

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: P529170

Luminaire Tested: **GALN-SA4B-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19043 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

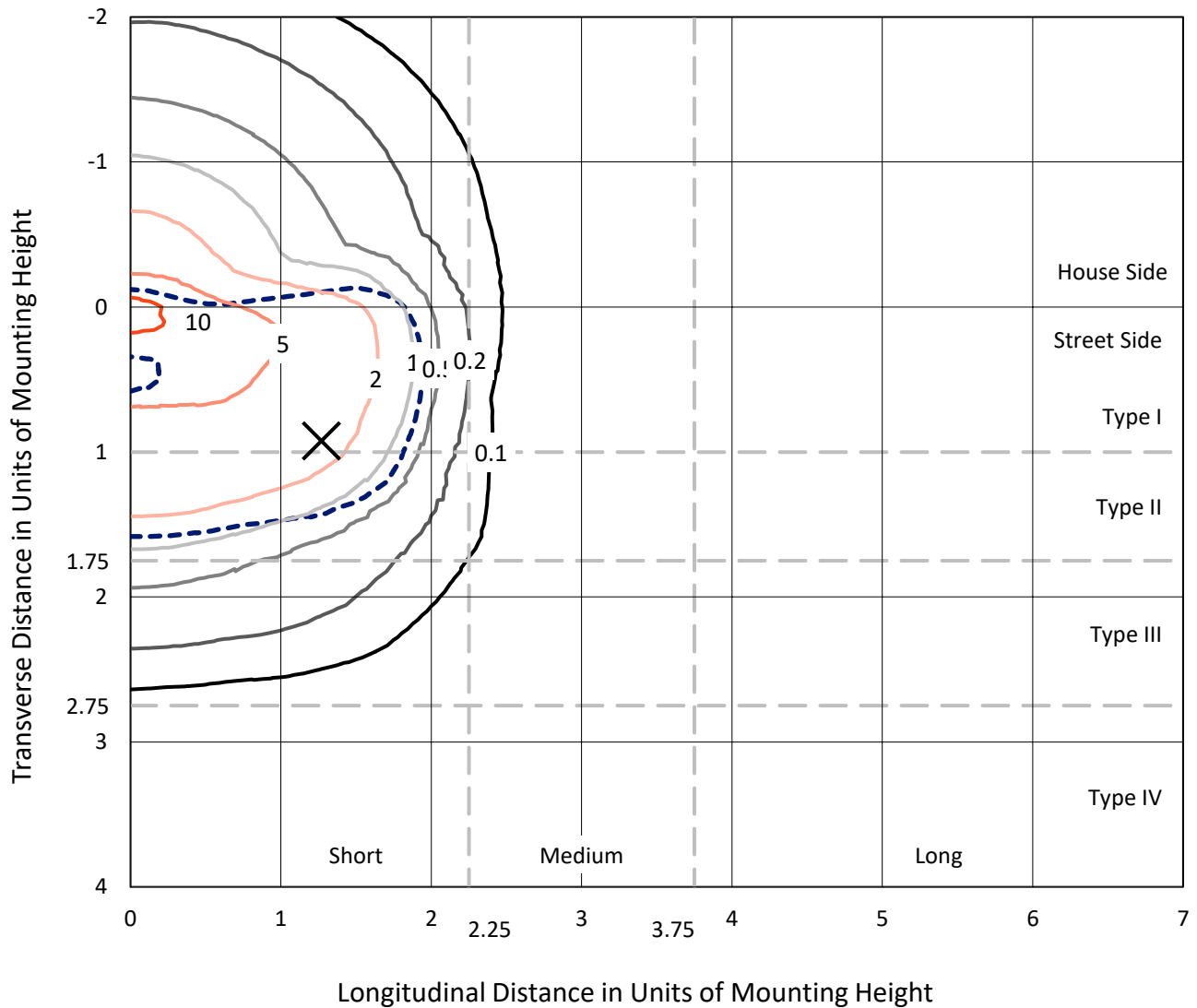
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

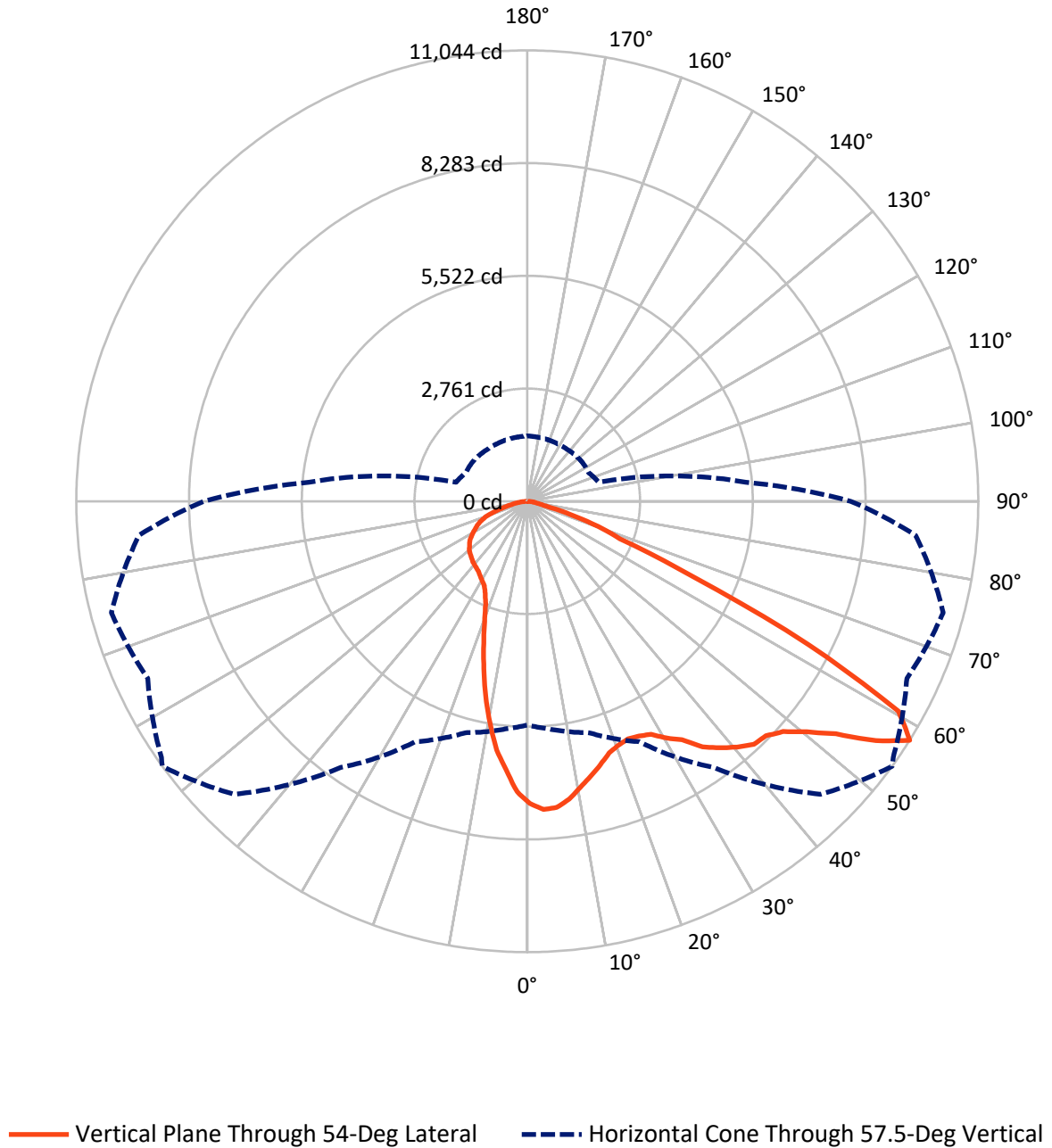
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5268.3	0.0	5268.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	13774.6	0.0	13774.6
	% Fixture	72.3	0.0	72.3
Total	Lumens	19043.0	0.0	19043.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.3	3.4
10°-20°	1478.0	7.8
20°-30°	2076.6	10.9
30°-40°	2903.1	15.2
40°-50°	3930.2	20.6
50°-60°	4787.1	25.1
60°-70°	2493.4	13.1
70°-80°	638.9	3.4
80°-90°	97.5	0.5
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°	19043.0	100.0
0°-180°	19043.0	100.0

Coefficient of Utilization



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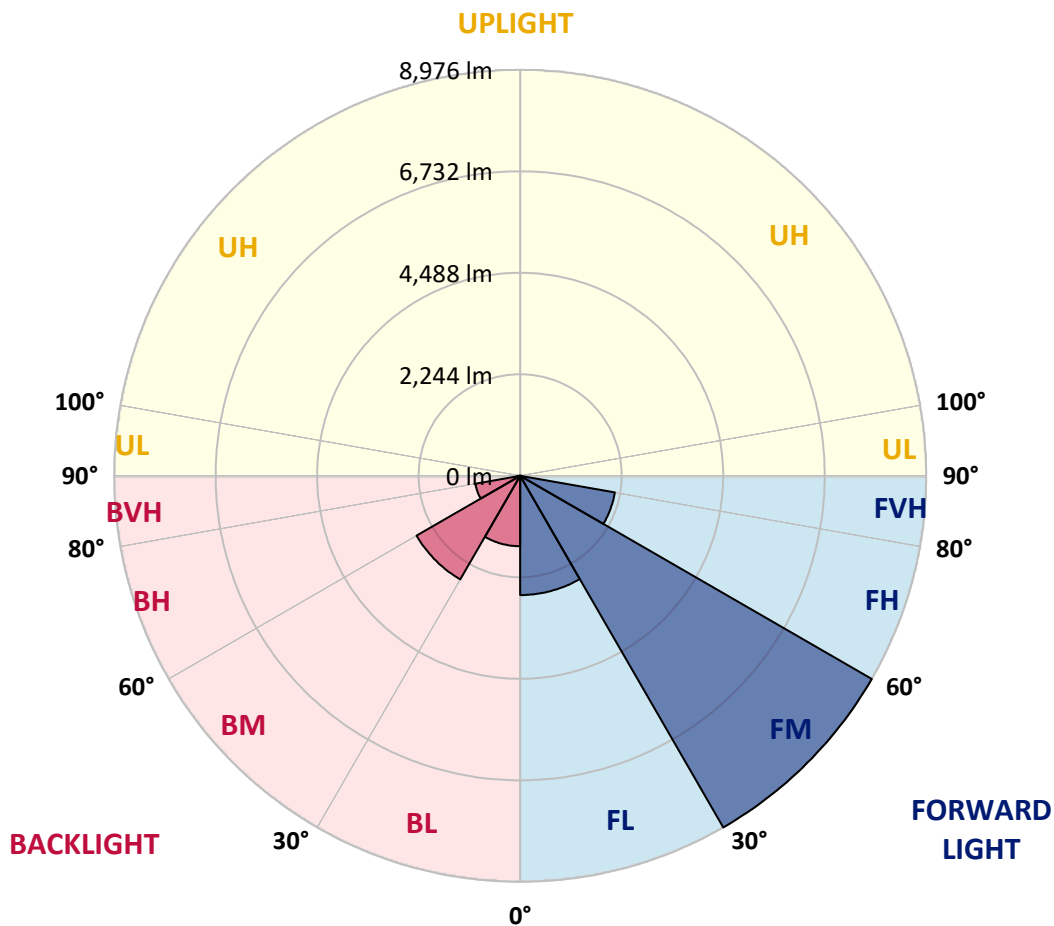
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2635.8	13.8			
FM (30°-60°)	8976.3	47.1			
FH (60°-80°)	2125.7	11.2			G2/5000
FVH (80°-90°)	36.8	0.2			G1/100
BL (0°-30°)	1557.1	8.2	B3/2500		
BM (30°-60°)	2644.1	13.9	B3/5000		
BH (60°-80°)	1006.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	60.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7401.8	7401.8	7401.8	7401.8	7401.8	7401.8	7401.8	7401.8	7401.8	7401.8	7401.8
