

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: P192158

Luminaire Tested: **GLEON-AF-10-LED-E1-T2-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192158
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-10-LED-E1-T2-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 38093 lumens
Efficiency: N/A
Efficacy: 117.9 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

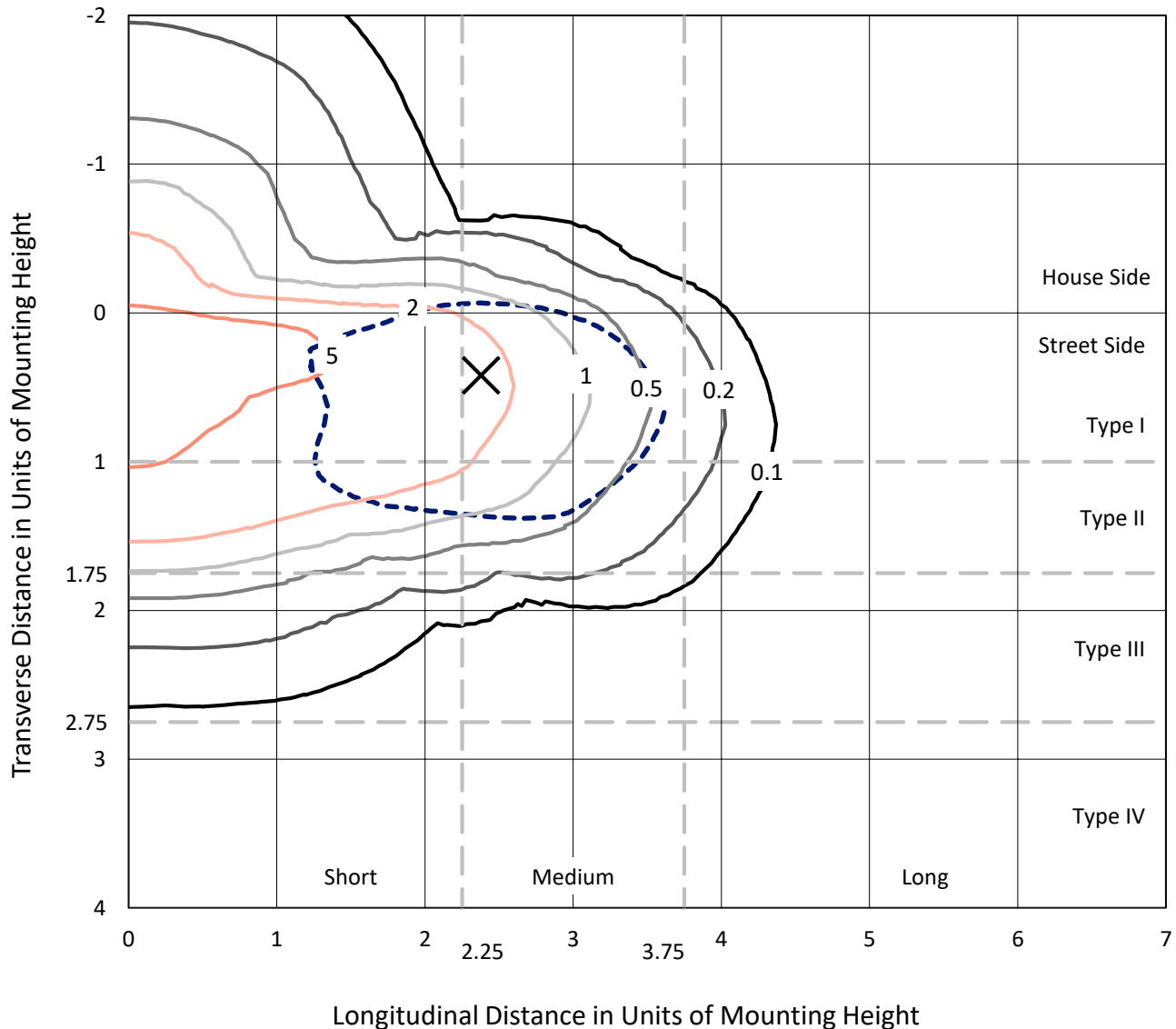
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

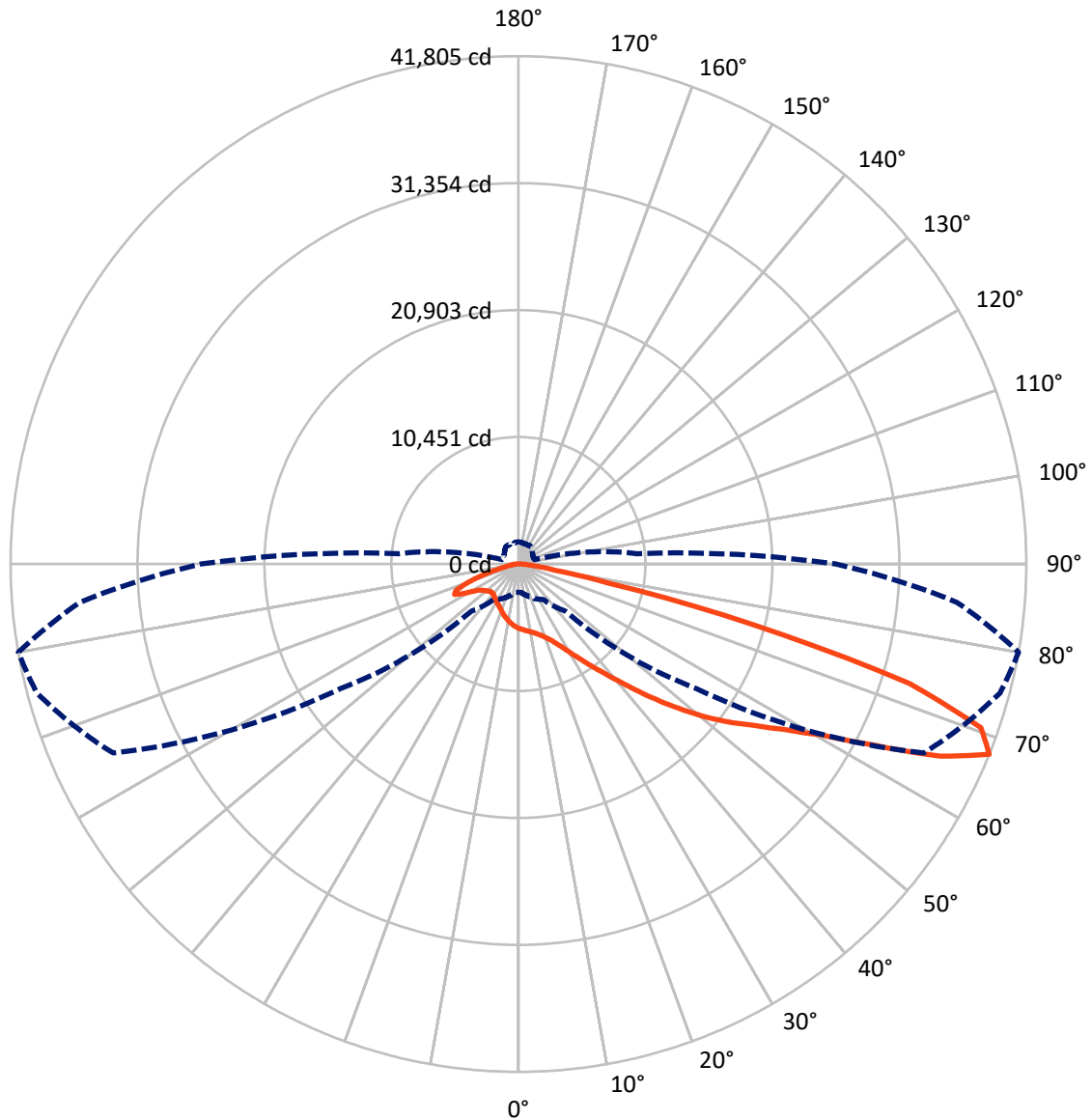
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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	7015.3	0.0	7015.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	31077.7	0.0	31077.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	38093.0	0.0	38093.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.2	1.3
10°-20°	1406.3	3.7
20°-30°	2327.8	6.1
30°-40°	3807.6	10.0
40°-50°	6147.8	16.1
50°-60°	8875.6	23.3
60°-70°	9794.8	25.7
70°-80°	4514.8	11.9
80°-90°	730.2	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°	38093.0	100.0
0°-180°	38093.0	100.0



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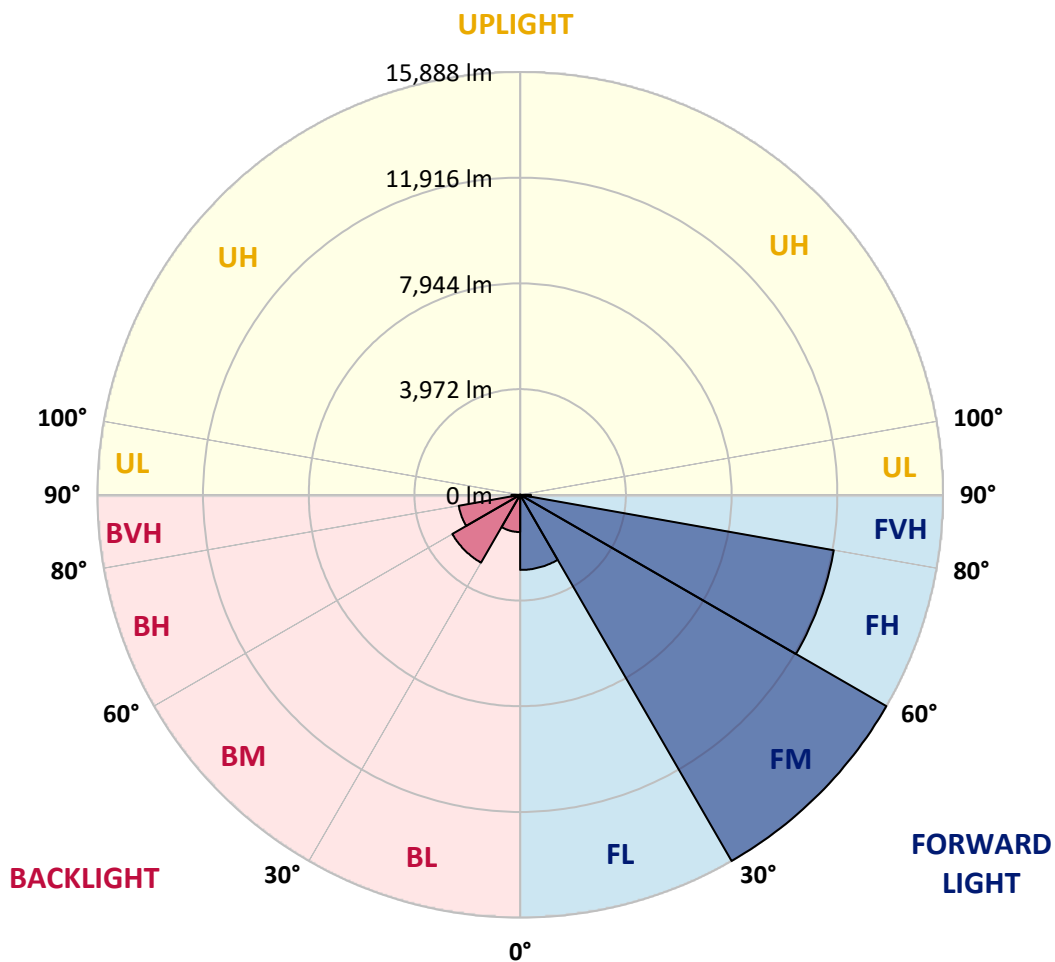
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2822.6	7.4			
FM (30°-60°)	15887.6	41.7			
FH (60°-80°)	11966.0	31.4			G4/12000
FVH (80°-90°)	401.5	1.1			G3/500
BL (0°-30°)	1399.6	3.7	B3/2500		
BM (30°-60°)	2943.4	7.7	B3/5000		
BH (60°-80°)	2343.5	6.2	B3/2500		G3/2500
