

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: P192157

Luminaire Tested: **GLEON-AF-09-LED-E1-T2-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-T2-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34406 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

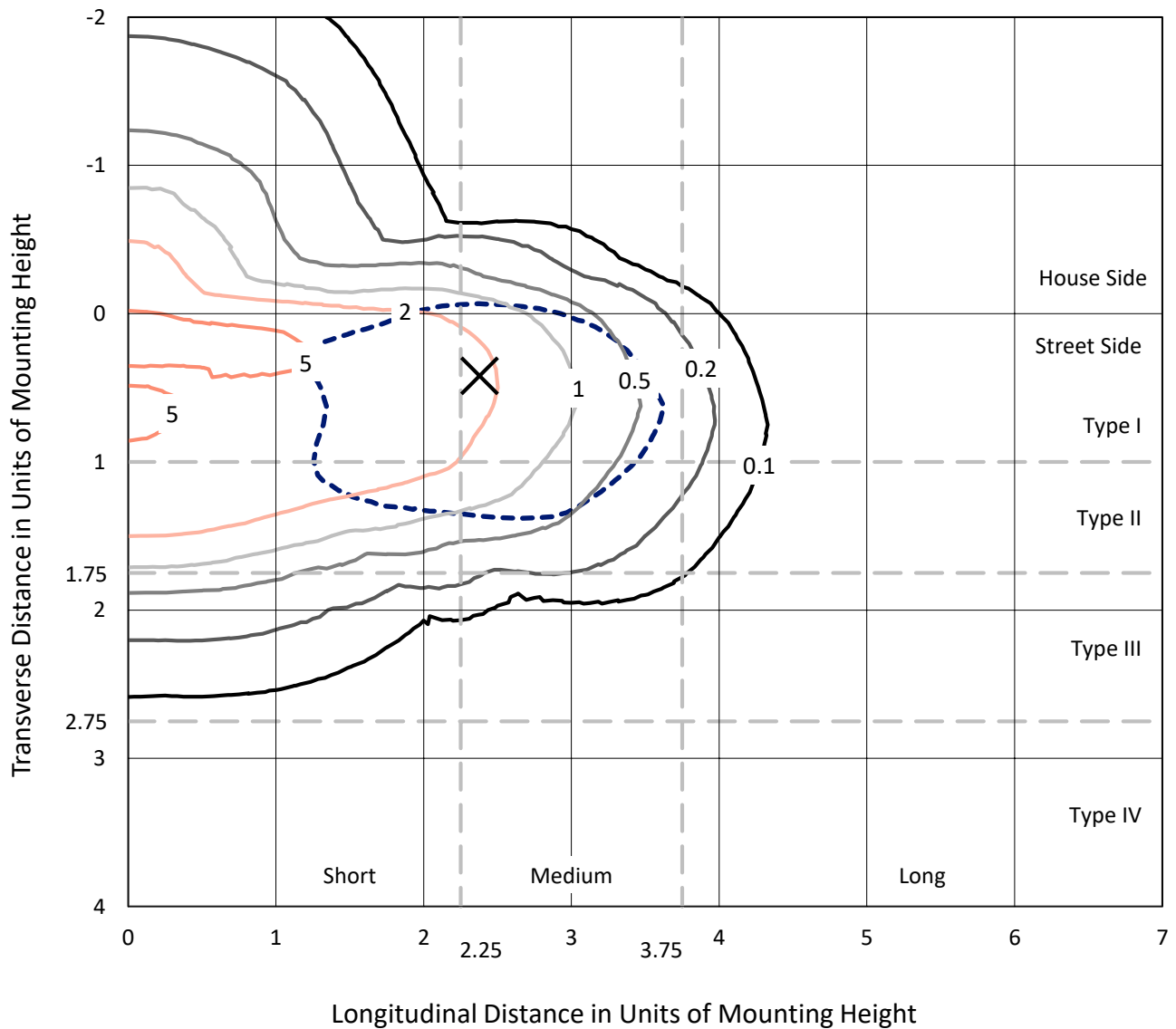
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

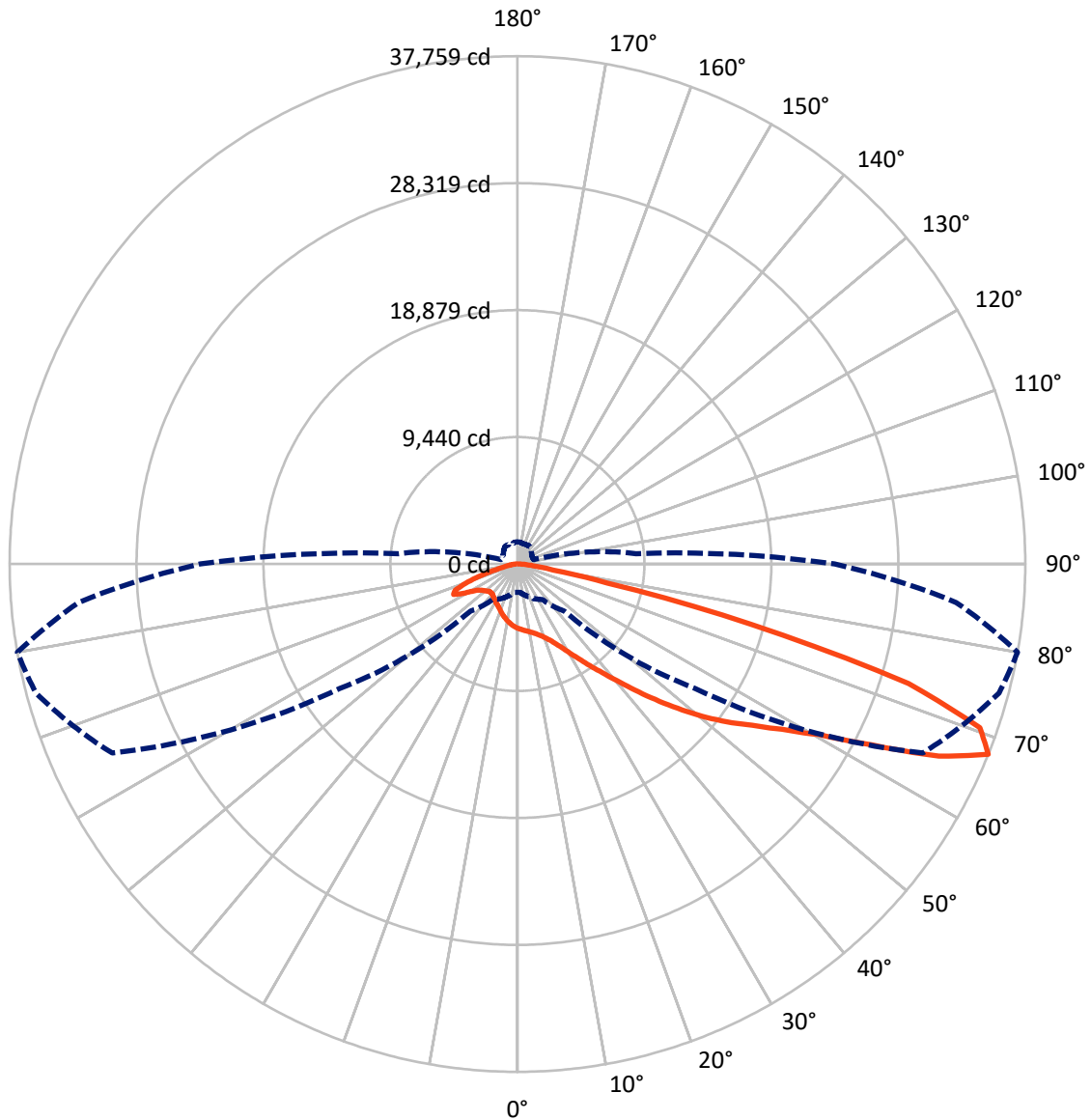
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6336.3	0.0	6336.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	28069.7	0.0	28069.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	34406.0	0.0	34406.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.9	1.3
10°-20°	1270.2	3.7
20°-30°	2102.5	6.1
30°-40°	3439.1	10.0
40°-50°	5552.7	16.1
50°-60°	8016.5	23.3
60°-70°	8846.7	25.7
70°-80°	4077.8	11.9
80°-90°	659.6	1.9
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°	34406.0	100.0
0°-180°	34406.0	100.0



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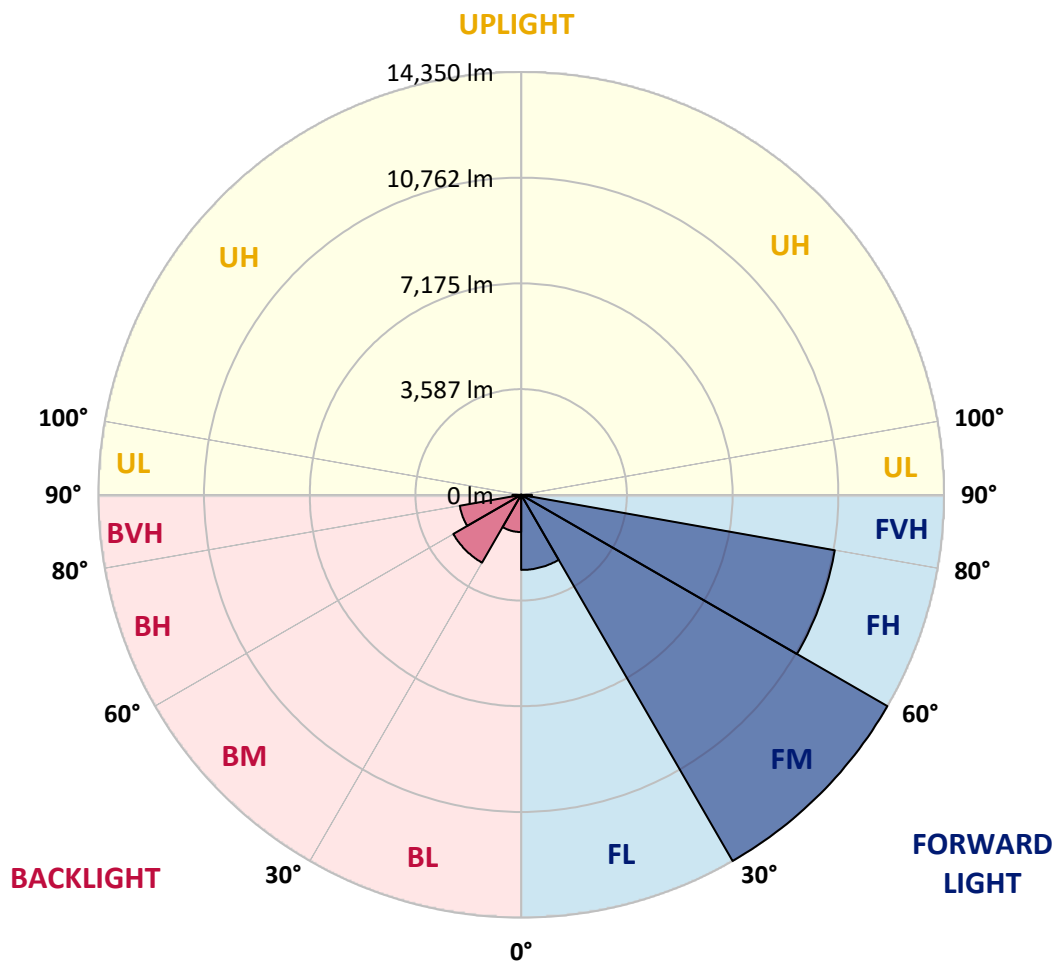
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2549.4	7.4			
FM (30°-60°)	14349.9	41.7			
FH (60°-80°)	10807.8	31.4			G4/12000
FVH (80°-90°)	362.6	1.1			G3/500
BL (0°-30°)	1264.2	3.7	B3/2500		
BM (30°-60°)	2658.5	7.7	B3/5000		
BH (60°-80°)	2116.7	6.2	B3/2500		G3/2500
BVH (80°-90°)	296.9	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4780.0	4780.0	4780.0	4780.0	4780.0	4780.0	4780.0	4780.0	4780.0	4780.0	4780.0
