

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: P652352

Luminaire Tested: **GALN-SA4B-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16635.8 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

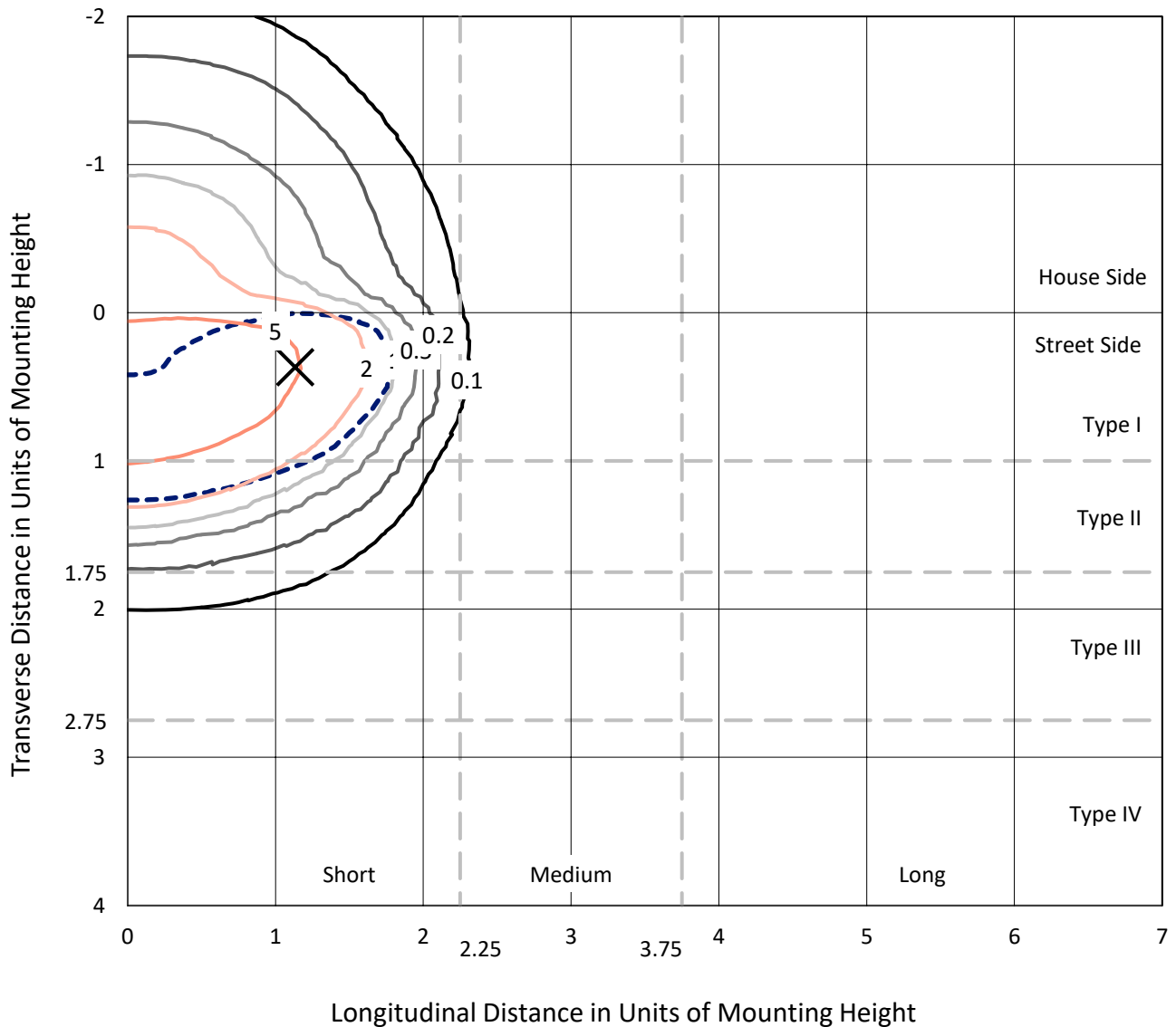
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652352
 CATALOG NUMBER: GALN-SA4B-840-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