BVH (80°-90°)	328.8	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°	5292.2	5292.2	5292.2	5292.2	5292.2	5292.2	5292.2	5292.2	5292.2	5292.2	5292.2
2.5°	5789.2	5755.4	5761.1	5751.7	5723.6	5674.8	5622.3	5526.6	5427.3	5374.7	5333.5
5°	6273.0	6263.7	6250.5	6220.5	6149.3	6048.0	5922.3	5753.6	5571.7	5476.0	5384.1
7.5°	6635.0	6629.3	6612.5	6593.7	6524.3	6402.4	6213.0	5973.0	5708.6	5577.3	5434.8
10°	6665.0	6674.4	6687.5	6738.1	6747.5	6681.9	6488.7	6198.0	5851.1	5682.3	5500.4
12.5°	6409.9	6430.6	6481.2	6610.6	6747.5	6828.1	6728.7	6434.3	6018.0	5813.6	5582.9
15°	6072.4	6083.6	6145.5	6323.7	6569.3	6818.8	6912.5	6695.0	6233.6	5982.4	5706.7
17.5°	5928.0	5933.6	5976.7	6094.9	6323.7	6680.0	7015.7	6978.2	6498.1	6192.4	5858.6
20°	5854.8	5868.0	5929.8	6046.1	6190.5	6501.8	7030.7	7283.8	6813.1	6454.9	6049.9
22.5°	6063.0	6057.4	6079.9	6138.0	6259.9	6447.4	7019.4	7598.9	7214.5	6792.5	6299.3
25°	6548.7	6569.3	6530.0	6464.3	6503.7	6635.0	7079.4	7940.2	7717.0	7225.7	6625.6
27.5°	7240.7	7220.1	7161.9	7008.2	6927.5	6983.8	7278.2	8307.8	8341.5	7795.8	7056.9
30°	7930.8	7914.0	7857.7	7670.2	7505.1	7458.2	7664.5	8729.7	9086.1	8480.3	7585.8
32.5°	8647.2	8628.5	8576.0	8388.4	8189.6	8080.9	8214.0	9217.3	9963.7	9298.0	8208.4
35°	9530.5	9494.9	9384.2	9123.6	8928.5	8844.1	8906.0	9830.6	10976.4	10265.6	8964.2
37.5°	10361.3	10415.7	10303.1	9943.1	9689.9	9659.9	9729.3	10578.8	12067.8	11347.7	9832.4
40°	11195.8	11205.2	11103.9	10809.5	10548.8	10500.1	10674.5	11486.5	13356.2	12641.7	10888.3
42.5°	12058.5	12077.2	11906.6	11634.6	11443.4	11452.7	11651.5	12549.8	14834.0	14166.4	12103.5