2.5°	5228.9	5198.4	5203.5	5195.0	5169.6	5125.5	5078.1	4991.7	4901.9	4854.5	4817.3
5°	5665.9	5657.4	5645.5	5618.4	5554.1	5462.6	5349.1	5196.7	5032.4	4946.0	4863.0
7.5°	5992.8	5987.7	5972.5	5955.5	5892.8	5782.7	5611.7	5394.9	5156.0	5037.5	4908.7
10°	6019.9	6028.3	6040.2	6085.9	6094.4	6035.1	5860.7	5598.1	5284.8	5132.3	4968.0
12.5°	5789.5	5808.2	5853.9	5970.8	6094.4	6167.2	6077.5	5811.5	5435.5	5250.9	5042.5
15°	5484.6	5494.8	5550.7	5711.6	5933.5	6158.8	6243.5	6047.0	5630.3	5403.3	5154.3
17.5°	5354.2	5359.3	5398.2	5505.0	5711.6	6033.4	6336.6	6302.7	5869.1	5593.0	5291.5
20°	5288.1	5300.0	5355.9	5460.9	5591.3	5872.5	6350.2	6578.8	6153.7	5830.2	5464.3
22.5°	5476.2	5471.1	5491.4	5543.9	5654.0	5823.4	6340.0	6863.4	6516.2	6135.1	5689.6
25°	5914.9	5933.5	5897.9	5838.6	5874.2	5992.8	6394.2	7171.7	6970.1	6526.3	5984.3
27.5°	6539.9	6521.3	6468.7	6329.9	6257.0	6307.8	6573.8	7503.7	7534.2	7041.3	6373.9
30°	7163.2	7148.0	7097.2	6927.8	6778.7	6736.4	6922.7	7884.8	8206.6	7659.5	6851.6
32.5°	7810.3	7793.3	7745.9	7576.5	7397.0	7298.7	7419.0	8325.2	8999.3	8398.0	7413.9
35°	8608.1	8575.9	8475.9	8240.5	8064.3	7988.1	8044.0	8879.1	9914.0	9272.0	8096.5
37.5°	9358.4	9407.5	9305.9	8980.7	8752.0	8724.9	8787.6	9554.9	10899.8	10249.4	8880.8
40°	10112.2	10120.6	10029.2	9763.2	9527.8	9483.8	9641.3	10374.7	12063.5	11418.1	9834.4
42.5°	10891.3	10908.3	10754.1	10508.5	10335.8	10344.2	10523.8	11335.1	13398.2	12795.2	10932.0
45°	11814.5	11839.9	11670.5	11348.7	11191.1	11507.9	11433.4	12412.4	14861.7	14360.3	12192.2
