

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: P531832

Luminaire Tested: **GALN-SA7A-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531832
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-SA7A-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA 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: 19964 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

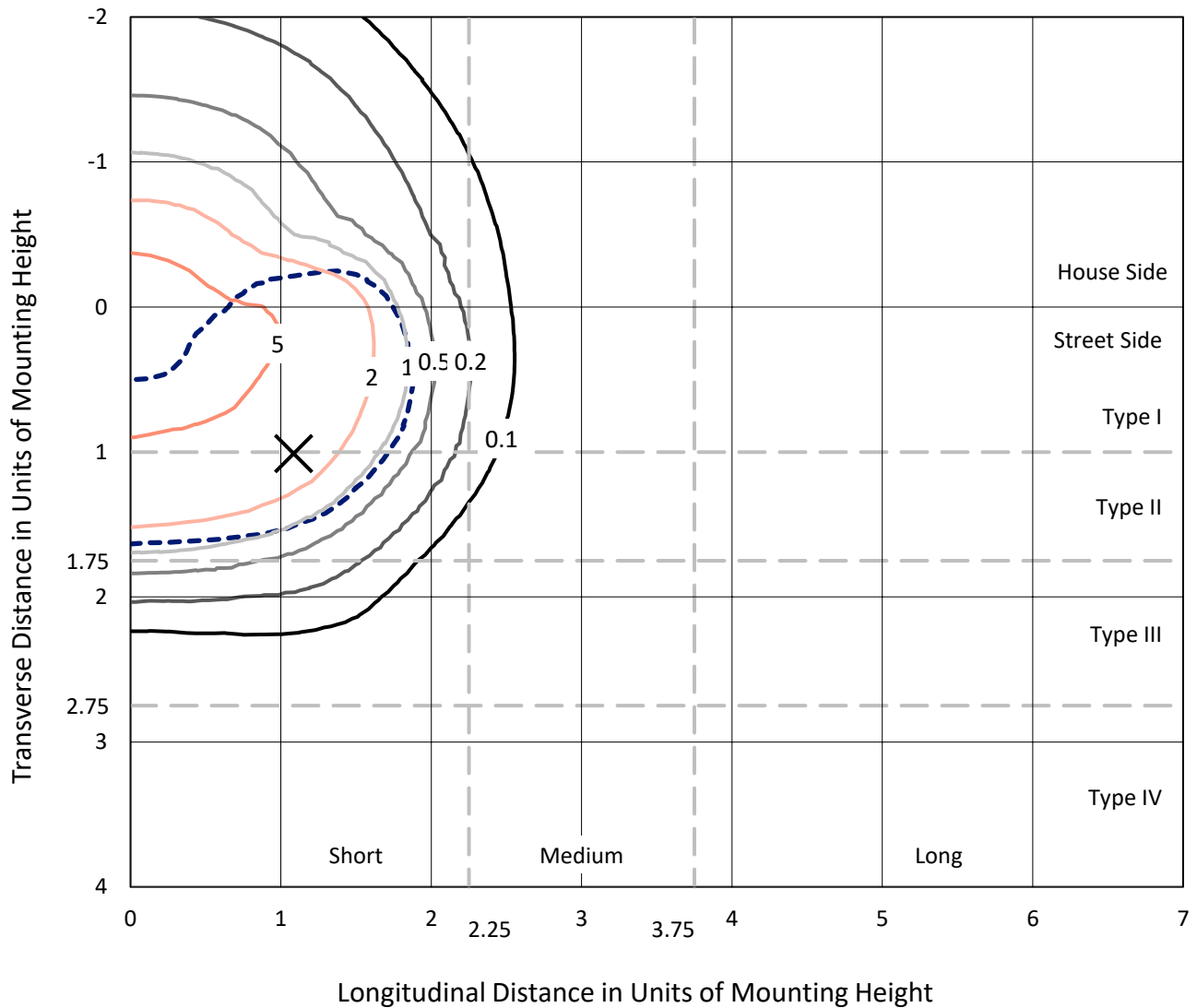
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

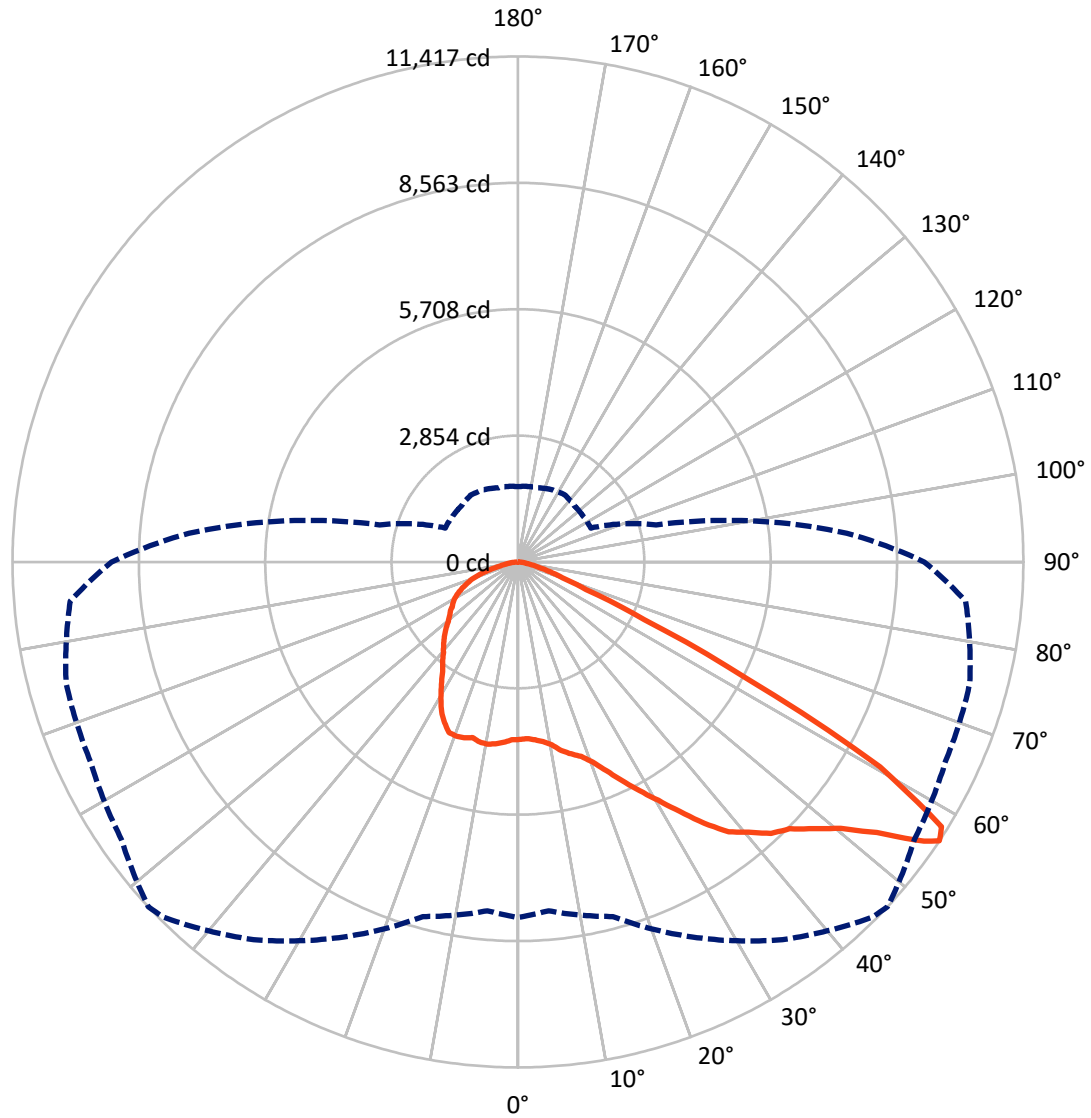
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	6326.4	0.0	6326.4
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	13637.6	0.0	13637.6
	% Fixture	68.3	0.0	68.3
Total	Lumens	19964.0	0.0	19964.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.7	2.0
10°-20°	1232.6	6.2
20°-30°	2178.9	10.9
30°-40°	3272.6	16.4
40°-50°	4491.4	22.5
50°-60°	5350.9	26.8
60°-70°	2289.9	11.5
70°-80°	648.0	3.2
80°-90°	109.1	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°	19964.0	100.0
0°-180°	19964.0	100.0

Coefficient of Utilization



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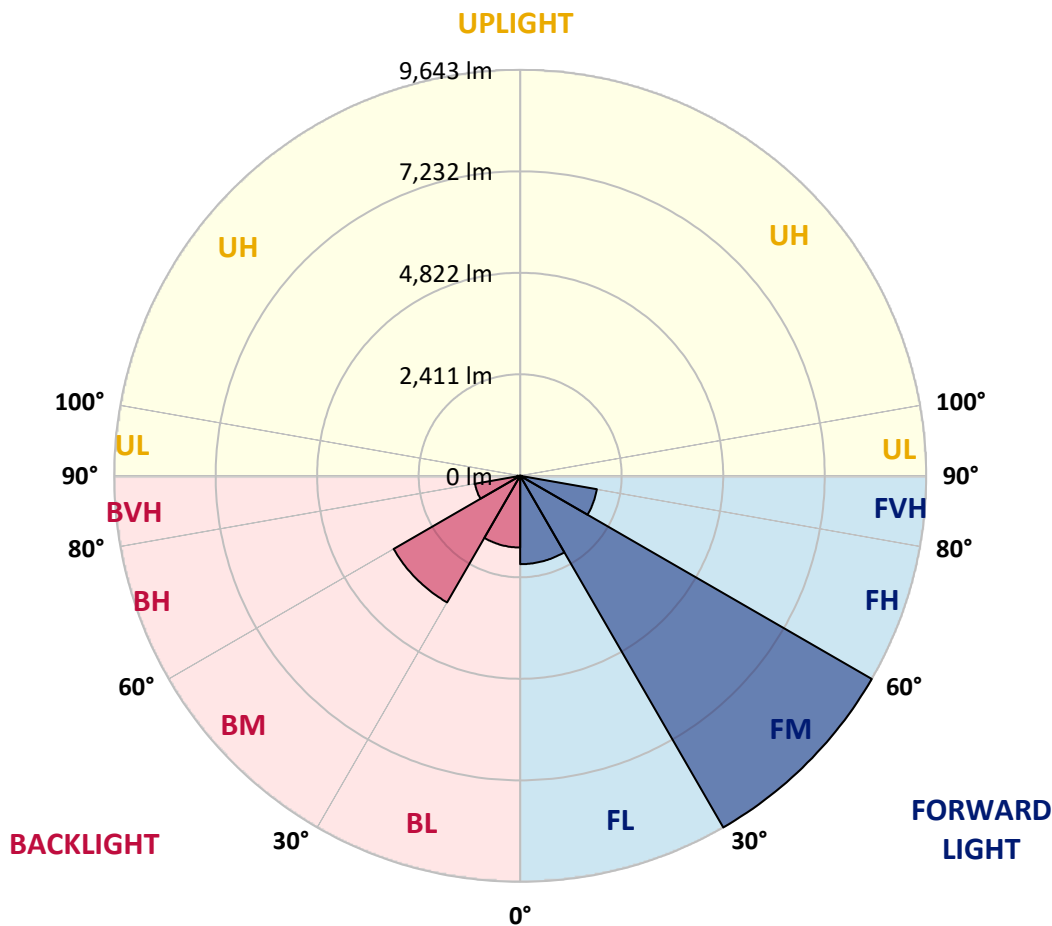
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2098.9	10.5			
FM (30°-60°)	9643.1	48.3			
FH (60°-80°)	1849.4	9.3			G2/5000
FVH (80°-90°)	46.3	0.2			G1/100
BL (0°-30°)	1703.3	8.5	B3/2500		
BM (30°-60°)	3471.8	17.4	B3/5000		
BH (60°-80°)	1088.5	5.5	B3/2500		G3/2500