45°	13080.5	13108.7	12921.1	12564.8	12390.4	12741.1	12658.6	13742.5	16454.3	15899.2	13498.7
47.5°	14149.5	14192.6	14050.1	13716.3	13498.7	13980.7	13665.6	15064.7	18198.4	17757.6	15030.9
50°	14732.7	14794.6	14933.4	14909.0	14862.1	14781.5	14789.0	16482.4	19996.8	19693.0	16606.2
52.5°	14419.5	14417.7	14924.0	15539.1	16195.5	16244.2	16158.0	17977.1	21677.1	21585.2	18089.6
55°	12986.8	13084.3	13851.3	15042.1	16835.0	17954.6	18209.6	19689.3	23327.4	23434.3	19595.5
57.5°	10601.3	10682.0	11717.2	13376.8	15972.3	18971.0	21127.6	22177.8	25172.8	25671.6	21600.2
60°	7190.1	7287.6	8384.7	10378.2	13650.6	18404.6	23905.0	26618.7	27381.9	28516.5	24413.3
62.5°	4225.2	4313.3	5207.8	6546.8	9611.1	15773.5	25124.0	32936.7	30890.7	32809.2	28704.0
65°	2908.7	2968.7	3403.8	4075.1	5522.9	10623.8	23612.5	37298.8	36289.8	38127.7	33679.3
67.5°	2340.4	2332.9	2678.0	3135.6	3555.7	5477.9	17855.2	36805.5	41038.2	41805.2	36261.7
70°	1927.9	1920.4	2154.8	2533.6	2841.1	3084.9	9725.5	31059.5	40070.5	40381.8	33883.7
72.5°	1612.8	1620.3	1770.3	2051.6	2331.1	2323.6	4273.9	21849.7	31522.7	33675.6	27010.6
75°	1361.5	1365.3	1464.6	1663.4	1892.2	1871.6	2317.9	11837.2	18324.0	19822.4	14972.8
77.5°	1159.0	1162.7	1226.5	1337.1	1500.3	1492.8	1691.6	5114.1	7643.9	7550.1	5121.6
80°	1033.3	1033.3	1063.3	1083.9	1174.0	1140.2	1254.6	2456.7	3231.2	2983.7	2044.1
82.5°	810.1	813.9	997.7	990.2	924.5	881.4	881.4	1447.8	1712.2	1582.8	1196.5
85°	455.7	453.8	643.2	776.4	813.9	620.7	615.1	810.1	932.0	821.4	579.5
87.5°	195.0	198.8	298.2	345.1	461.3	386.3	380.7	418.2	474.5	410.7	268.2
