

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: P530650

Luminaire Tested: **GALN-SA5D-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24138 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

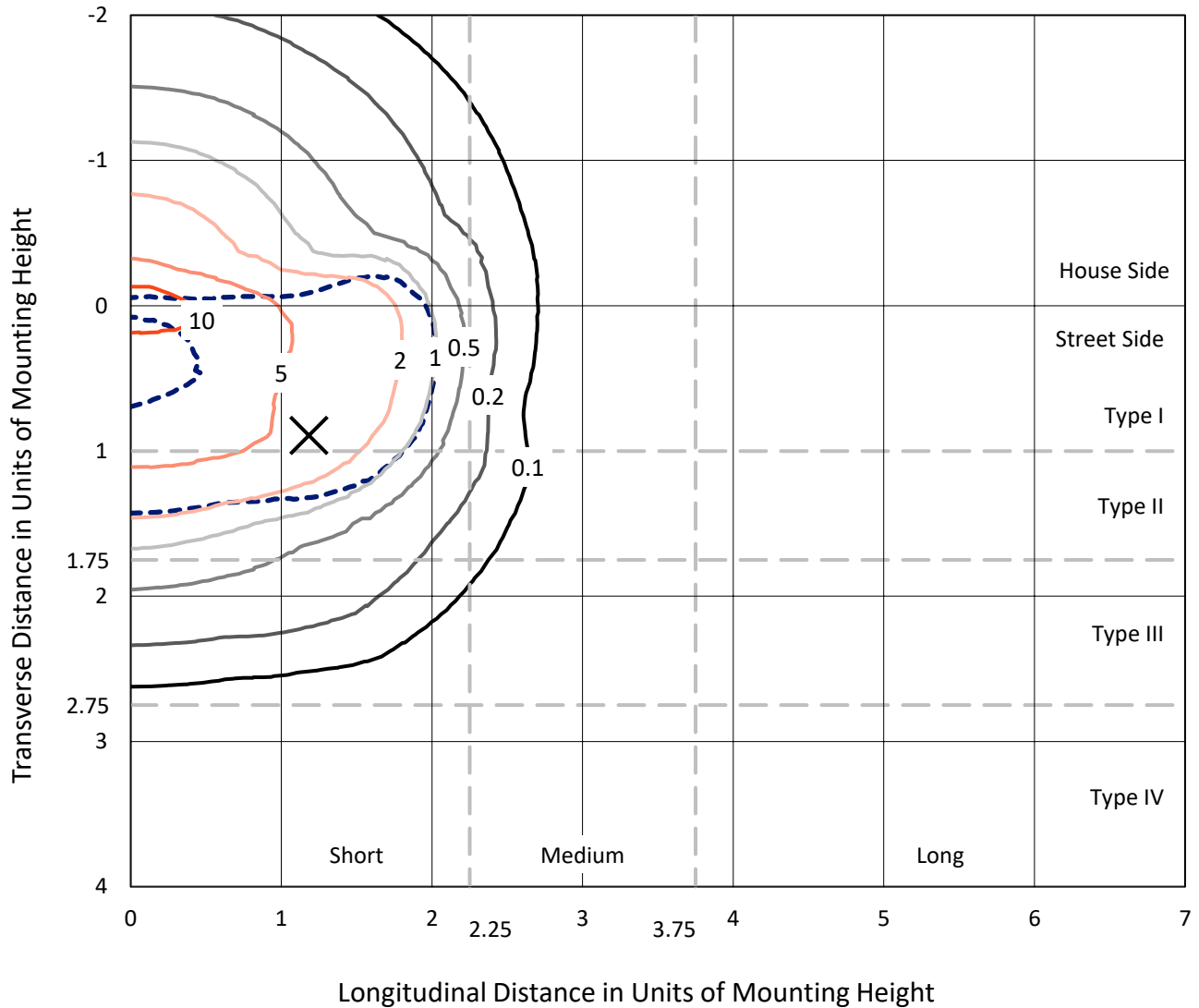
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

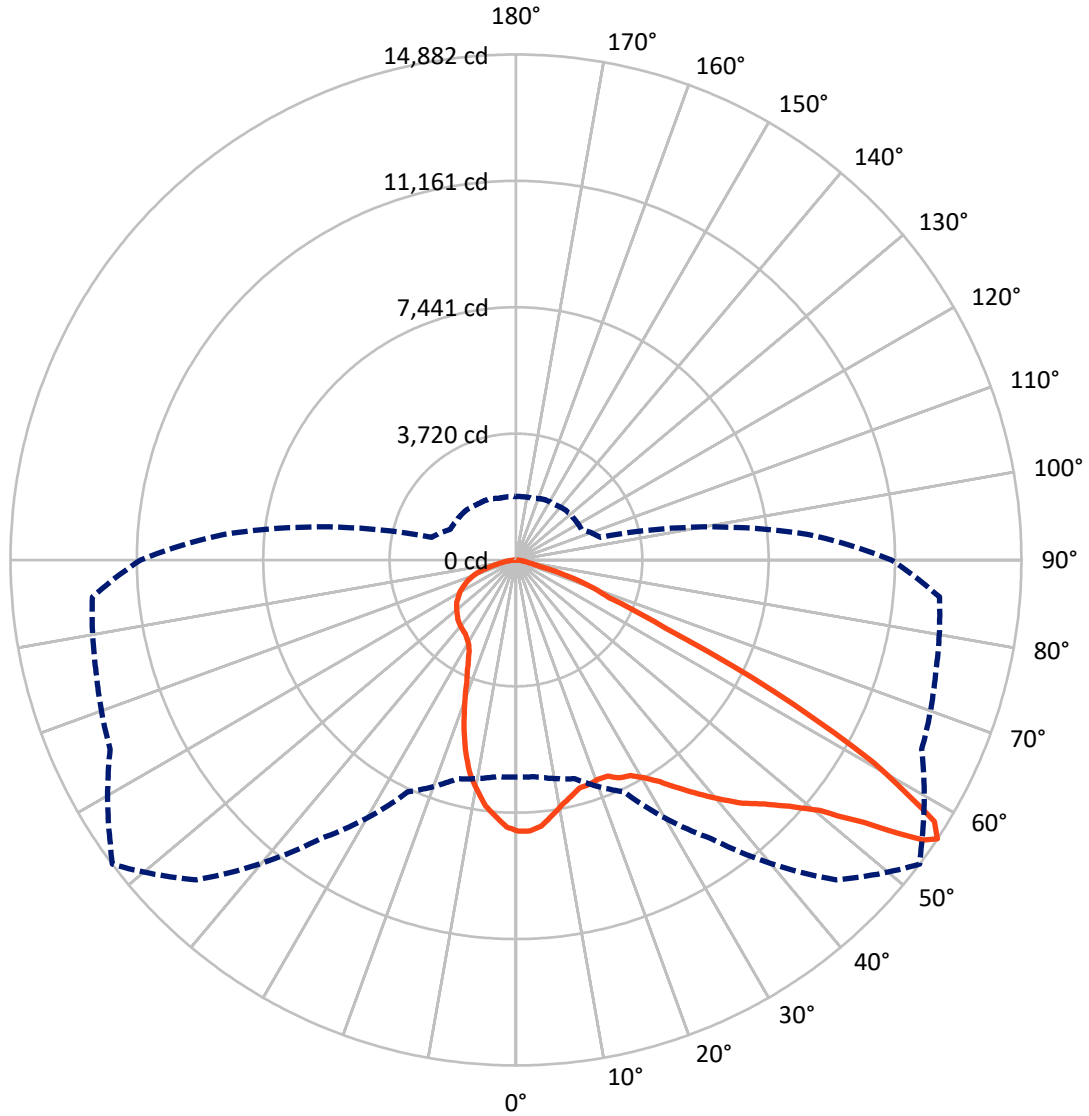
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7044.0	0.0	7044.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	17094.0	0.0	17094.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	24138.0	0.0	24138.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.0	2.9
10°-20°	1765.7	7.3
20°-30°	2603.7	10.8
30°-40°	3720.2	15.4
40°-50°	5120.3	21.2
50°-60°	6050.8	25.1
60°-70°	3224.7	13.4
70°-80°	818.1	3.4
80°-90°	127.6	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°	24138.0	100.0
0°-180°	24138.0	100.0



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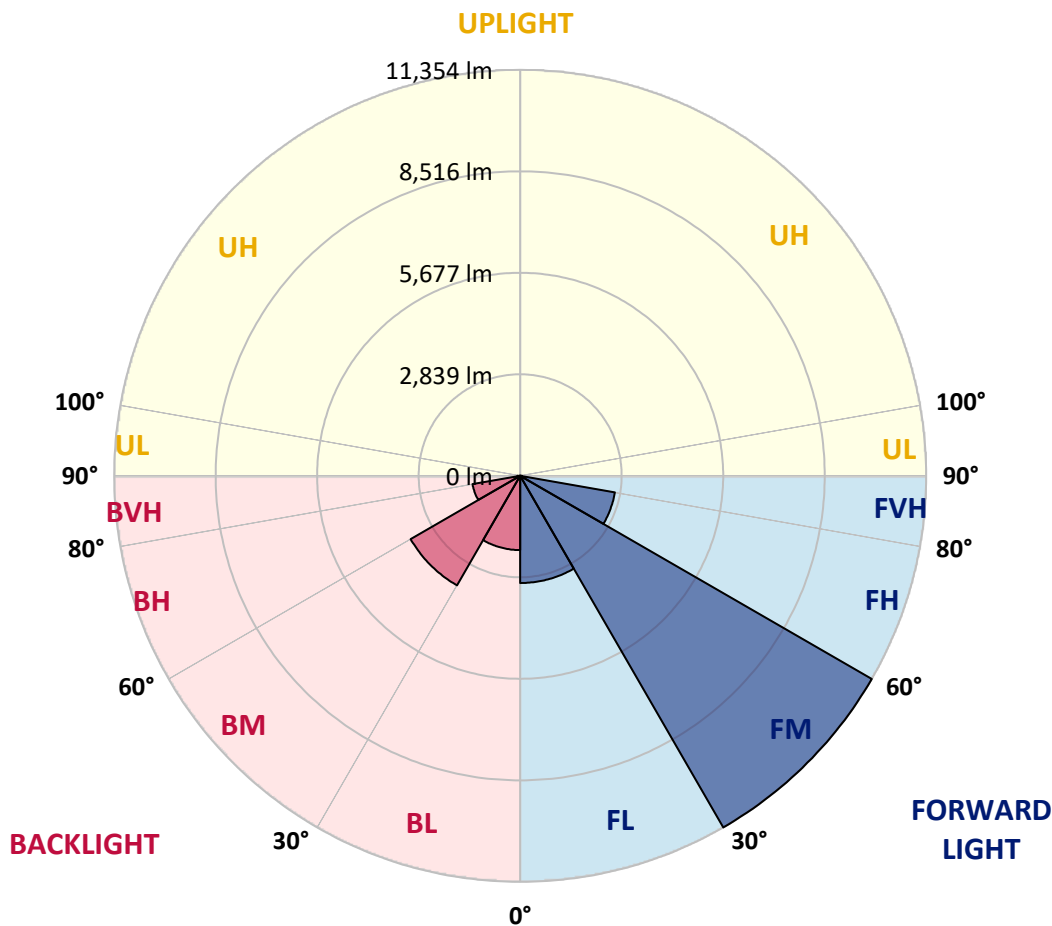
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2998.8	12.4			
FM (30°-60°)	11354.0	47.0			
FH (60°-80°)	2689.9	11.1			G2/5000
FVH (80°-90°)	51.3	0.2			G1/100
BL (0°-30°)	2077.6	8.6	B3/2500		
BM (30°-60°)	3537.3	14.7	B3/5000		
BH (60°-80°)	1352.9	5.6	B3/2500		G3/2500
BVH (80°-90°)	76.3	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°	53°	55°	65°	75°	85°
0°	7985.8	7985.8	7985.8	7985.8	7985.8	7985.8	7985.8	7985.8	7985.8	7985.8	7985.8
2.5°	7886.7	7818.6	7858.8	7843.4	7970.3	8007.5	7988.9	8004.4	8075.6	8041.5	7970.3