BVH (80°-90°)	62.8	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°	4010.2	4010.2	4010.2	4010.2	4010.2	4010.2	4010.2	4010.2	4010.2	4010.2	4010.2
2.5°	3994.9	3987.2	3982.2	4022.9	4007.6	4010.2	3994.9	4010.2	4020.3	3997.4	4030.5
5°	3987.2	4010.2	3989.8	4002.5	4035.6	4025.4	4035.6	4066.2	4058.5	4050.9	4040.7
7.5°	4058.5	4061.1	4076.4	4081.5	4091.6	4081.5	4096.7	4124.7	4117.1	4073.8	4078.9
10°	4160.4	4165.5	4168.0	4196.0	4213.9	4216.4	4198.6	4173.1	4170.6	4229.1	4188.4
12.5°	4277.5	4264.8	4295.3	4305.5	4325.9	4348.8	4371.7	4318.2	4351.3	4353.9	4305.5
15°	4448.1	4460.8	4425.2	4425.2	4432.8	4435.4	4499.0	4473.6	4468.5	4440.5	4460.8
17.5°	4702.7	4616.1	4613.6	4577.9	4572.9	4593.2	4616.1	4636.5	4705.3	4649.2	4539.8
20°	4888.6	4908.9	4835.1	4791.8	4799.5	4845.3	4822.4	4914.0	4962.4	4870.8	4763.8
22.5°	5217.0	5148.3	5166.1	5069.4	5077.0	5125.4	5122.8	5217.0	5245.0	5099.9	4944.6
25°	5438.5	5420.7	5436.0	5359.6	5369.8	5408.0	5469.1	5624.4	5578.6	5418.2	5059.2
27.5°	5761.9	5726.3	5713.5	5685.5	5675.3	5777.2	5848.5	6014.0	5980.9	5746.6	5262.9
30°	6092.9	6070.0	6082.7	5968.1	6008.9	6225.3	6245.7	6472.3	6457.0	6044.5	5489.5
32.5°	6322.1	6334.8	6357.7	6294.0	6474.8	6648.0	6716.7	6973.9	6986.6	6556.3	5927.4
35°	6691.2	6648.0	6660.7	6734.5	6818.5	7134.3	7246.3	7416.9	7523.8	7093.5	6347.5
37.5°	6922.9	6968.8	6915.3	7032.4	7251.4	7630.8	7732.6	7908.3	8020.3	7623.1	6920.4
40°	7284.5	7210.7	7248.8	7332.9	7556.9	8050.9	8022.9	8203.6	8239.3	8073.8	7455.1
42.5°	7674.0	7638.4	7584.9	7775.9	7964.3	8323.3	8379.3	8295.3	8476.1	8514.3	8218.9
