

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: P269713

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51191.1 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

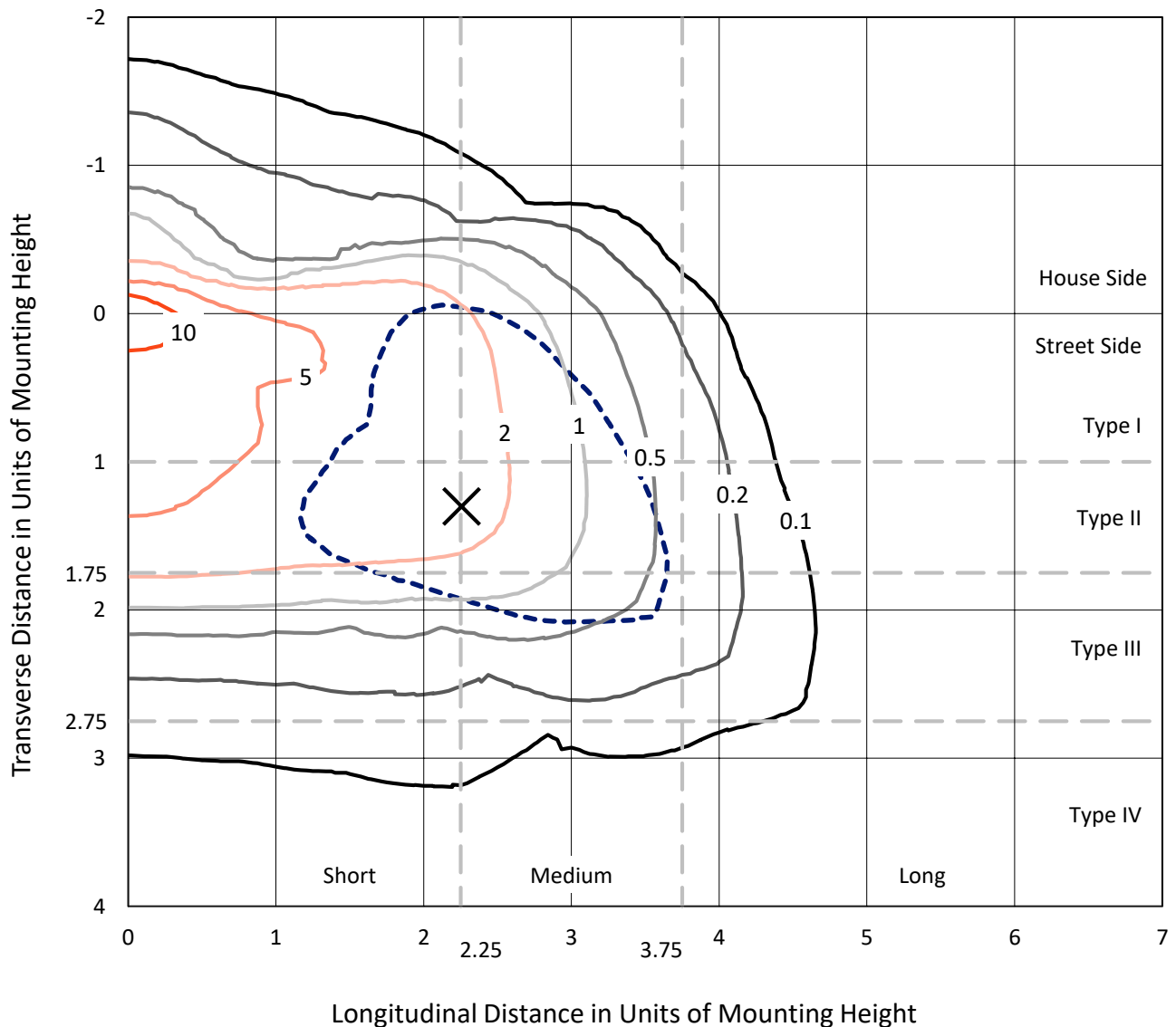
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

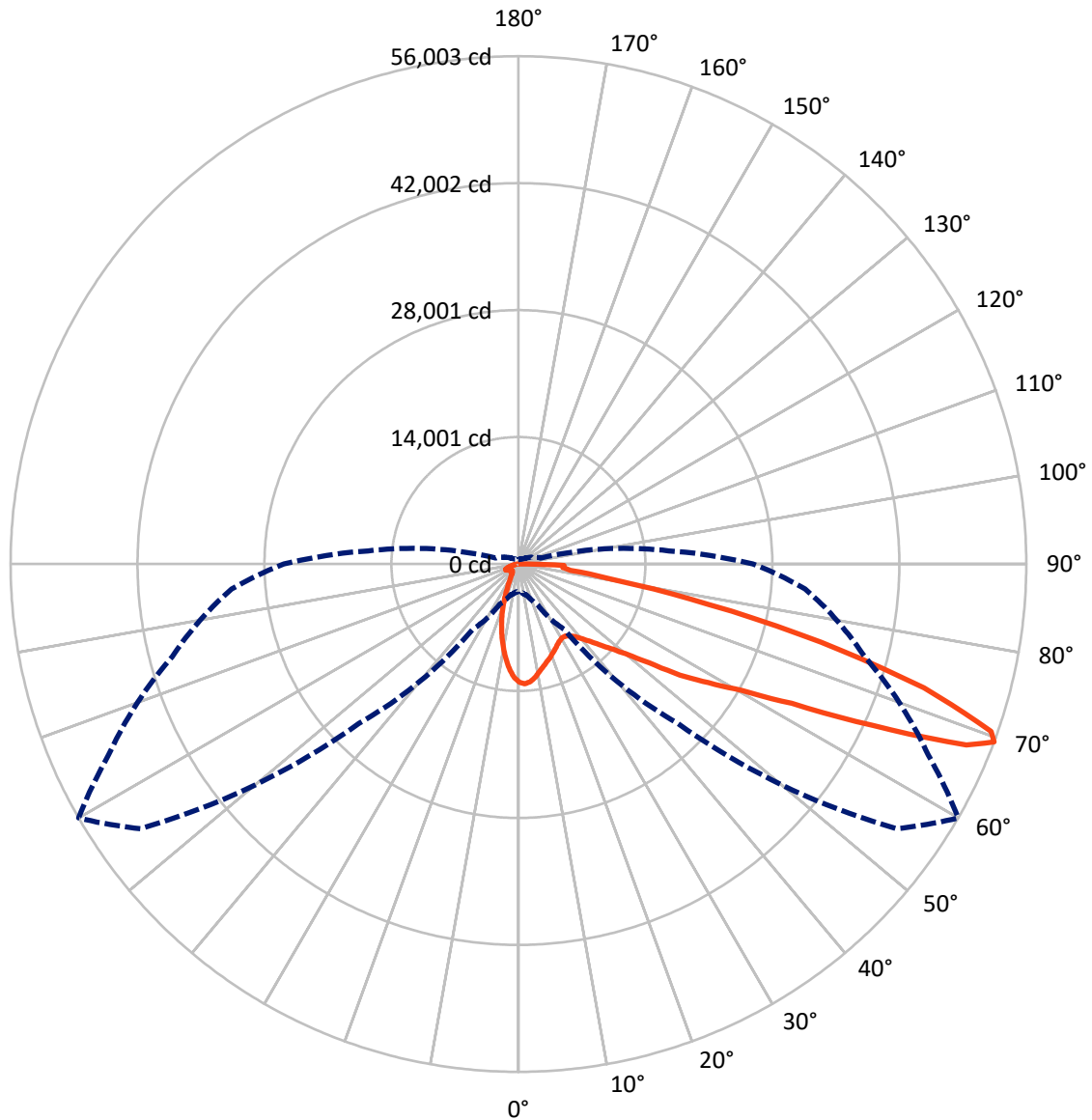
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7282.9	0.0	7282.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	43908.2	0.0	43908.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	51191.1	0.0	51191.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1102.9	2.2
10°-20°	2349.9	4.6
20°-30°	2994.2	5.8
30°-40°	4116.2	8.0
40°-50°	6679.0	13.0
50°-60°	10711.4	20.9
60°-70°	14256.0	27.8
70°-80°	7697.2	15.0
80°-90°	1284.3	2.5
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°	51191.1	100.0
0°-180°	51191.1	100.0

Coefficient of Utilization



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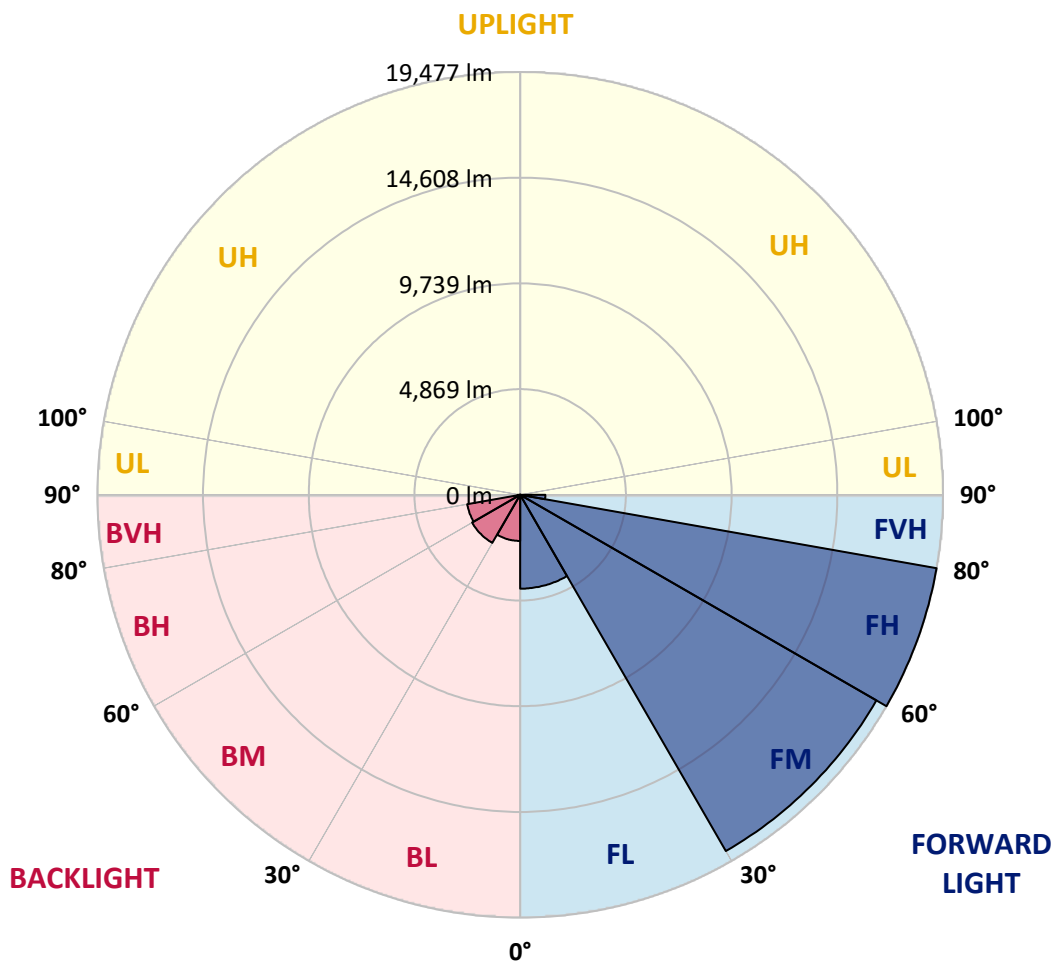
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4322.4	8.4			
FM	(30°-60°)	18948.0	37.0			
FH	(60°-80°)	19477.2	38.0			G5
FVH	(80°-90°)	1160.6	2.3			G5
BL	(0°-30°)	2124.6	4.2	B3/2500		
BM	(30°-60°)	2558.6	5.0	B3/5000		
BH	(60°-80°)	2476.0	4.8	B3/2500		G3/2500
BVH	(80°-90°)	123.7	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	13044.3	13044.3	13044.3	13044.3	13044.3	13044.3	13044.3	13044.3	13044.3	13044.3	13044.3
2.5°	13311.4	13341.0	13328.6	13321.2	13343.6	13308.8	13237.2	13214.8	13180.3	13098.6	12960.1
