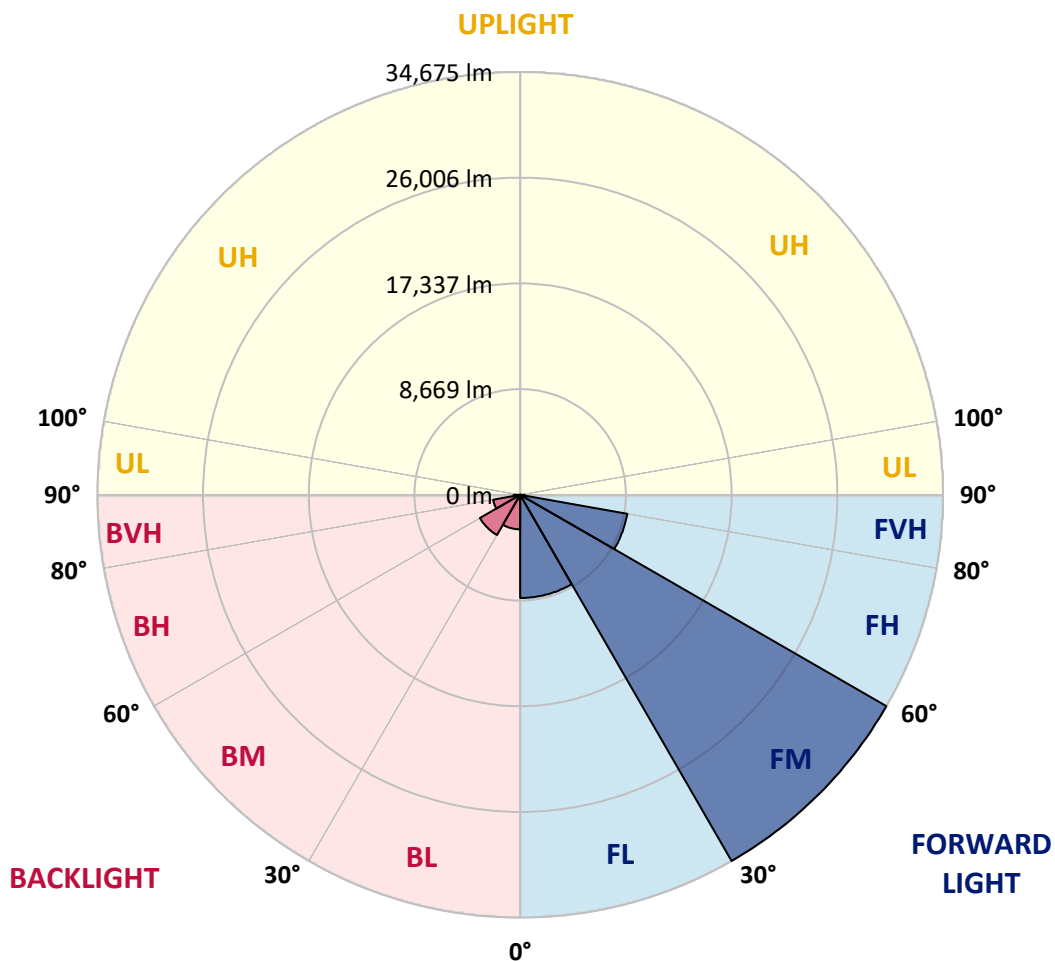
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8459.3	13.7			
FM	(30°-60°)	34674.6	56.1			
FH	(60°-80°)	8916.3	14.4			G4/12000
FVH	(80°-90°)	351.5	0.6			G3/500
BL	(0°-30°)	2834.0	4.6	B4/5000		
BM	(30°-60°)	3806.0	6.2	B3/5000		
BH	(60°-80°)	2250.0	3.6	B3/2500		G3/2500
BVH	(80°-90°)	539.5	0.9			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	16424.2	16424.2	16424.2	16424.2	16424.2	16424.2	16424.2	16424.2	16424.2	16424.2	16424.2
2.5°	18768.1	18616.6	18520.5	18436.1	18325.4	18089.7	17772.2	17571.3	17469.4	17123.0	16712.5
5°	20608.2	20474.3	20375.2	20261.7	20063.6	19694.0	19181.5	18773.8	18573.0	17880.0	17058.9
7.5°	20177.2	20232.5	20404.3	20704.2	20960.5	20911.0	20453.8	19935.6	19670.6	18706.9	17460.7
10°	17580.1	17676.2	17973.1	18674.9	19810.4	20975.0	21330.3	20972.1	20704.2	19525.1	17874.2
12.5°	17058.9	17056.1	17079.3	17265.7	17941.1	19580.4	21359.3	21720.4	21560.2	20305.4	18296.4
15°	17271.5	17277.3	17259.8	17338.4	17548.1	18197.4	20468.4	22008.6	22122.1	21091.5	18733.1
17.5°	17830.5	17815.9	17749.0	17749.0	17824.7	18078.0	19420.2	21740.8	22264.8	21787.3	19117.4
20°	18768.1	18701.1	18523.5	18360.4	18278.9	18415.8	18989.3	21123.5	22017.4	22395.9	19434.7
22.5°	19903.6	19851.2	19562.9	19213.5	18931.0	18928.2	19210.6	20584.8	21589.4	22969.4	19702.6
25°	21371.0	21286.6	20858.6	20299.5	19804.5	19615.3	19694.0	20558.7	21356.5	23592.5	19941.4
27.5°	23094.6	22940.3	22433.7	21627.2	20899.3	20517.9	20404.3	21033.2	21568.9	24364.1	20273.4
30°	25185.2	25007.6	24358.3	23307.2	22279.4	21653.4	21411.8	21874.7	22273.5	25304.5	20806.1
32.5°	27563.9	27307.7	26556.5	25397.7	24046.7	23091.7	22698.7	22986.9	23304.3	26437.1	21472.9
35°	30851.1	30545.3	29459.3	27860.9	26335.3	25022.1	24393.2	24602.8	24911.4	28125.8	22436.6
37.5°	33093.0	32956.1	32234.1	30731.7	29072.1	27561.0	26588.5	26710.8	26885.5	30236.7	23671.1
40°	33072.6	33128.0	33142.5	33157.0	32027.4	30580.3	29535.0	29407.0	29372.0	32554.4	25074.5
42.5°	31415.9	31643.0	32376.7	33864.6	34551.7	33887.8	32929.9	32560.2	32376.7	35285.4	26562.4
45°	28879.9	29002.2	30376.5	33282.2	35844.4	37163.4	36438.4	35273.8	34941.9	37795.2	27796.8
47.5°	27572.6	27706.6	28571.3	31739.1	35829.9	39810.0	40229.3	38010.6	37416.7	39978.9	28862.5