47.5°	12780.0	12818.9	12690.2	12388.7	12192.2	12627.5	12343.0	13606.6	16436.9	16038.9	13576.1
50°	13306.7	13362.6	13488.0	13466.0	13423.6	13350.8	13357.6	14887.1	18061.3	17786.9	14998.9
52.5°	13023.9	13022.2	13479.5	14035.1	14627.9	14672.0	14594.1	16237.1	19579.0	19496.0	16338.7
55°	11729.8	11817.9	12510.6	13586.2	15205.5	16216.7	16447.1	17783.5	21069.6	21166.1	17698.9
57.5°	9575.2	9648.1	10583.1	12082.1	14426.4	17134.8	19082.7	20031.3	22736.3	23186.9	19509.6
60°	6494.2	6582.2	7573.1	9373.7	12329.4	16623.3	21591.3	24042.3	24731.6	25756.4	22050.3
62.5°	3816.2	3895.8	4703.8	5913.2	8680.9	14246.8	22692.3	29748.8	27900.8	29633.6	25925.8
65°	2627.1	2681.3	3074.3	3680.7	4988.3	9595.6	21327.0	33688.6	32777.3	34437.3	30419.5
67.5°	2113.9	2107.1	2418.8	2832.1	3211.5	4947.7	16127.0	33243.1	37066.1	37758.9	32751.9
70°	1741.3	1734.5	1946.2	2288.4	2566.2	2786.4	8784.2	28053.2	36192.1	36473.3	30604.2
72.5°	1456.7	1463.5	1599.0	1853.1	2105.4	2098.7	3860.2	19734.8	28471.6	30416.1	24396.3
75°	1229.7	1233.1	1322.9	1502.4	1709.1	1690.4	2093.6	10691.5	16550.4	17903.8	13523.6
77.5°	1046.8	1050.2	1107.8	1207.7	1355.1	1348.3	1527.8	4619.1	6904.1	6819.4	4625.9
80°	933.3	933.3	960.4	979.0	1060.3	1029.8	1133.2	2218.9	2918.5	2694.9	1846.3
82.5°	731.7	735.1	901.1	894.3	835.1	796.1	796.1	1307.6	1546.5	1429.6	1080.7
85°	411.6	409.9	581.0	701.2	735.1	560.7	555.6	731.7	841.8	741.9	523.4
87.5°	176.2	179.5	269.3	311.7	416.7	348.9	343.8	377.7	428.5	370.9	242.2