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°	5292.2	5292.2	5292.2	5292.2	5292.2	5292.2	5292.2	5292.2	5292.2	5292.2	5292.2
2.5°	5294.1	5245.3	5138.4	5005.3	4885.3	4806.5	4735.2	4632.1	4637.7	4566.5	4514.0
5°	5290.4	5189.1	4941.5	4647.1	4363.9	4159.5	4005.7	3867.0	3833.2	3767.6	3728.2
7.5°	5294.1	5129.1	4712.7	4242.0	3891.3	3632.5	3501.3	3428.1	3411.3	3388.7	3390.6
10°	5307.2	5074.7	4461.4	3863.2	3495.6	3325.0	3293.1	3315.6	3341.9	3349.4	3351.2
12.5°	5337.2	5025.9	4185.8	3525.6	3248.1	3195.6	3250.0	3326.9	3377.5	3401.9	3400.0
15°	5404.7	4988.4	3921.3	3261.2	3111.2	3139.3	3240.6	3349.4	3422.5	3456.3	3458.1
17.5°	5477.9	4934.0	3649.4	3058.7	3009.9	3081.2	3206.8	3334.4	3424.4	3461.9	3469.4
20°	5573.5	4866.5	3364.4	2906.8	2914.3	2994.9	3113.1	3240.6	3340.0	3371.9	3386.9
22.5°	5699.2	4793.4	3114.9	2783.0	2805.5	2867.4	2959.3	3069.9	3156.2	3171.2	3184.3
25°	5868.0	4714.6	2916.2	2670.5	2679.9	2715.5	2777.4	2843.0	2903.0	2886.2	2899.3
27.5°	6094.9	4647.1	2768.0	2567.3	2550.5	2558.0	2589.9	2610.5	2642.4	2595.5	2601.1
30°	6361.2	4574.0	2653.6	2477.3	2430.4	2417.3	2424.8	2436.1	2460.5	2396.7	2387.3
32.5°	6670.6	4485.8	2546.7	2398.6	2332.9	2306.7	2310.4	2340.4	2434.2	2394.8	2374.2
35°	7030.7	4386.4	2434.2	2312.3	2267.3	2229.8	2226.0	2319.8	2599.2	2574.8	2556.1
37.5°	7452.6	4287.0	2321.7	2214.8	2218.5	2177.3	2164.1	2271.0	2631.1	2535.5	2522.3
40°	7989.0	4234.5	2226.0	2111.6	2158.5	2152.9	2126.6	2181.0	2421.1	2246.7	2224.2
42.5°	8652.8	4242.0	2154.8	2001.0	2087.3	2147.3	2106.0	2107.9	2194.2	2062.9	2042.3