50°	24460.2	24739.7	25828.6	29054.7	34522.5	41027.1	44191.9	41271.6	40042.9	42104.3	29931.0
52.5°	18744.8	19175.6	20395.6	24640.6	31206.2	40424.4	47362.6	45225.6	43490.2	44305.4	30848.2
55°	11823.9	12144.2	13169.1	17402.5	24963.9	37288.6	48565.1	49502.6	47959.5	46390.2	31643.0
57.5°	6428.7	6571.4	6955.8	9608.2	16237.9	30356.1	46812.4	51936.7	51296.2	48160.4	32242.8
58°	5753.3	5849.3	6088.1	8327.1	14400.7	28460.6	46034.9	51945.4	51625.2	48419.5	32289.4
60°	4268.4	4218.9	4006.3	4751.7	8015.5	19661.9	41335.7	49866.6	50807.0	48736.9	32062.2
62.5°	3750.1	3630.8	3196.9	3147.4	3898.6	9057.9	31628.5	42715.8	44937.3	46925.9	30682.2
65°	3523.0	3394.9	2835.9	2655.4	2812.6	3831.7	18631.2	32036.1	34822.5	41434.6	27153.4
67.5°	3354.2	3188.1	2605.9	2358.4	2370.1	2533.0	7468.2	20177.2	23313.0	31459.6	21120.6
70°	3191.1	3010.5	2410.8	2125.5	2058.5	2003.1	2969.8	10100.3	12944.8	19871.5	13466.0
72.5°	3016.4	2838.8	2239.0	1942.1	1811.0	1627.6	1939.1	4131.5	5770.8	9401.5	6108.4
75°	2763.1	2603.0	2067.2	1779.0	1592.6	1348.0	1464.6	2157.5	2588.4	3744.3	2943.6
77.5°	2451.5	2320.6	1875.1	1645.0	1412.1	1094.8	1126.8	1496.6	1659.6	2142.9	1749.9
80°	1761.5	1808.1	1668.3	1479.1	1257.8	888.0	864.7	1091.8	1179.2	1377.2	1138.4
82.5°	1237.5	1263.7	1380.1	1208.3	1039.4	698.8	637.6	768.6	821.0	905.5	614.4
85°	853.1	824.0	946.2	841.5	751.2	465.9	436.7	521.2	553.2	561.9	317.3
87.5°	512.4	512.4	547.4	451.3	404.7	241.6	235.8	297.0	317.3	302.8	174.7
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°	16424.2	16424.2	16424.2	16424.2	16424.2	16424.2	16424.2	16424.2	16424.2	16424.2	16424.2
2.5°	16467.9	16261.1	15821.5	15469.2	15023.8	14560.8	14301.7	14025.1	13835.8	13698.9	13917.3
5°	16593.1	16170.9	15262.5	14400.7	13448.5	12458.6	11707.5	11008.7	10522.5	10219.7	10505.0
7.5°	16791.0	16141.8	14694.7	13221.4	11512.4	9864.4	8391.2	7468.2	6929.6	6664.6	6830.5
10°	17018.2	16095.2	14028.0	11623.0	9177.3	7101.3	6000.7	5628.1	5505.8	5456.3	5479.5
12.5°	17207.5	15996.2	13209.9	9689.7	6891.7	5607.7	5290.3	5281.6	5307.8	5313.6	5322.4
15°	17341.4	15850.6	11995.7	7674.9	5511.7	5109.8	5092.4	5144.7	5194.2	5214.6	5226.3
17.5°	17431.6	15550.7	10624.4	6067.7	4938.0	4868.1	4908.9	4975.8	5028.3	5042.8	5054.5
20°	17422.9	15111.1	8990.9	5060.3	4626.5	4626.5	4696.4	4748.7	4751.7	4734.2	4742.9
22.5°	17332.6	14508.4	7407.1	4524.6	4349.9	4399.4	4469.3	4419.8	4216.0	4082.0	4090.8