5°	12811.8	12900.9	12895.9	12962.7	13073.9	13103.7	13071.4	13076.4	13012.0	12910.7	12680.7
7.5°	11948.9	11985.8	12005.7	12151.6	12354.4	12517.5	12656.0	12700.5	12671.0	12584.4	12287.6
10°	11058.6	11088.3	11135.2	11305.9	11563.1	11788.1	12050.3	12201.0	12265.4	12250.5	11919.2
12.5°	10294.4	10324.1	10385.9	10578.8	10885.5	11162.5	11543.3	11731.1	11884.4	11976.1	11619.9
15°	9609.4	9673.8	9733.1	9955.6	10299.3	10662.9	11093.2	11330.6	11568.1	11773.2	11355.4
17.5°	9075.3	9139.6	9174.3	9377.0	9743.0	10188.1	10692.5	10972.0	11268.8	11605.1	11093.2
20°	8766.2	8795.9	8781.1	8894.8	9223.7	9696.0	10294.4	10618.4	10977.0	11446.8	10831.0
22.5°	8679.8	8682.2	8627.9	8615.5	8828.1	9226.2	9869.0	10262.3	10702.4	11343.0	10606.1
25°	8889.8	8882.5	8734.1	8612.9	8635.1	8867.6	9458.7	9916.1	10472.5	11320.7	10432.9
27.5°	9357.3	9379.6	9159.5	8931.9	8706.9	8699.5	9147.1	9629.3	10284.5	11422.0	10358.7
30°	10012.6	10049.7	9814.7	9525.4	9102.5	8754.0	9025.9	9458.7	10168.4	11632.3	10346.4
32.5°	10729.6	10769.2	10591.1	10287.0	9733.1	9090.2	9110.0	9473.4	10163.5	11926.5	10430.5
35°	11493.9	11538.3	11446.8	11189.6	10573.9	9710.9	9431.5	9713.4	10324.1	12376.6	10655.5
37.5°	12346.9	12416.2	12440.8	12196.1	11538.3	10529.5	9958.3	10168.4	10687.7	13002.2	11068.5
40°	13575.9	13672.5	13664.9	13313.8	12643.6	11634.8	10771.8	10826.2	11254.0	13838.1	11728.7
42.5°	15930.2	15949.9	15334.2	14570.0	13860.3	12797.0	11731.1	11686.7	12035.3	14896.5	12700.5
45°	18924.8	18843.0	17473.1	15996.8	15131.4	14132.3	12980.0	12762.4	13027.0	16187.3	13917.3