45°	9472.4	4330.2	2104.1	1912.9	2006.6	2141.6	2098.5	2068.5	2076.0	2006.6	1995.4
47.5°	10428.8	4512.1	2068.5	1839.7	1929.7	2121.0	2096.6	2057.3	2040.4	2002.9	1993.5
50°	11492.1	4776.5	2042.3	1770.3	1860.3	2087.3	2098.5	2046.0	2027.2	2012.2	2006.6
52.5°	12536.7	5078.4	2002.9	1710.3	1806.0	2046.0	2104.1	2034.8	2014.1	2002.9	1997.2
55°	13701.3	5455.4	1942.9	1659.7	1760.9	1993.5	2104.1	2017.9	1995.4	1997.2	1995.4
57.5°	15274.7	6064.9	1871.6	1616.5	1706.6	1929.7	2068.5	1999.1	1971.0	1972.9	1974.7
60°	17733.3	7139.4	1785.3	1573.4	1639.1	1854.7	2019.7	1957.9	1929.7	1937.2	1939.1
62.5°	21348.9	8716.6	1672.8	1509.7	1567.8	1774.1	1952.2	1905.4	1877.2	1896.0	1896.0
65°	25107.1	10108.1	1534.0	1429.0	1492.8	1685.9	1867.8	1839.7	1811.6	1854.7	1852.8
67.5°	26117.9	9796.8	1395.3	1340.9	1417.8	1588.4	1766.6	1751.6	1736.6	1811.6	1807.8
70°	23201.8	7865.2	1267.7	1250.9	1335.2	1483.4	1657.8	1657.8	1648.4	1704.7	1691.6
72.5°	17677.0	5577.3	1145.8	1155.2	1241.5	1369.0	1539.7	1552.8	1537.8	1565.9	1554.7
75°	9463.0	3191.8	1023.9	1050.2	1125.2	1252.7	1408.4	1421.5	1412.1	1410.3	1415.9
77.5°	3145.0	1560.3	896.4	937.7	1003.3	1132.7	1271.5	1292.1	1269.6	1265.9	1264.0
80°	1400.9	980.8	755.8	810.1	868.3	995.8	1127.1	1144.0	1119.6	1153.3	1110.2
82.5°	900.2	645.1	605.7	665.7	722.0	858.9	982.7	986.4	963.9	1119.6	954.6
85°	437.0	399.4	455.7	510.1	558.9	675.1	813.9	815.8	759.5	692.0	667.6
87.5°	217.5	232.5	303.8	352.6	376.9	463.2	592.6	581.4	557.0	506.3	467.0
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)