

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: P529232

Luminaire Tested: **GALN-SA4B-760-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-760-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19192 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

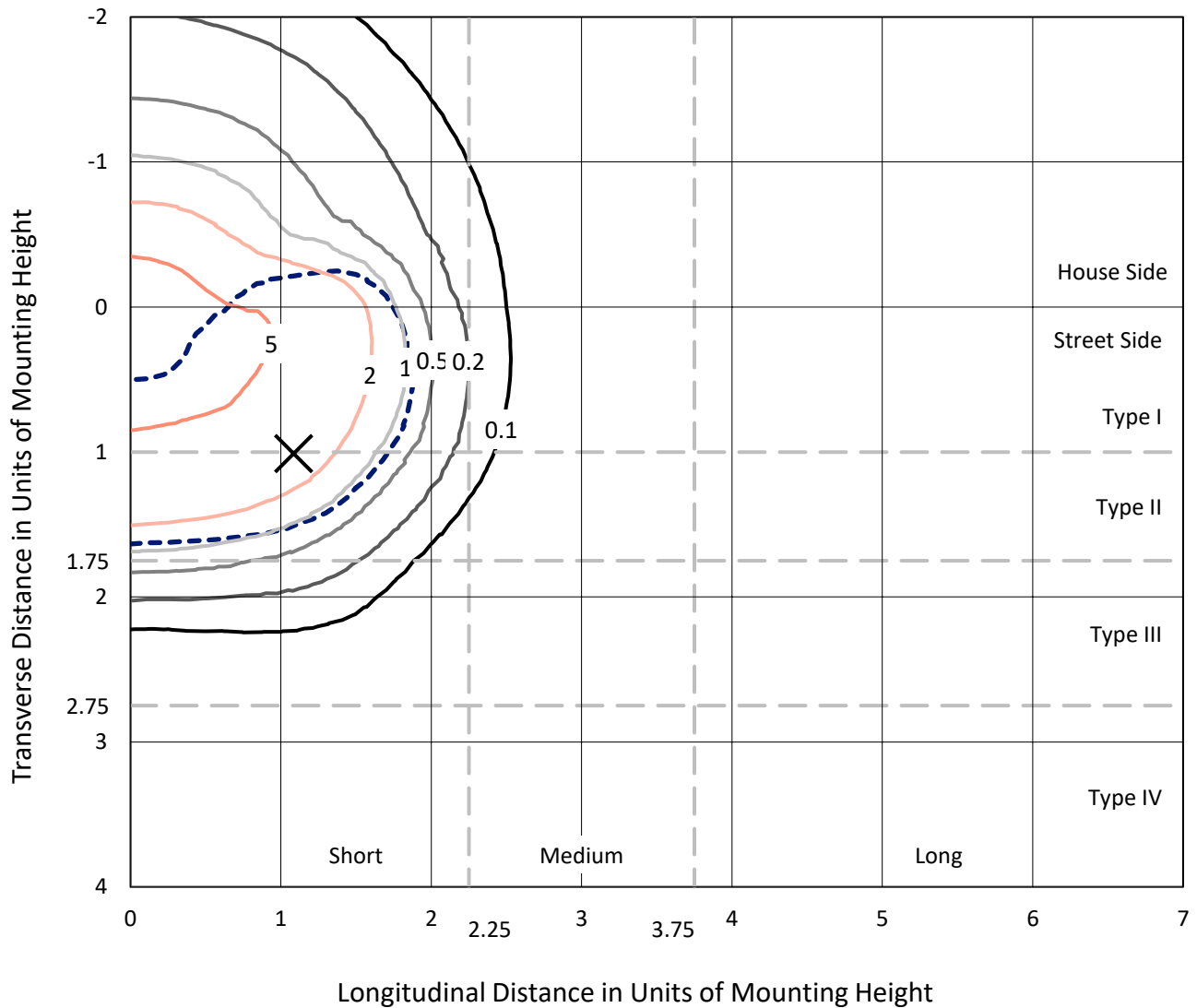
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

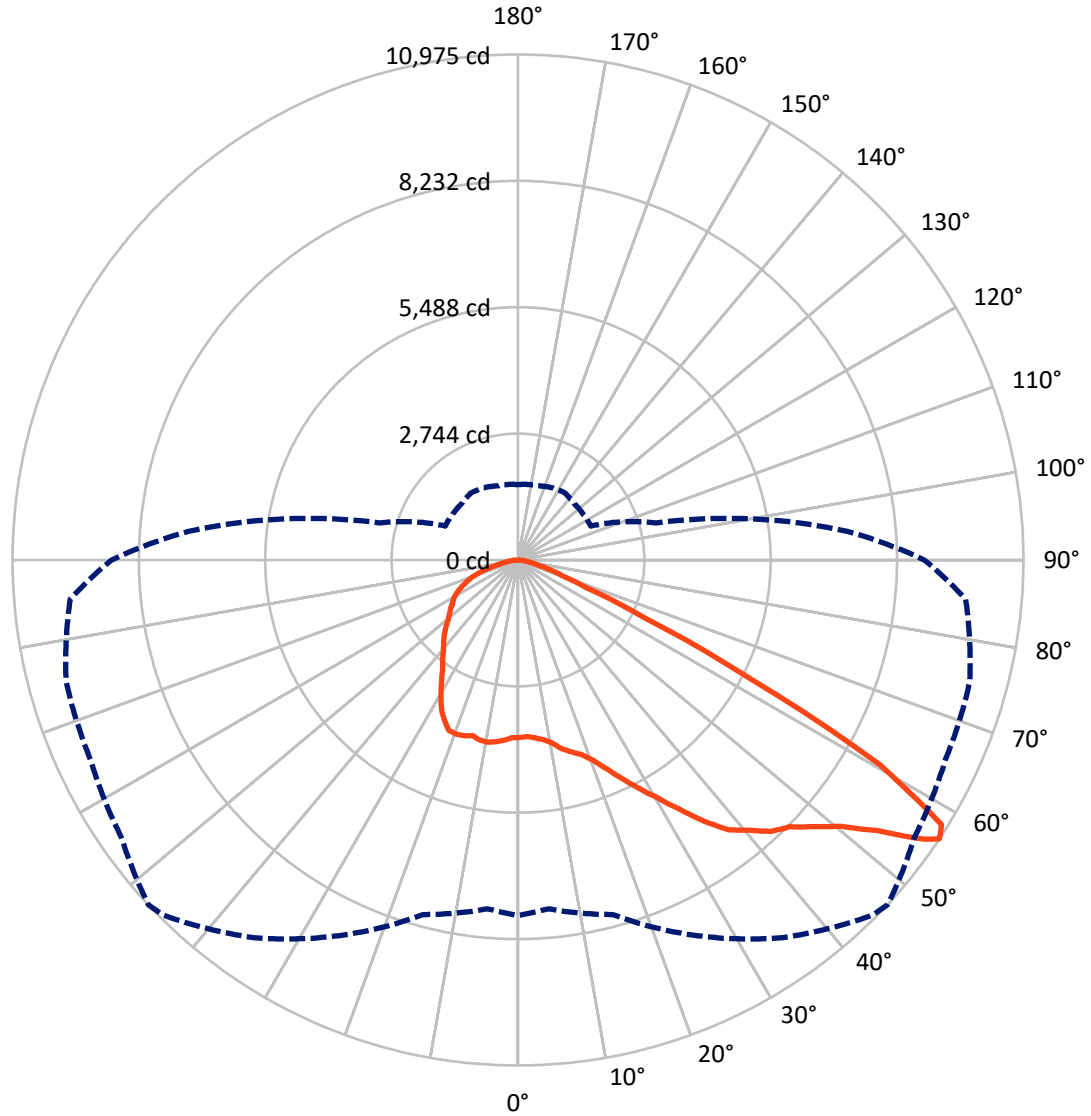
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6081.7	0.0	6081.7
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	13110.3	0.0	13110.3
	% Fixture	68.3	0.0	68.3
Total	Lumens	19192.0	0.0	19192.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.6	2.0
10°-20°	1184.9	6.2
20°-30°	2094.6	10.9
30°-40°	3146.1	16.4
40°-50°	4317.7	22.5
50°-60°	5144.0	26.8
60°-70°	2201.3	11.5
70°-80°	623.0	3.2
80°-90°	104.8	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°	19192.0	100.0
0°-180°	19192.0	100.0

Coefficient of Utilization



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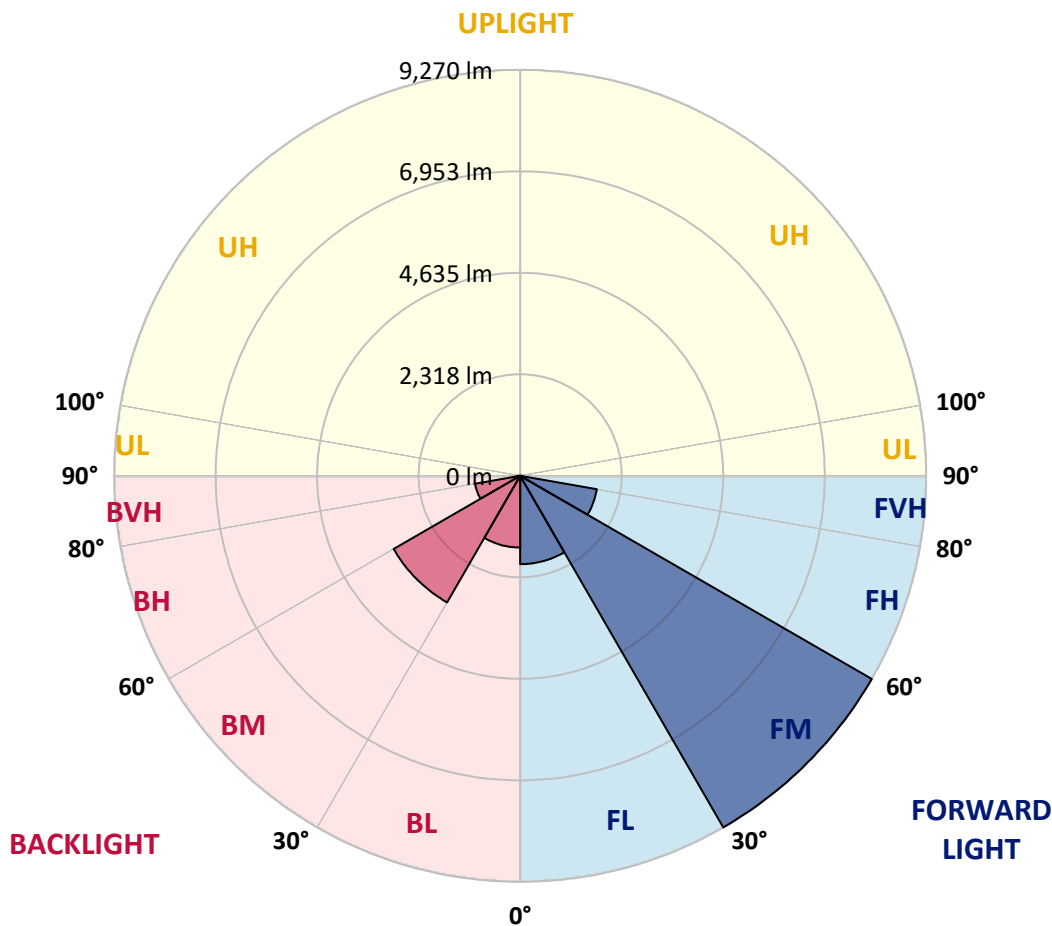
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2017.7	10.5			
FM (30°-60°)	9270.2	48.3			
FH (60°-80°)	1777.9	9.3			G1/1800
FVH (80°-90°)	44.5	0.2			G1/100
BL (0°-30°)	1637.4	8.5	B3/2500		
BM (30°-60°)	3337.5	17.4	B3/5000		
BH (60°-80°)	1046.4	5.5	B3/2500		G3/2500
BVH (80°-90°)	60.3	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°	47°	55°	65°	75°	85°
0°	3855.1	3855.1	3855.1	3855.1	3855.1	3855.1	3855.1	3855.1	3855.1	3855.1	3855.1