47.5°	21409.9	21222.0	19491.0	17453.3	16476.6	15583.8	14446.5	14065.7	14211.5	17651.2	15490.0
50°	22272.9	22132.0	20697.8	18665.1	17750.1	17354.4	16251.5	15712.4	15752.0	19397.0	17332.2
52.5°	22087.4	22067.8	21110.7	19463.8	18942.0	19214.0	18808.5	18079.0	17693.2	21335.7	19320.3
55°	21649.8	21691.8	21345.6	20393.6	20304.6	21009.3	22149.2	21610.3	20410.8	23291.8	21375.3
57.5°	20129.0	20237.7	20999.4	21563.3	22498.1	23546.5	24839.8	24686.4	23336.3	25406.0	23818.5
60°	16216.9	16469.2	18511.7	21335.7	24755.8	28034.7	28613.4	28257.3	26353.1	28029.8	27045.5
62.5°	11362.8	11624.8	14053.3	18472.1	24384.9	33104.0	35359.3	33823.6	30685.7	31894.9	31222.2
65°	6083.2	6209.4	8063.9	12816.7	20586.5	34150.1	45218.5	42881.8	37545.3	36660.0	34795.5
67.5°	3355.7	3424.9	4134.5	6471.4	13185.2	30072.3	51499.6	53265.2	46118.7	39832.6	34145.0
69°	3034.1	3098.4	3563.3	4901.2	8823.2	24864.5	50886.3	56002.7	49877.3	39518.5	31741.5
70°	2967.5	3026.7	3444.7	4517.8	7141.5	20495.0	48831.3	55302.7	50772.6	38393.5	29644.4
72.5°	2670.8	2735.0	3140.6	4058.0	6102.9	10217.9	38680.3	46759.0	46096.3	33289.5	22485.7
75°	2490.1	2549.5	3237.0	3973.8	5843.4	6466.4	25499.9	34461.6	33885.4	23286.9	12124.3
77.5°	1065.7	1060.9	1501.0	3363.1	5929.9	6261.2	13702.0	21528.6	19641.8	9953.2	3481.8
80°	712.1	699.8	712.1	989.2	5437.8	6296.0	7178.6	10927.5	8254.3	2537.2	1716.1
82.5°	613.3	603.4	625.6	603.4	1911.6	7186.1	6102.9	5811.1	3924.4	1441.7	850.7
85°	413.0	395.7	539.2	541.6	902.5	6385.0	6874.5	4908.6	3175.1	855.5	420.3
87.5°	197.8	192.9	314.0	383.2	529.2	2594.0	7712.8	5029.8	3202.4	437.7	200.3