5°	7369.6	7465.6	7484.2	7530.6	7604.9	7750.5	7865.0	7896.0	7930.1	8088.0	8072.5
7.5°	6898.9	6964.0	6929.9	7066.1	7227.2	7462.5	7601.8	7626.6	7939.4	8026.1	8091.1
10°	6601.7	6536.7	6691.5	6728.6	6911.3	7180.7	7347.9	7450.1	7735.0	8078.7	8119.0
12.5°	6326.1	6304.4	6397.3	6502.6	6707.0	6985.6	7155.9	7196.2	7635.9	7998.2	8187.1
15°	6121.7	6097.0	6189.8	6267.3	6505.7	6753.4	6970.2	7084.7	7527.5	7951.7	8128.2
17.5°	5960.7	5957.6	6010.3	6149.6	6394.2	6601.7	6951.6	6957.8	7471.8	8023.0	8177.8
20°	5951.4	5948.3	5957.6	6112.4	6335.4	6589.3	6892.7	6948.5	7471.8	7973.4	8180.9
22.5°	6028.8	5979.3	6035.0	6134.1	6295.1	6611.0	6914.4	7038.3	7651.4	8218.0	8320.2
25°	6152.7	6165.1	6196.0	6230.1	6323.0	6660.5	7106.4	7208.6	7861.9	8428.6	8512.2
27.5°	6378.7	6372.5	6384.9	6403.5	6484.0	6707.0	7183.8	7447.0	8301.6	8803.3	8719.7
30°	6710.1	6688.4	6737.9	6802.9	6728.6	6855.6	7440.8	7639.0	8710.4	9181.0	8951.9
32.5°	7010.4	7090.9	7183.8	7211.7	7121.9	7146.7	7781.4	7982.7	9051.0	9645.5	9236.8
35°	7385.1	7450.1	7574.0	7660.7	7645.2	7570.9	8245.9	8512.2	9543.3	9986.1	9537.1
37.5°	7750.5	7827.9	8032.2	8289.3	8146.8	8112.8	8741.3	8961.2	9695.1	10168.8	9757.0
40°	8338.8	8335.7	8688.7	8821.8	8948.8	8890.0	9255.4	9329.7	9775.6	10128.6	9763.2
42.5°	9029.3	8986.0	9345.2	9552.6	9716.7	9722.9	9791.0	9766.3	9812.7	9924.2	9698.2
45°	9685.8	9778.7	10140.9	10512.5	10676.6	10695.2	10243.1	10196.7	9877.7	9865.4	9574.3
47.5°	10487.8	10509.4	10806.7	11295.9	11676.8	11546.7	10828.4	10726.2	10162.6	10258.6	9781.8