2.5°	7612.3	7582.9	7587.8	7627.0	7578.0	7558.4	7558.4	7463.0	7470.3	7404.2	7387.1
5°	7436.1	7367.5	7414.0	7472.8	7482.6	7502.2	7534.0	7509.5	7441.0	7370.0	7254.9
7.5°	6975.9	7037.1	7054.2	7095.8	7184.0	7264.7	7365.1	7296.5	7294.1	7223.1	7154.6
10°	6572.0	6535.3	6628.3	6689.5	6836.4	6971.0	7125.2	7117.9	7154.6	7073.8	6956.3
12.5°	6170.6	6141.2	6185.3	6324.8	6530.4	6726.2	6909.8	6841.3	7037.1	7022.4	6770.3
15°	5744.7	5766.7	5830.4	5960.1	6229.4	6464.3	6696.9	6699.3	6873.1	6931.8	6594.1
17.5°	5446.1	5421.6	5502.4	5695.8	5935.6	6217.1	6481.5	6535.3	6802.1	6836.4	6540.2
20°	5223.4	5257.6	5362.9	5460.8	5737.4	6077.6	6376.2	6395.8	6787.4	6880.4	6454.5
22.5°	5169.5	5149.9	5184.2	5343.3	5570.9	5940.5	6319.9	6393.4	6785.0	6865.8	6293.0
25°	5113.2	5176.9	5174.4	5333.5	5499.9	5830.4	6366.4	6447.2	6914.7	6941.6	6315.0
27.5°	5240.5	5233.1	5301.7	5313.9	5519.5	5859.8	6464.3	6525.5	7130.1	7108.1	6332.2
30°	5367.8	5331.1	5372.7	5517.1	5612.5	6028.6	6733.6	6728.7	7409.1	7394.5	6386.0
32.5°	5524.4	5507.3	5534.2	5661.5	5823.0	6253.8	6961.2	7105.6	7693.1	7786.1	6572.0
35°	5553.8	5624.8	5688.4	5859.8	6089.8	6618.5	7389.6	7509.5	8021.1	8312.3	6926.9
37.5°	5739.8	5766.7	5916.1	6219.6	6430.1	7105.6	7661.3	7737.1	8319.7	8650.1	7301.4
40°	5938.1	5969.9	6195.1	6513.3	6802.1	7423.8	7915.8	7940.3	8415.1	8909.6	7546.2
42.5°	6207.3	6236.7	6459.4	6858.4	7245.1	7695.5	8141.0	8167.9	8407.8	9208.2	7935.4
45°	6486.4	6557.3	6819.2	7272.1	7619.6	8013.7	8192.4	8302.5	8476.3	9475.0	8251.1