2.5°	3840.4	3833.1	3828.2	3867.3	3852.6	3855.1	3840.4	3855.1	3864.9	3842.9	3874.7
5°	3833.1	3855.1	3835.5	3847.7	3879.6	3869.8	3879.6	3908.9	3901.6	3894.3	3884.5
7.5°	3901.6	3904.0	3918.7	3923.6	3933.4	3923.6	3938.3	3965.2	3957.9	3916.3	3921.2
10°	3999.5	4004.4	4006.8	4033.8	4050.9	4053.4	4036.2	4011.7	4009.3	4065.6	4026.4
12.5°	4112.1	4099.9	4129.2	4139.0	4158.6	4180.6	4202.7	4151.3	4183.1	4185.5	4139.0
15°	4276.1	4288.3	4254.1	4254.1	4261.4	4263.9	4325.0	4300.6	4295.7	4268.7	4288.3
17.5°	4520.9	4437.6	4435.2	4400.9	4396.0	4415.6	4437.6	4457.2	4523.3	4469.5	4364.2
20°	4699.5	4719.1	4648.1	4606.5	4613.9	4657.9	4635.9	4724.0	4770.5	4682.4	4579.6
22.5°	5015.3	4949.2	4966.3	4873.3	4880.7	4927.2	4924.7	5015.3	5042.2	4902.7	4753.4
25°	5228.2	5211.1	5225.8	5152.4	5162.1	5198.9	5257.6	5406.9	5362.9	5208.7	4863.5
27.5°	5539.1	5504.8	5492.6	5465.7	5455.9	5553.8	5622.3	5781.4	5749.6	5524.4	5059.3
30°	5857.3	5835.3	5847.5	5737.4	5776.5	5984.6	6004.1	6222.0	6207.3	5810.8	5277.2
32.5°	6077.6	6089.8	6111.8	6050.7	6224.4	6390.9	6457.0	6704.2	6716.4	6302.8	5698.2
35°	6432.5	6390.9	6403.1	6474.1	6554.9	6858.4	6966.1	7130.1	7232.9	6819.2	6102.1
37.5°	6655.2	6699.3	6647.9	6760.5	6971.0	7335.7	7433.6	7602.5	7710.2	7328.3	6652.8
40°	7002.8	6931.8	6968.5	7049.3	7264.7	7739.6	7712.6	7886.4	7920.7	7761.6	7166.8
42.5°	7377.3	7343.0	7291.6	7475.2	7656.3	8001.5	8055.3	7974.5	8148.3	8185.0	7901.1
45°	7825.2	7866.8	7874.2	7879.1	8038.2	8339.2	8265.8	8194.8	8395.5	8662.3	8356.4