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°	4780.0	4780.0	4780.0	4780.0	4780.0	4780.0	4780.0	4780.0	4780.0	4780.0	4780.0
2.5°	4781.7	4737.6	4641.1	4520.8	4412.4	4341.3	4276.9	4183.8	4188.8	4124.5	4077.1
5°	4778.3	4686.8	4463.2	4197.3	3941.5	3756.9	3618.0	3492.7	3462.2	3402.9	3367.3
7.5°	4781.7	4632.6	4256.6	3831.4	3514.7	3281.0	3162.4	3096.3	3081.1	3060.8	3062.4
10°	4793.5	4583.5	4029.6	3489.3	3157.3	3003.2	2974.4	2994.7	3018.4	3025.2	3026.9
12.5°	4820.6	4539.5	3780.6	3184.4	2933.7	2886.3	2935.4	3004.9	3050.6	3072.6	3070.9
15°	4881.6	4505.6	3541.8	2945.6	2810.1	2835.5	2926.9	3025.2	3091.2	3121.7	3123.4
17.5°	4947.7	4456.5	3296.2	2762.6	2718.6	2783.0	2896.5	3011.6	3092.9	3126.8	3133.6
20°	5034.1	4395.5	3038.7	2625.4	2632.2	2705.0	2811.8	2926.9	3016.7	3045.5	3059.1
22.5°	5147.6	4329.4	2813.5	2513.6	2534.0	2589.9	2672.9	2772.8	2850.7	2864.3	2876.1
25°	5300.0	4258.3	2633.9	2412.0	2420.5	2452.7	2508.6	2567.8	2622.1	2606.8	2618.7
27.5°	5505.0	4197.3	2500.1	2318.9	2303.6	2310.4	2339.2	2357.8	2386.6	2344.3	2349.3
30°	5745.5	4131.3	2396.8	2237.6	2195.2	2183.3	2190.1	2200.3	2222.3	2164.7	2156.2
32.5°	6025.0	4051.6	2300.2	2166.4	2107.1	2083.4	2086.8	2113.9	2198.6	2163.0	2144.4
35°	6350.2	3961.9	2198.6	2088.5	2047.8	2014.0	2010.6	2095.3	2347.7	2325.6	2308.7
37.5°	6731.3	3872.1	2097.0	2000.4	2003.8	1966.5	1954.7	2051.2	2376.4	2290.1	2278.2
40°	7215.7	3824.7	2010.6	1907.3	1949.6	1944.5	1920.8	1969.9	2186.7	2029.2	2008.9
42.5°	7815.3	3831.4	1946.2	1807.3	1885.2	1939.4	1902.2	1903.9	1981.8	1863.2	1844.6