47.5°	6878.0	6944.1	7159.5	7602.5	8008.8	8292.8	8429.8	8537.5	8640.3	9707.5	8454.3
50°	7294.1	7306.3	7568.2	7969.7	8268.3	8608.5	8872.9	8909.6	8855.7	9976.8	8799.4
52.5°	7600.1	7639.2	7842.4	8234.0	8679.5	9098.0	9460.3	9499.5	9394.2	10077.1	8916.9
55°	7093.4	7071.4	7401.8	7923.2	8956.1	9827.5	10353.7	10383.1	9785.8	10388.0	9301.2
57.5°	5482.8	5588.1	5869.5	6498.6	7957.4	10150.5	11043.9	10938.7	10255.8	10544.6	9546.0
60°	3984.8	3960.4	4148.8	4569.8	5996.8	8748.0	10441.8	10549.5	9871.5	9504.4	7871.8
62.5°	3245.6	3211.4	3226.0	3240.7	3869.8	5805.9	7729.8	7727.3	7602.5	6831.5	5309.0
65°	2594.5	2675.3	2682.7	2792.8	2873.6	3468.4	4479.3	4719.1	4109.7	3370.5	2445.2
67.5°	1955.7	1926.3	2024.2	2415.9	2567.6	2504.0	2445.2	2472.2	1757.4	1267.9	1194.5
70°	1152.9	1140.6	1258.1	1684.0	2114.8	1990.0	1843.1	1845.6	1206.7	886.1	986.4
72.5°	631.5	629.1	653.5	854.2	1201.8	1248.3	1106.4	1140.6	719.6	717.2	771.0
75°	352.5	345.1	337.8	376.9	433.2	457.7	467.5	472.4	494.4	553.2	575.2
77.5°	129.7	124.8	124.8	144.4	183.6	230.1	291.3	296.2	350.0	401.4	423.4
80°	44.1	49.0	66.1	90.6	122.4	164.0	198.3	203.2	247.2	281.5	288.8
82.5°	26.9	29.4	44.1	63.6	88.1	115.0	146.9	149.3	183.6	205.6	215.4
85°	12.2	14.7	24.5	39.2	56.3	75.9	78.3	78.3	75.9	78.3	73.4
87.5°	0.0	0.0	4.9	4.9	4.9	7.3	9.8	7.3	12.2	14.7	14.7
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°	7401.8	7401.8	7401.8	7401.8	7401.8	7401.8	7401.8	7401.8	7401.8	7401.8	7401.8