47.5°	8241.3	8109.2	8204.6	8336.8	8562.0	8564.4	8650.1	8481.2	8694.1	8931.6	8767.6
50°	8380.8	8317.2	8444.5	8694.1	9041.7	9078.4	9088.2	8848.3	8958.5	9147.0	8909.5
52.5°	8327.0	8305.0	8630.5	9017.2	9526.4	9712.4	9761.3	9465.2	9526.4	9440.7	9222.8
55°	8070.0	8136.1	8464.1	9252.2	10033.0	10608.2	10701.2	10326.7	9937.6	10003.7	9763.8
56°	7717.5	7602.5	7969.6	8985.4	10011.0	10899.5	10975.4	10507.9	10243.5	10157.9	9758.9
57.5°	6547.5	6398.2	6880.4	8084.7	9455.4	10789.4	10845.7	10583.8	10192.1	10018.3	9046.6
60°	3833.1	3906.5	4518.4	5575.8	7294.1	8845.9	9034.4	9225.3	8963.4	8185.0	6733.6
62.5°	1850.4	1803.9	2242.1	3196.7	4445.0	5646.8	5590.5	6126.5	6420.3	5815.7	4251.6
65°	969.3	964.4	1223.8	1745.2	2442.8	2966.6	3018.0	3306.8	3710.7	2996.0	2158.9
67.5°	712.3	731.9	861.6	1226.3	1571.4	1603.2	1595.9	1740.3	1779.5	1505.3	1326.6
70°	558.1	567.9	663.3	932.6	1170.0	1047.6	1025.6	1042.7	1157.8	1206.7	1148.0
72.5°	403.9	413.7	494.4	629.1	731.9	714.7	729.4	824.9	966.8	1018.2	957.0
75°	269.2	276.6	320.6	384.3	433.2	467.5	494.4	604.6	736.8	766.1	736.8
77.5°	186.0	193.4	222.7	271.7	276.6	298.6	308.4	359.8	440.6	477.3	457.7
80°	105.3	105.3	119.9	139.5	171.3	200.7	205.6	247.2	283.9	308.4	313.3
82.5°	49.0	51.4	63.6	85.7	112.6	139.5	144.4	171.3	198.3	222.7	230.1
85°	24.5	26.9	36.7	51.4	68.5	83.2	80.8	83.2	88.1	83.2	85.7
87.5°	7.3	7.3	9.8	12.2	9.8	12.2	12.2	14.7	17.1	19.6	22.0
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°	3855.1	3855.1	3855.1	3855.1	3855.1	3855.1	3855.1	3855.1	3855.1	3855.1	3855.1