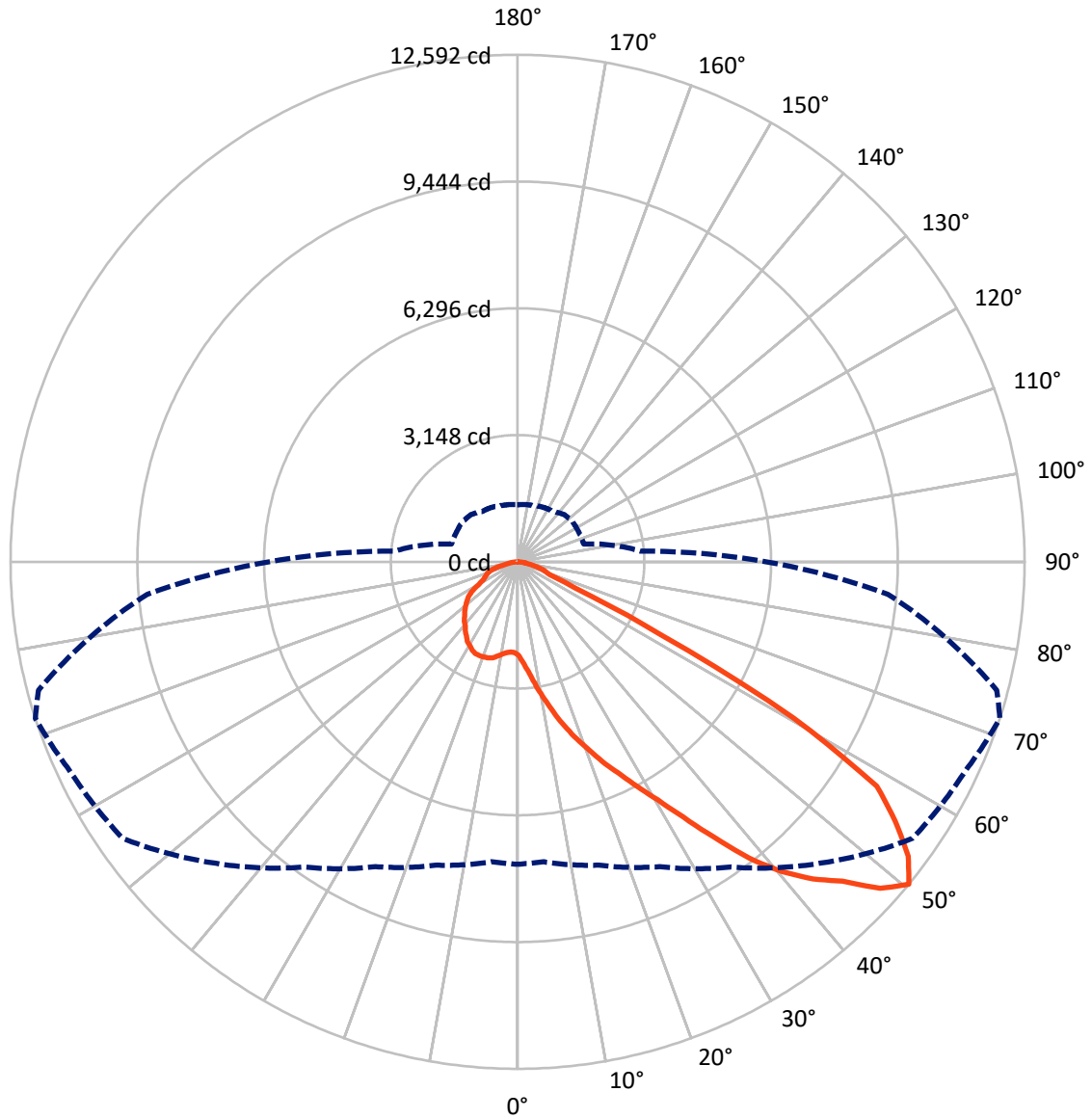
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

REPORT NUMBER: P652352
CATALOG NUMBER: GALN-SA4B-840-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P652352
 CATALOG NUMBER: GALN-SA4B-840-U-T2R-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3811.4	0.0	3811.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	12824.5	0.0	12824.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	16635.8	0.0	16635.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.4	1.6
10°-20°	1018.3	6.1
20°-30°	1974.5	11.9
30°-40°	3271.0	19.7
40°-50°	4576.9	27.5
50°-60°	3861.2	23.2
60°-70°	1176.9	7.1
70°-80°	412.9	2.5
80°-90°	71.8	0.4
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°	16635.8	100.0
0°-180°	16635.8	100.0