45°	8140.0	8183.3	8190.9	8196.0	8361.5	8674.7	8598.3	8524.5	8733.2	9010.8	8692.5
47.5°	8572.8	8435.3	8534.6	8672.1	8906.4	8908.9	8998.0	8822.4	9043.9	9290.8	9120.3
50°	8718.0	8651.8	8784.2	9043.9	9405.4	9443.6	9453.8	9204.3	9318.9	9514.9	9267.9
52.5°	8661.9	8639.0	8977.7	9380.0	9909.6	10103.1	10154.0	9845.9	9909.6	9820.4	9593.8
55°	8394.6	8463.3	8804.5	9624.4	10436.6	11034.9	11131.7	10742.1	10337.3	10406.0	10156.5
56°	8028.0	7908.3	8290.2	9346.9	10413.7	11337.9	11416.9	10930.6	10655.6	10566.5	10151.4
57.5°	6810.9	6655.6	7157.2	8409.9	9835.7	11223.4	11281.9	11009.5	10602.1	10421.3	9410.5
60°	3987.2	4063.6	4700.2	5800.1	7587.5	9201.7	9397.8	9596.4	9323.9	8514.3	7004.4
62.5°	1924.9	1876.5	2332.3	3325.3	4623.8	5873.9	5815.4	6373.0	6678.5	6049.6	4422.6
65°	1008.3	1003.2	1273.1	1815.4	2541.0	3085.9	3139.4	3439.8	3859.9	3116.5	2245.7
67.5°	740.9	761.3	896.2	1275.6	1634.6	1667.7	1660.1	1810.3	1851.0	1565.9	1380.0
70°	580.5	590.7	690.0	970.1	1217.1	1089.7	1066.8	1084.7	1204.3	1255.2	1194.1
72.5°	420.1	430.3	514.3	654.4	761.3	743.5	758.7	858.0	1005.7	1059.2	995.5
75°	280.1	287.7	333.5	399.7	450.7	486.3	514.3	628.9	766.4	796.9	766.4
77.5°	193.5	201.1	231.7	282.6	287.7	310.6	320.8	374.3	458.3	496.5	476.1
80°	109.5	109.5	124.8	145.1	178.2	208.8	213.9	257.2	295.4	320.8	325.9
82.5°	50.9	53.5	66.2	89.1	117.1	145.1	150.2	178.2	206.2	231.7	239.3
85°	25.5	28.0	38.2	53.5	71.3	86.6	84.0	86.6	91.7	86.6	89.1
87.5°	7.6	7.6	10.2	12.7	10.2	12.7	12.7	15.3	17.8	20.4	22.9