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°	13044.3	13044.3	13044.3	13044.3	13044.3	13044.3	13044.3	13044.3	13044.3	13044.3	13044.3
2.5°	12918.2	12816.7	12717.8	12599.2	12475.5	12337.1	12267.9	12198.5	12181.2	12161.4	12092.3
5°	12562.1	12418.7	12171.3	11899.4	11612.5	11333.0	11120.4	10986.9	10885.5	10833.6	10742.0
7.5°	12102.1	11891.9	11459.1	10989.3	10507.1	10066.9	9686.2	9446.2	9218.8	9112.4	8991.2
10°	11664.4	11350.4	10677.8	9985.4	9293.0	8627.9	8002.1	7559.4	7166.3	6946.2	6790.5
12.5°	11288.6	10858.4	9926.0	8988.8	8039.2	7092.1	6154.9	5417.9	4802.2	4478.3	4312.7
15°	10922.6	10403.4	9211.4	8022.0	6802.9	5514.4	4282.9	3447.2	2937.7	2735.0	2665.7
17.5°	10591.1	9926.0	8494.3	7047.7	5526.8	3968.9	2878.3	2418.4	2223.0	2156.3	2134.1
20°	10232.7	9443.8	7749.9	6028.9	4196.4	2774.5	2247.7	2045.0	1965.9	1946.2	1936.2
22.5°	9886.4	8968.9	7037.7	4938.3	3014.4	2141.5	1931.3	1847.3	1834.9	1852.1	1852.1
25°	9592.2	8543.7	6268.6	3798.4	2213.2	1802.7	1728.5	1708.8	1755.6	1820.1	1832.5
27.5°	9372.0	8195.0	5450.1	2804.1	1763.2	1567.8	1565.2	1597.5	1713.6	1837.4	1862.0
30°	9221.2	7863.7	4574.8	2022.9	1478.8	1379.8	1419.4	1488.6	1659.3	1834.9	1881.8
32.5°	9144.6	7618.9	3662.3	1565.2	1266.2	1211.8	1278.5	1362.5	1530.7	1693.9	1755.6
35°	9203.9	7438.3	2801.8	1305.6	1117.8	1075.7	1144.9	1226.5	1325.4	1394.7	1441.7
37.5°	9426.5	7366.6	2114.3	1169.7	1016.3	976.7	1031.2	1078.1	1117.8	1137.6	1159.7
40°	9906.1	7443.3	1693.9	1100.5	959.5	910.1	932.4	949.6	974.3	994.1	1003.9
42.5°	10613.5	7673.2	1518.3	1073.3	929.7	858.2	853.1	860.5	892.6	929.7	937.2