50°	10534.2	10695.2	10961.5	11537.5	12707.9	12673.9	11587.0	11395.0	10620.9	10816.0	10360.8
52.5°	9561.9	9524.7	9840.6	10781.9	12630.5	13794.8	12844.2	12385.9	11605.6	11456.9	11299.0
55°	7286.0	7372.7	7651.4	8602.0	10967.7	13810.3	14556.5	14181.8	12658.4	12404.5	12221.8
56°	6391.1	6403.5	6666.7	7533.7	10007.8	13317.9	14881.6	14578.2	13181.7	12794.6	12515.9
57.5°	5298.1	5226.8	5363.1	5836.9	8447.2	12277.5	14525.6	14822.8	13794.8	13215.7	12828.7
60°	4170.9	4155.5	4099.7	4186.4	5338.3	9249.2	12091.7	12760.6	13732.9	12819.4	12286.8
62.5°	3406.1	3328.7	3440.2	3564.0	3709.6	5737.8	8496.7	8890.0	10902.7	10233.8	9230.6
65°	2641.3	2604.1	2743.5	3146.0	3232.7	3644.5	4839.8	5143.2	6437.6	6323.0	5567.5
67.5°	1817.6	1823.8	1944.6	2557.7	2997.4	2960.2	2963.3	3121.2	3359.7	2495.8	2173.7
70°	1151.9	1148.8	1213.8	1647.3	2412.2	2436.9	2313.1	2266.6	2149.0	1300.5	1377.9
72.5°	740.1	718.4	752.4	910.4	1247.9	1443.0	1486.3	1514.2	1244.8	1021.8	1108.5
75°	418.0	396.3	384.0	424.2	492.3	569.8	625.5	644.1	721.5	774.1	820.6
77.5°	127.0	114.6	139.3	185.8	244.6	328.2	399.4	411.8	486.1	548.1	594.5
80°	55.7	61.9	86.7	123.9	173.4	232.2	281.8	300.4	349.9	396.3	408.7
82.5°	34.1	37.2	58.8	83.6	120.8	164.1	201.3	207.5	257.0	294.2	303.5
85°	12.4	15.5	31.0	49.5	77.4	105.3	105.3	114.6	105.3	105.3	114.6
87.5°	0.0	0.0	3.1	6.2	6.2	9.3	12.4	12.4	15.5	18.6	21.7
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°	7985.8	7985.8	7985.8	7985.8	7985.8	7985.8	7985.8	7985.8	7985.8	7985.8	7985.8