25°	17181.2	13789.3	6050.2	4184.0	4093.6	4181.0	4160.6	3788.0	3496.9	3365.8	3365.8
27.5°	17047.3	12939.1	5008.0	3886.9	3837.5	3945.2	3584.1	3246.4	3124.1	3063.0	3042.6
30°	16951.2	12021.9	4312.0	3601.6	3595.8	3517.2	3109.6	3016.4	2996.0	2946.5	2929.0
32.5°	16974.5	11093.1	3866.5	3351.2	3371.6	3010.5	2882.5	2902.8	2885.3	2833.0	2809.6
35°	17166.6	10210.9	3575.4	3124.1	3063.0	2719.4	2748.6	2786.4	2780.6	2707.8	2684.4
37.5°	17510.3	9375.2	3383.2	2934.8	2672.9	2573.8	2620.4	2678.7	2664.1	2614.6	2597.2
40°	17871.3	8589.1	3226.0	2786.4	2442.8	2474.8	2515.6	2547.7	2562.2	2576.7	2565.0
42.5°	18223.6	7768.1	3033.9	2635.0	2346.8	2381.6	2399.1	2431.1	2509.8	2565.0	2562.2
45°	18433.2	6996.5	2835.9	2419.5	2271.1	2291.4	2279.7	2343.8	2439.9	2530.2	2533.0
47.5°	18666.1	6396.7	2678.7	2221.5	2198.2	2212.8	2177.9	2241.9	2329.3	2439.9	2451.5
50°	18948.5	6038.6	2553.5	2064.3	2099.2	2099.2	2090.5	2148.7	2271.1	2399.1	2422.4
52.5°	19268.8	5968.7	2448.6	1950.8	2000.3	1997.3	2006.1	2093.5	2227.4	2352.6	2372.9
55°	19659.0	6158.0	2335.1	1866.3	1904.1	1915.8	1944.9	2044.0	2157.5	2300.1	2308.9
57.5°	20113.2	6542.3	2244.9	1799.4	1816.9	1854.7	1901.3	1991.5	2113.8	2271.1	2279.7
58°	20188.9	6623.8	2230.2	1793.5	1799.4	1843.1	1895.4	1982.8	2105.0	2276.9	2285.6
60°	20191.8	6894.6	2198.2	1767.4	1732.4	1805.2	1863.4	1950.8	2090.5	2297.2	2317.6
62.5°	19475.6	6891.7	2175.0	1729.5	1662.5	1752.7	1819.7	1921.6	2076.0	2346.8	2387.5
65°	17149.2	6262.8	2064.3	1671.2	1607.2	1706.2	1781.9	1901.3	2116.7	2562.2	2588.4
67.5°	13413.6	5133.1	1857.6	1589.8	1534.4	1659.6	1758.6	1898.4	2160.4	2611.7	2629.2
70°	8868.7	3840.4	1630.5	1496.6	1458.7	1604.3	1770.2	1997.3	2110.9	2506.8	2460.3
72.5°	4603.2	2696.1	1447.1	1380.1	1371.4	1554.8	1939.1	1985.6	2061.3	2358.4	2300.1
75°	2416.6	1872.1	1286.9	1252.0	1266.5	1543.1	2288.5	1933.3	1997.3	2256.4	2367.1
77.5°	1479.1	1511.1	1150.1	1135.5	1164.6	1508.2	2285.6	1866.3	1904.1	2076.0	2198.2
80°	989.9	1225.8	1045.3	1048.2	1068.6	1380.1	2052.7	1761.5	1790.6	1962.4	2087.6
82.5°	625.9	725.0	949.2	998.7	972.4	1138.4	1744.0	1604.3	1645.0	2244.9	2372.9
85°	317.3	454.2	824.0	960.9	876.4	797.8	1415.0	1406.3	1426.7	1618.8	1691.7
87.5°	145.6	250.4	643.4	838.5	660.9	497.9	1027.8	1042.4	1123.9	1150.1	1150.1
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)