45°	11602.6	8078.7	1506.0	1090.5	915.0	816.0	793.8	803.7	853.1	910.1	920.0
47.5°	12866.2	8697.0	1604.9	1142.5	927.3	793.8	756.7	769.0	830.9	907.6	920.0
50°	14397.0	9560.0	1770.6	1219.1	981.7	798.8	744.3	751.7	816.0	900.1	912.5
52.5°	16204.5	10784.2	1951.1	1293.3	1038.6	830.9	754.1	736.9	796.3	870.5	885.3
55°	18215.0	12354.4	2136.6	1360.0	1068.3	870.5	774.0	717.1	759.2	821.1	833.4
57.5°	20682.9	14550.2	2458.0	1424.4	1088.0	897.6	793.8	697.4	712.1	756.7	766.6
60°	24023.7	17656.1	3024.4	1530.7	1132.6	907.6	791.2	680.0	665.1	689.9	694.8
62.5°	28027.3	21029.1	3496.7	1664.2	1206.8	915.0	776.5	667.7	625.6	625.6	630.6
65°	30403.7	21931.7	3234.4	1775.5	1268.5	907.6	759.2	655.4	595.9	568.7	571.2
67.5°	28388.2	19288.1	2772.1	1797.8	1266.2	873.0	731.9	633.0	566.3	524.3	521.7
69°	25863.6	16642.3	2564.3	1738.4	1206.8	828.3	697.4	608.3	544.1	499.5	497.0
70°	23828.4	15027.4	2428.4	1674.1	1142.5	796.3	670.1	586.1	526.8	484.6	479.8
72.5°	17324.8	9847.0	2074.7	1439.3	942.1	667.7	578.7	514.4	469.9	445.1	440.2
75°	8657.4	4695.9	1684.1	1167.2	722.1	534.1	474.8	430.3	408.0	403.1	400.6
77.5°	2843.8	2151.4	1204.3	870.5	536.6	417.9	383.2	351.1	346.1	360.9	356.1
80°	1562.8	1251.2	764.1	576.2	366.0	306.6	301.7	284.4	291.8	316.6	311.6
82.5°	796.3	650.4	472.2	346.1	247.4	220.1	239.8	230.0	239.8	262.1	259.6
85°	393.2	356.1	299.2	210.3	163.2	140.9	170.6	178.0	183.0	200.3	200.3
87.5°	227.5	210.3	158.2	99.0	81.6	74.2	99.0	96.5	113.7	123.6	121.2
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)