2.5°	8007.5	7992.0	7967.2	7877.4	7868.1	7840.3	7685.4	7660.7	7685.4	7611.1	7617.3
5°	7992.0	8038.4	7852.7	7762.9	7595.6	7474.9	7335.5	7264.3	7137.4	7056.9	7146.7
7.5°	8060.1	8041.5	7809.3	7614.2	7363.4	7056.9	6812.2	6672.9	6450.0	6388.0	6434.5
10°	8035.3	7936.3	7663.8	7406.8	6933.0	6663.6	6267.3	5883.3	5672.7	5564.4	5548.9
12.5°	8001.3	7973.4	7518.2	7075.4	6576.9	6010.3	5452.9	5090.6	4746.9	4598.3	4619.9
15°	8041.5	7806.2	7245.7	6685.3	6022.6	5279.5	4678.8	4211.2	3972.8	3876.8	3876.8
17.5°	8023.0	7725.7	7115.7	6248.7	5409.5	4530.1	3870.6	3588.8	3489.7	3489.7	3517.6
20°	8032.2	7778.3	6852.5	5812.1	4685.0	3814.9	3334.9	3232.7	3276.1	3291.5	3307.0
22.5°	8084.9	7604.9	6595.5	5332.1	4013.0	3263.7	3028.3	3031.4	3108.9	3192.5	3177.0
25°	8149.9	7536.8	6282.7	4855.3	3499.0	2994.3	2920.0	2910.7	2969.5	3012.9	3019.1
27.5°	8094.2	7419.1	5963.8	4260.7	3077.9	2814.7	2799.2	2805.4	2824.0	2910.7	2882.8
30°	8276.9	7453.2	5564.4	3762.2	2845.7	2755.9	2737.3	2728.0	2755.9	2780.6	2759.0
32.5°	8502.9	7332.4	5267.1	3282.3	2731.1	2712.5	2675.4	2663.0	2678.4	2653.7	2666.1
35°	8602.0	7310.8	4880.0	2938.6	2641.3	2625.8	2604.1	2601.0	2604.1	2582.5	2563.9
37.5°	8657.7	7413.0	4437.2	2780.6	2585.6	2601.0	2551.5	2545.3	2489.6	2501.9	2511.2
40°	8753.7	7255.0	4078.1	2628.9	2551.5	2520.5	2477.2	2467.9	2430.7	2409.1	2430.7
42.5°	8614.4	7208.6	3725.1	2563.9	2501.9	2467.9	2436.9	2384.3	2371.9	2353.3	2340.9
45°	8502.9	6942.3	3409.2	2483.4	2443.1	2424.5	2365.7	2310.0	2263.5	2282.1	2254.2