2.5°	3877.1	3884.5	3835.5	3882.0	3864.9	3862.4	3896.7	3891.8	3904.0	3899.1	3869.8
5°	3879.6	3862.4	3913.8	3867.3	3889.4	3935.9	3904.0	3977.5	3940.8	3965.2	3911.4
7.5°	3955.4	3960.3	3950.5	3970.1	3960.3	3982.4	3965.2	3982.4	3953.0	3955.4	4004.4
10°	4021.5	4006.8	4024.0	3999.5	4016.6	4009.3	3970.1	3957.9	3967.7	3955.4	3987.3
12.5°	4143.9	4117.0	4104.8	4075.4	4055.8	3982.4	3921.2	3886.9	3933.4	3940.8	3926.1
15°	4268.7	4271.2	4214.9	4148.8	4026.4	3916.3	3931.0	3943.2	3943.2	3962.8	3926.1
17.5°	4347.1	4347.1	4295.7	4163.5	4038.7	3975.0	3960.3	3921.2	3886.9	3882.0	3879.6
20°	4484.1	4442.5	4325.0	4161.0	4033.8	4004.4	3894.3	3801.2	3730.3	3705.8	3703.3
22.5°	4640.8	4535.5	4371.5	4165.9	4026.4	3984.8	3779.2	3639.7	3512.4	3458.6	3465.9
25°	4785.2	4616.3	4398.5	4143.9	3999.5	3798.8	3568.7	3375.3	3243.2	3199.1	3177.1
27.5°	4885.6	4702.0	4398.5	4163.5	3899.1	3590.7	3355.8	3108.5	2993.5	2964.1	2969.0
30°	5020.2	4809.7	4474.4	4121.9	3698.4	3321.5	3040.0	2878.5	2809.9	2785.5	2802.6
32.5°	5335.9	5091.2	4579.6	4021.5	3461.0	3052.3	2824.6	2734.1	2633.7	2584.7	2567.6
35°	5678.6	5358.0	4682.4	3852.6	3194.2	2807.5	2665.5	2582.3	2462.4	2408.5	2418.3
37.5°	6163.2	5700.6	4689.7	3573.6	2905.4	2670.4	2540.7	2411.0	2313.1	2229.8	2205.4
40°	6816.8	6168.1	4672.6	3279.9	2672.9	2508.9	2413.4	2251.9	2141.7	2083.0	2095.2
42.5°	7392.0	6716.4	4601.6	2947.0	2462.4	2398.7	2291.0	2131.9	2024.2	1963.0	1958.1
45°	7876.6	7120.3	4467.0	2663.1	2286.1	2276.3	2151.5	2029.1	1943.5	1887.2	1911.6