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°	4010.2	4010.2	4010.2	4010.2	4010.2	4010.2	4010.2	4010.2	4010.2	4010.2	4010.2
2.5°	4033.1	4040.7	3989.8	4038.2	4020.3	4017.8	4053.4	4048.4	4061.1	4056.0	4025.4
5°	4035.6	4017.8	4071.3	4022.9	4045.8	4094.2	4061.1	4137.5	4099.3	4124.7	4068.7
7.5°	4114.6	4119.6	4109.5	4129.8	4119.6	4142.6	4124.7	4142.6	4112.0	4114.6	4165.5
10°	4183.3	4168.0	4185.8	4160.4	4178.2	4170.6	4129.8	4117.1	4127.3	4114.6	4147.7
12.5°	4310.6	4282.6	4269.9	4239.3	4218.9	4142.6	4078.9	4043.3	4091.6	4099.3	4084.0
15°	4440.5	4443.0	4384.4	4315.7	4188.4	4073.8	4089.1	4101.8	4101.8	4122.2	4084.0
17.5°	4521.9	4521.9	4468.5	4331.0	4201.1	4134.9	4119.6	4078.9	4043.3	4038.2	4035.6
20°	4664.5	4621.2	4499.0	4328.4	4196.0	4165.5	4050.9	3954.1	3880.3	3854.8	3852.3
22.5°	4827.5	4718.0	4547.4	4333.5	4188.4	4145.1	3931.2	3786.1	3653.7	3597.7	3605.3
25°	4977.7	4802.0	4575.4	4310.6	4160.4	3951.6	3712.3	3511.1	3373.6	3327.8	3304.9
27.5°	5082.1	4891.1	4575.4	4331.0	4056.0	3735.2	3490.7	3233.6	3113.9	3083.4	3088.5
30°	5222.1	5003.2	4654.3	4287.7	3847.2	3455.1	3162.3	2994.3	2923.0	2897.5	2915.3
32.5°	5550.6	5296.0	4763.8	4183.3	3600.2	3175.0	2938.2	2844.0	2739.6	2688.7	2670.9
35°	5907.0	5573.5	4870.8	4007.6	3322.7	2920.4	2772.7	2686.2	2561.4	2505.4	2515.6
37.5°	6411.2	5929.9	4878.4	3717.4	3022.3	2777.8	2642.9	2507.9	2406.1	2319.5	2294.1
40°	7091.0	6416.3	4860.6	3411.8	2780.4	2609.8	2510.5	2342.4	2227.9	2166.8	2179.5
42.5°	7689.3	6986.6	4786.7	3065.5	2561.4	2495.2	2383.2	2217.7	2105.7	2042.0	2036.9