47.5°	8586.5	6849.4	3096.5	2415.2	2362.6	2340.9	2282.1	2238.7	2192.3	2170.6	2164.4
50°	8920.9	7022.8	2833.3	2365.7	2294.5	2282.1	2204.7	2155.1	2111.8	2096.3	2102.5
52.5°	9719.8	7496.6	2653.7	2263.5	2229.5	2173.7	2130.4	2068.4	2040.6	1991.0	2022.0
55°	10732.4	8267.6	2607.2	2167.5	2149.0	2099.4	2040.6	1994.1	1941.5	1901.2	1891.9
56°	11057.5	8636.1	2570.1	2130.4	2099.4	2071.5	1994.1	1966.3	1882.7	1873.4	1867.2
57.5°	11320.7	8961.2	2576.3	2059.2	2028.2	2003.4	1957.0	1888.8	1833.1	1799.1	1814.5
60°	10726.2	8388.3	2458.6	1950.8	1944.6	1898.1	1833.1	1802.1	1734.0	1693.8	1684.5
62.5°	7973.4	5694.4	1994.1	1811.4	1808.3	1758.8	1684.5	1650.4	1638.0	1582.3	1582.3
65°	4592.1	3570.2	1724.7	1696.9	1672.1	1622.6	1548.2	1520.4	1489.4	1470.8	1455.3
67.5°	1960.1	1851.7	1566.8	1563.7	1535.9	1473.9	1399.6	1356.3	1316.0	1278.8	1297.4
70°	1421.3	1443.0	1415.1	1399.6	1365.5	1288.1	1223.1	1170.5	1108.5	1083.8	1102.3
72.5°	1127.1	1173.6	1213.8	1216.9	1176.7	1086.9	1015.6	944.4	876.3	842.2	857.7
75°	854.6	885.6	925.8	935.1	876.3	814.4	746.2	671.9	619.3	579.0	585.2
77.5°	616.2	610.0	647.2	641.0	613.1	569.8	507.8	439.7	380.9	343.7	346.8
80°	421.1	430.4	452.1	449.0	414.9	387.1	340.6	284.9	241.5	210.6	204.4
82.5°	294.2	309.6	328.2	312.7	284.9	257.0	222.9	182.7	148.6	123.9	117.7
85°	105.3	120.8	139.3	148.6	157.9	151.7	127.0	102.2	74.3	61.9	58.8
87.5°	21.7	24.8	27.9	27.9	27.9	24.8	21.7	21.7	18.6	9.3	9.3
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)