45°	8555.5	3911.1	1900.5	1727.7	1812.4	1934.4	1895.4	1868.3	1875.1	1812.4	1802.2
47.5°	9419.4	4075.4	1868.3	1661.6	1743.0	1915.7	1893.7	1858.1	1842.9	1809.0	1800.5
50°	10379.8	4314.2	1844.6	1599.0	1680.3	1885.2	1895.4	1848.0	1831.0	1817.5	1812.4
52.5°	11323.3	4586.9	1809.0	1544.8	1631.2	1848.0	1900.5	1837.8	1819.2	1809.0	1803.9
55°	12375.1	4927.4	1754.8	1499.0	1590.5	1800.5	1900.5	1822.6	1802.2	1803.9	1802.2
57.5°	13796.3	5477.9	1690.4	1460.1	1541.4	1743.0	1868.3	1805.6	1780.2	1781.9	1783.6
60°	16016.9	6448.4	1612.5	1421.1	1480.4	1675.2	1824.3	1768.4	1743.0	1749.7	1751.4
62.5°	19282.6	7872.9	1510.9	1363.5	1416.0	1602.4	1763.3	1720.9	1695.5	1712.5	1712.5
65°	22677.0	9129.8	1385.6	1290.7	1348.3	1522.8	1687.1	1661.6	1636.2	1675.2	1673.5
67.5°	23590.0	8848.6	1260.2	1211.1	1280.5	1434.7	1595.6	1582.0	1568.5	1636.2	1632.9
70°	20956.1	7103.9	1145.0	1129.8	1206.0	1339.8	1497.3	1497.3	1488.9	1539.7	1527.8
72.5°	15966.1	5037.5	1034.9	1043.4	1121.3	1236.5	1390.6	1402.5	1388.9	1414.3	1404.2
75°	8547.1	2882.9	924.8	948.5	1016.3	1131.5	1272.1	1283.9	1275.5	1273.8	1278.8
77.5°	2840.6	1409.3	809.7	846.9	906.2	1023.1	1148.4	1167.1	1146.7	1143.3	1141.6
80°	1265.3	885.9	682.6	731.7	784.2	899.4	1018.0	1033.2	1011.2	1041.7	1002.7
82.5°	813.0	582.7	547.1	601.3	652.1	775.8	887.6	891.0	870.6	1011.2	862.2
85°	394.7	360.8	411.6	460.7	504.8	609.8	735.1	736.8	686.0	625.0	603.0
87.5°	196.5	210.0	274.4	318.4	340.5	418.4	535.3	525.1	503.1	457.3	421.8
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)