47.5°	8324.5	7445.8	4263.9	2379.1	2124.6	2144.2	2024.2	1948.4	1894.5	1843.1	1840.7
50°	8486.1	7440.9	4085.2	2144.2	1994.9	1985.1	1980.2	1899.4	1843.1	1799.0	1818.6
52.5°	8755.3	7524.2	3891.8	1982.6	1877.4	1879.8	1896.9	1838.2	1774.6	1747.6	1772.1
55°	9142.1	7536.4	3465.9	1794.1	1779.5	1796.6	1796.6	1757.4	1703.6	1681.6	1669.3
56°	8826.3	7171.7	3108.5	1745.2	1730.5	1730.5	1777.0	1733.0	1666.9	1649.7	1635.0
57.5°	8141.0	6283.2	2601.9	1686.4	1664.4	1698.7	1723.2	1676.7	1615.5	1591.0	1605.7
60°	5615.0	4251.6	1955.7	1559.2	1559.2	1615.5	1635.0	1566.5	1539.6	1537.1	1517.6
62.5°	3277.4	2477.0	1529.8	1444.1	1449.0	1495.5	1510.2	1471.1	1436.8	1478.4	1498.0
65°	1737.8	1478.4	1312.0	1321.7	1324.2	1360.9	1424.5	1422.1	1419.7	1431.9	1434.3
67.5°	1258.1	1228.7	1192.0	1182.2	1187.1	1214.0	1277.7	1326.6	1324.2	1294.8	1272.8
70°	1121.0	1079.4	1057.4	1059.8	1040.3	1072.1	1123.5	1155.3	1099.0	1064.7	1050.1
72.5°	932.6	920.3	905.6	908.1	868.9	861.6	802.8	802.8	788.2	778.4	795.5
75°	712.3	707.4	714.7	702.5	660.9	616.8	582.5	550.7	501.8	482.2	472.4
77.5°	450.4	465.1	482.2	455.3	438.1	406.3	372.0	340.2	301.1	279.0	279.0
80°	306.0	318.2	330.4	325.5	306.0	276.6	249.7	215.4	188.5	171.3	168.9
82.5°	232.5	242.3	259.5	239.9	220.3	195.8	173.8	149.3	124.8	105.3	105.3
85°	83.2	95.5	105.3	115.0	122.4	124.8	107.7	88.1	71.0	56.3	53.8
87.5°	22.0	24.5	26.9	24.5	24.5	24.5	26.9	24.5	22.0	17.1	17.1
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)