45°	8193.5	7406.7	4646.7	2770.2	2378.1	2367.9	2238.1	2110.7	2021.6	1963.1	1988.5
47.5°	8659.4	7745.3	4435.4	2474.8	2210.0	2230.4	2105.7	2026.7	1970.7	1917.2	1914.7
50°	8827.4	7740.2	4249.5	2230.4	2075.1	2064.9	2059.8	1975.8	1917.2	1871.4	1891.8
52.5°	9107.5	7826.8	4048.4	2062.4	1952.9	1955.4	1973.3	1912.1	1845.9	1817.9	1843.4
55°	9509.8	7839.5	3605.3	1866.3	1851.0	1868.9	1868.9	1828.1	1772.1	1749.2	1736.5
56°	9181.4	7460.2	3233.6	1815.4	1800.1	1800.1	1848.5	1802.7	1733.9	1716.1	1700.8
57.5°	8468.4	6535.9	2706.5	1754.3	1731.4	1767.0	1792.5	1744.1	1680.4	1655.0	1670.3
60°	5840.8	4422.6	2034.4	1621.9	1621.9	1680.4	1700.8	1629.5	1601.5	1599.0	1578.6
62.5°	3409.3	2576.7	1591.3	1502.2	1507.3	1555.7	1571.0	1530.2	1494.6	1537.9	1558.2
65°	1807.8	1537.9	1364.7	1374.9	1377.5	1415.7	1481.8	1479.3	1476.8	1489.5	1492.0
67.5°	1308.7	1278.2	1240.0	1229.8	1234.9	1262.9	1329.1	1380.0	1377.5	1346.9	1324.0
70°	1166.1	1122.8	1099.9	1102.5	1082.1	1115.2	1168.7	1201.8	1143.2	1107.6	1092.3
72.5°	970.1	957.3	942.1	944.6	903.9	896.2	835.1	835.1	819.9	809.7	827.5
75°	740.9	735.8	743.5	730.7	687.5	641.6	606.0	572.9	522.0	501.6	491.4
77.5°	468.5	483.8	501.6	473.6	455.8	422.7	387.0	353.9	313.2	290.3	290.3
80°	318.3	331.0	343.7	338.6	318.3	287.7	259.7	224.1	196.1	178.2	175.7
82.5°	241.9	252.1	269.9	249.5	229.2	203.7	180.8	155.3	129.9	109.5	109.5
85°	86.6	99.3	109.5	119.7	127.3	129.9	112.0	91.7	73.8	58.6	56.0
87.5°	22.9	25.5	28.0	25.5	25.5	25.5	28.0	25.5	22.9	17.8	17.8
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)