Coefficient of Utilization

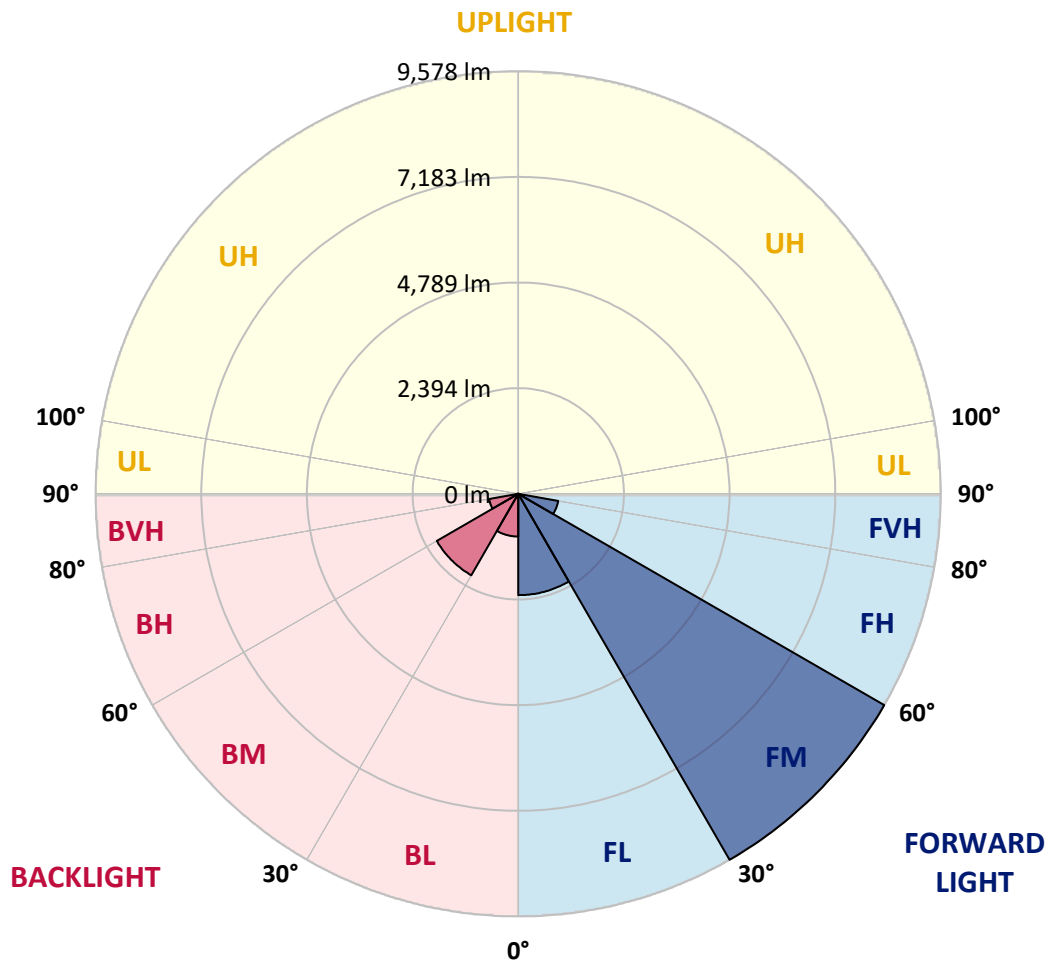


REPORT NUMBER: P652352
 CATALOG NUMBER: GALN-SA4B-840-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2296.3	13.8			
FM (30°-60°)	9577.7	57.6			
FH (60°-80°)	918.3	5.5			G1/1800
FVH (80°-90°)	32.2	0.2			G1/100
BL (0°-30°)	968.9	5.8	B2/1000		
BM (30°-60°)	2131.4	12.8	B2/2500		
BH (60°-80°)	671.5	4.0	B2/1000		G2/1000
BVH (80°-90°)	39.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