2.5°	7335.7	7308.8	7225.6	7152.1	7130.1	7032.2	6887.8	6904.9	6799.7	6848.6	6797.2
5°	7235.4	7144.8	6931.8	6841.3	6603.9	6496.2	6422.7	6239.1	6153.5	6136.3	6062.9
7.5°	6978.3	6922.0	6655.3	6410.5	6158.4	5943.0	5666.4	5477.9	5343.3	5306.6	5198.9
10°	6775.2	6650.4	6280.8	5908.7	5548.9	5174.4	4814.6	4533.1	4396.0	4236.9	4183.1
12.5°	6574.5	6386.0	5886.7	5409.4	4944.3	4471.9	4036.2	3693.6	3394.9	3324.0	3299.5
15°	6449.6	6121.7	5534.2	4959.0	4298.1	3681.3	3245.6	3020.4	2836.9	2761.0	2814.8
17.5°	6285.7	5903.8	5196.4	4430.3	3703.3	3135.5	2770.8	2631.3	2565.2	2572.5	2550.5
20°	6080.0	5698.2	4753.4	3950.6	3172.2	2719.4	2511.3	2459.9	2469.7	2486.8	2479.5
22.5°	5933.2	5448.5	4432.8	3461.0	2741.4	2489.3	2403.6	2366.9	2398.7	2413.4	2401.2
25°	5820.6	5235.6	4043.6	3027.8	2491.7	2359.6	2320.4	2318.0	2366.9	2386.5	2374.3
27.5°	5717.8	5037.3	3656.8	2697.3	2325.3	2259.2	2247.0	2276.3	2308.2	2327.7	2344.9
30°	5656.6	4885.6	3294.6	2420.8	2242.1	2210.3	2188.2	2215.2	2232.3	2251.9	2242.1
32.5°	5715.3	4777.9	2944.6	2264.1	2173.5	2141.7	2171.1	2154.0	2183.3	2200.5	2173.5
35°	5898.9	4682.4	2694.9	2180.9	2095.2	2107.5	2112.4	2105.0	2117.2	2102.6	2134.4
37.5°	6080.0	4648.2	2464.8	2109.9	2058.5	2058.5	2053.6	2038.9	2063.4	2058.5	2073.2
40°	6310.1	4670.2	2269.0	2034.0	2024.2	2019.3	1999.8	1997.3	1987.5	1990.0	1994.9
42.5°	6510.8	4719.1	2156.4	1985.1	1992.4	2002.2	1965.5	1936.1	1948.4	1923.9	1923.9