REPORT NUMBER: P652352

CATALOG NUMBER: GALN-SA4B-840-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2315.9	2315.9	2315.9	2315.9	2315.9	2315.9	2315.9	2315.9	2315.9	2315.9	2315.9
2.5°	2978.7	2960.2	2904.6	2886.1	2820.2	2700.8	2659.7	2538.1	2486.7	2439.3	2383.8
5°	3767.1	3680.6	3674.5	3569.5	3417.2	3328.7	3065.2	2888.1	2725.5	2643.2	2490.8
7.5°	4269.4	4271.4	4271.4	4185.0	4063.5	3839.2	3602.4	3283.3	3038.4	2916.9	2657.6
10°	4746.9	4705.8	4683.2	4675.0	4592.6	4374.4	4121.2	3726.0	3390.4	3248.4	2783.1
12.5°	5084.6	5049.6	5101.0	5074.3	5014.5	4872.6	4633.7	4183.0	3763.0	3571.6	2984.9
15°	5245.1	5269.9	5311.0	5385.1	5358.3	5304.9	5041.4	4652.2	4164.4	3948.2	3163.9
17.5°	5492.2	5424.2	5473.6	5566.2	5640.4	5615.7	5465.4	4991.9	4561.7	4296.2	3404.8
20°	5665.1	5626.0	5650.7	5757.7	5813.3	5953.3	5875.1	5436.6	4942.6	4662.6	3688.9
22.5°	6159.1	6101.5	6021.2	6037.7	6058.2	6157.0	6175.6	5924.4	5385.1	5088.7	3958.6
25°	6768.5	6715.0	6620.3	6523.5	6463.8	6445.3	6509.1	6307.3	5809.2	5502.5	4248.8
27.5°	7439.6	7349.0	7289.3	7089.5	6929.0	6904.3	6873.4	6764.3	6311.5	5980.0	4576.1
30°	8092.1	8020.0	7939.8	7620.7	7454.0	7427.2	7274.8	7305.8	6857.0	6488.5	4946.7
32.5°	8586.1	8592.3	8409.1	8168.2	8011.8	7869.7	7814.2	7902.7	7556.9	7260.4	5360.4
35°	8985.5	9004.0	8829.1	8610.8	8442.0	8540.9	8516.1	8557.3	8392.7	8030.4	5842.1
37.5°	9374.5	9281.9	9094.6	8989.6	8901.1	9063.7	9273.7	9308.7	9339.6	8913.4	6402.0
40°	9438.4	9446.6	9337.5	9411.6	9300.5	9545.4	10033.3	9988.0	10113.5	9741.0	7009.3
42.5°	9347.8	9366.3	9409.5	9514.6	9782.2	10076.5	10801.1	10615.9	10768.2	10436.7	7600.1
45°	9199.6	9123.4	9176.9	9576.3	10039.4	10694.1	11503.1	11359.0	11309.6	11031.6	8304.1
47.5°	8491.4	8569.7	8736.4	9228.4	9924.2	10801.1	12001.2	11968.3	12116.5	11920.9	8944.3
50°	7509.5	7478.7	7799.8	8353.5	9251.0	10591.1	11974.5	12273.0	12592.0	12320.3	9230.5
52.5°	5623.9	5788.6	6064.5	6752.0	8032.4	9446.6	11389.8	11888.0	12147.4	12089.8	8999.9
55°	3555.1	3604.5	3771.2	4588.5	5741.3	7581.5	9763.6	10918.5	11381.6	11597.7	8787.9
57.5°	1727.1	1634.5	1838.3	2494.9	3316.3	5099.0	7530.1	9510.4	10517.0	10908.2	8326.7
60°	901.6	936.6	1016.9	1251.6	1714.7	2647.3	4693.5	6338.2	7876.0	8477.0	6311.5
62.5°	747.2	759.6	813.1	930.5	1140.4	1523.3	2396.1	3089.8	4016.2	4557.5	3590.1
65°	634.0	640.2	697.9	776.1	909.9	1072.5	1233.1	1290.7	1562.4	1603.6	1276.3
67.5°	529.1	535.2	596.9	671.1	757.6	800.8	841.9	837.8	868.7	856.4	854.3
70°	407.5	413.8	477.6	555.8	599.0	574.3	702.0	730.7	743.1	753.5	769.9
72.5°	294.3	306.7	356.2	411.7	389.0	446.7	578.4	621.7	638.2	644.3	664.9
75°	214.1	218.2	230.5	214.1	247.0	310.8	407.5	461.1	481.7	487.9	518.7
77.5°	94.7	96.7	98.8	123.5	158.5	193.5	242.9	286.1	315.0	323.2	331.4
80°	49.4	51.5	63.8	84.4	113.2	142.0	177.0	201.8	220.3	222.4	230.5
82.5°	30.9	33.0	45.2	59.7	80.3	105.0	129.7	150.3	164.7	166.8	168.8
85°	14.4	18.5	26.7	37.1	53.5	68.0	70.0	59.7	63.8	65.9	61.7
87.5°	4.1	6.1	8.2	6.1	8.2	8.2	10.3	12.4	12.4	12.4	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652352

CATALOG NUMBER: GALN-SA4B-840-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2315.9	2315.9	2315.9	2315.9	2315.9	2315.9	2315.9	2315.9	2315.9	2315.9	2315.9
2.5°	2352.9	2334.4	2262.3	2235.5	2165.6	2177.9	2140.8	2138.8	2130.6	2128.5	2126.5
5°	2410.6	2352.9	2266.4	2200.6	2161.5	2157.3	2130.6	2130.6	2138.8	2145.0	2130.6
7.5°	2505.3	2439.3	2293.2	2231.4	2196.4	2190.3	2171.7	2157.3	2175.8	2169.7	2153.2
10°	2614.3	2499.0	2344.7	2291.1	2233.5	2219.1	2219.1	2225.3	2194.4	2204.7	2188.2
12.5°	2735.8	2581.4	2410.6	2348.7	2280.9	2272.6	2268.5	2223.2	2239.7	2231.4	2190.3
15°	2890.2	2676.1	2494.9	2390.0	2332.3	2295.3	2241.8	2233.5	2223.2	2202.7	2184.1
17.5°	3057.0	2779.0	2534.0	2402.3	2315.9	2289.1	2247.9	2204.7	2173.8	2177.9	2163.6
20°	3199.0	2873.7	2548.5	2414.7	2303.5	2252.0	2188.2	2161.5	2128.5	2126.5	2124.4
22.5°	3367.8	3001.4	2569.1	2381.7	2266.4	2212.9	2169.7	2122.3	2099.7	2070.9	2085.3
25°	3569.5	3050.7	2573.1	2363.2	2239.7	2145.0	2122.3	2070.9	2062.6	2021.5	2029.8
27.5°	3715.6	3077.5	2540.2	2305.5	2177.9	2105.9	2064.7	2027.7	2013.3	1982.4	1974.2
30°	3911.2	3118.7	2470.3	2233.5	2116.2	2035.9	2011.2	2002.9	1961.8	1928.8	1924.7
32.5°	4133.5	3145.4	2424.9	2159.4	2052.4	1990.6	2002.9	1963.8	1912.3	1883.6	1875.3
35°	4310.5	3155.8	2311.7	2075.0	2009.1	1970.0	1955.6	1947.3	1873.2	1846.5	1825.9
37.5°	4580.3	3133.1	2217.0	2015.3	1961.8	1947.3	1935.1	1879.5	1795.0	1755.9	1727.1
40°	4895.2	3126.9	2095.6	1930.9	1916.5	1933.0	1895.9	1809.4	1692.1	1648.9	1628.3
42.5°	5197.8	3170.1	2019.4	1885.6	1867.1	1873.2	1821.8	1692.1	1634.5	1609.8	1576.9
45°	5704.2	3260.7	1893.8	1815.6	1807.4	1803.3	1741.5	1605.6	1572.8	1541.8	1535.7
47.5°	6161.2	3201.0	1813.5	1743.6	1751.8	1729.2	1597.4	1554.2	1517.2	1486.3	1476.0
50°	6187.9	3059.0	1700.3	1688.0	1690.1	1651.0	1525.4	1496.6	1449.2	1428.6	1414.2
52.5°	6048.0	2826.3	1595.4	1599.5	1605.6	1541.8	1436.8	1416.2	1377.1	1348.4	1340.1
55°	5654.8	2464.0	1492.4	1508.9	1525.4	1403.9	1371.0	1319.5	1288.7	1247.5	1249.6
57.5°	4981.7	1984.4	1348.4	1375.1	1410.1	1276.3	1251.6	1187.7	1142.5	1109.5	1105.4
60°	3338.9	1412.1	1132.2	1142.5	1220.7	1167.2	1165.1	1101.3	1039.6	1010.7	994.2
62.5°	1970.0	1078.7	977.8	967.5	965.5	996.3	1047.8	1025.2	944.9	889.3	905.8
65°	1031.3	932.5	909.9	874.9	854.3	846.0	885.2	895.5	841.9	782.2	778.1
67.5°	866.7	866.7	848.1	835.8	806.9	772.0	747.2	714.3	706.1	689.6	669.0
70°	788.4	809.0	802.8	774.0	749.3	710.2	646.4	592.8	541.4	522.8	535.2
72.5°	687.5	708.1	708.1	693.7	660.8	601.1	539.3	477.6	434.4	401.4	397.3
75°	529.1	539.3	564.1	547.6	504.3	467.3	403.5	339.7	298.5	267.6	261.5
77.5°	337.6	354.1	354.1	352.0	321.1	286.1	245.0	199.7	168.8	146.2	139.9
80°	224.4	234.6	242.9	234.6	214.1	187.3	156.4	125.6	102.9	84.4	80.3
82.5°	164.7	177.0	183.2	175.0	154.4	133.8	111.2	88.6	65.9	51.5	47.3
85°	63.8	65.9	74.1	88.6	86.5	84.4	68.0	49.4	37.1	26.7	24.7
87.5°	16.5	14.4	16.5	16.5	14.4	12.4	12.4	12.4	12.4	6.1	8.2
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)