45°	6723.8	4763.2	2056.1	1950.8	1943.5	1941.0	1911.6	1894.5	1884.7	1887.2	1909.2
47.5°	7059.1	4826.8	1980.2	1904.3	1909.2	1872.5	1865.1	1843.1	1852.9	1867.6	1870.0
50°	7296.5	4961.5	1921.4	1850.4	1867.6	1843.1	1799.0	1789.3	1789.3	1813.7	1808.8
52.5°	7463.0	5149.9	1865.1	1791.7	1799.0	1779.5	1764.8	1742.8	1728.1	1762.3	1779.5
55°	7972.1	5463.2	1850.4	1742.8	1740.3	1720.7	1693.8	1671.8	1664.4	1669.3	1703.6
57.5°	7923.2	5365.3	1803.9	1657.1	1652.2	1625.3	1598.3	1591.0	1588.5	1593.4	1603.2
60°	6432.5	3962.8	1610.6	1559.2	1551.8	1546.9	1520.0	1490.6	1476.0	1490.6	1478.4
62.5°	4256.5	2653.3	1419.7	1441.7	1446.6	1434.3	1390.3	1360.9	1365.8	1382.9	1356.0
65°	2090.3	1559.2	1287.5	1346.2	1351.1	1316.9	1275.2	1241.0	1223.8	1238.5	1226.3
67.5°	1194.5	1192.0	1179.8	1241.0	1238.5	1204.3	1138.2	1108.8	1079.4	1084.3	1077.0
70°	1013.3	1032.9	1057.4	1094.1	1091.7	1052.5	974.2	952.1	910.5	905.6	893.4
72.5°	797.9	832.2	886.1	913.0	891.0	842.0	790.6	753.9	717.2	695.1	702.5
75°	592.3	641.3	670.7	687.8	653.5	626.6	585.0	540.9	496.9	477.3	470.0
77.5°	430.8	445.5	472.4	484.6	462.6	435.7	411.2	367.2	325.5	298.6	291.3
80°	301.1	310.9	330.4	330.4	330.4	318.2	286.4	242.3	215.4	190.9	186.0
82.5°	210.5	220.3	239.9	230.1	227.6	212.9	193.4	159.1	129.7	112.6	107.7
85°	73.4	80.8	97.9	117.5	124.8	122.4	110.1	88.1	68.5	56.3	51.4
87.5°	17.1	17.1	19.6	17.1	17.1	19.6	17.1	17.1	17.1	12.2	9.8
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)