

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: P526708

Luminaire Tested: **GALN-SA1C-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526708
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-SA1C-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4967 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

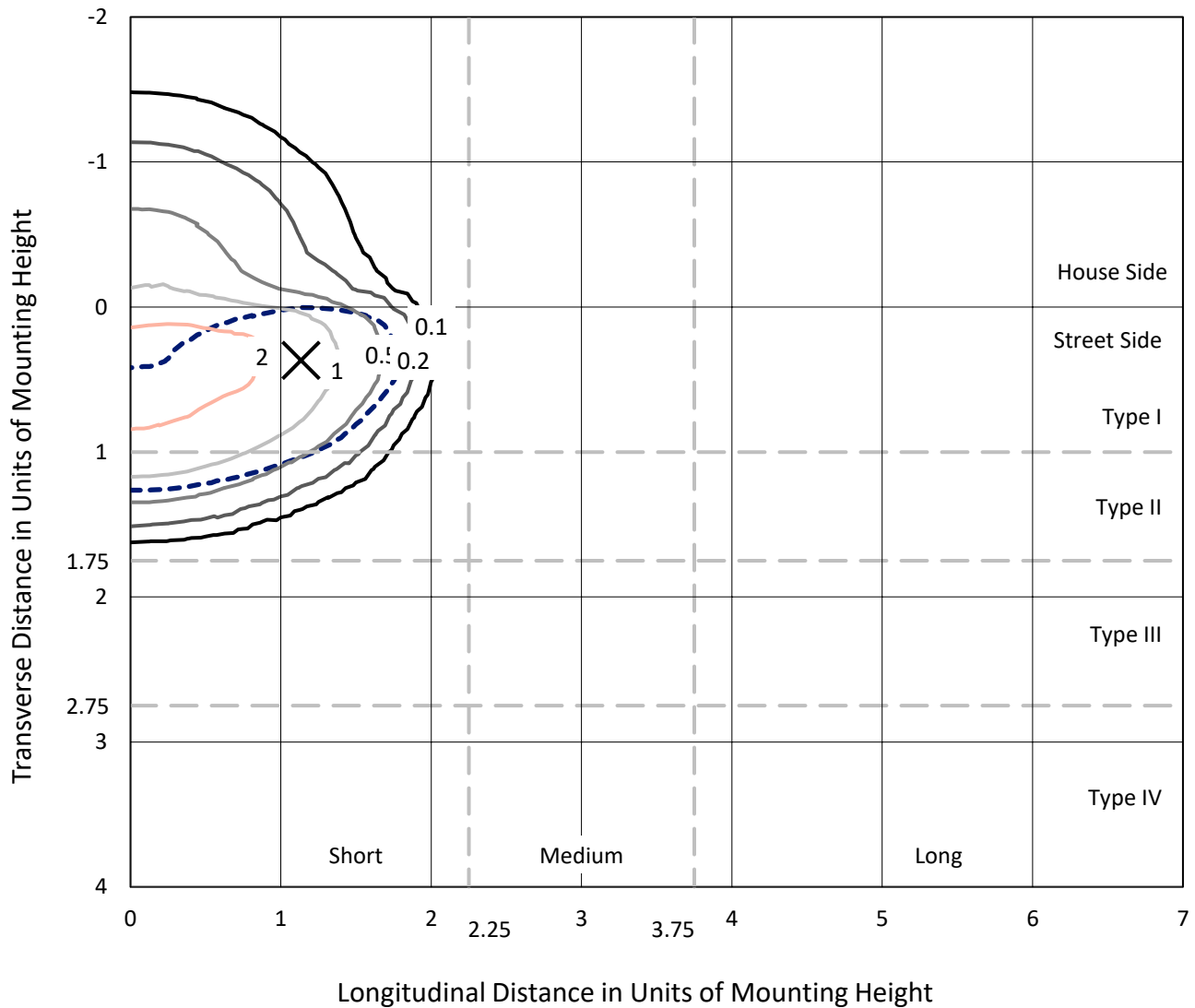
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526708
 CATALOG NUMBER: GALN-SA1C-830-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

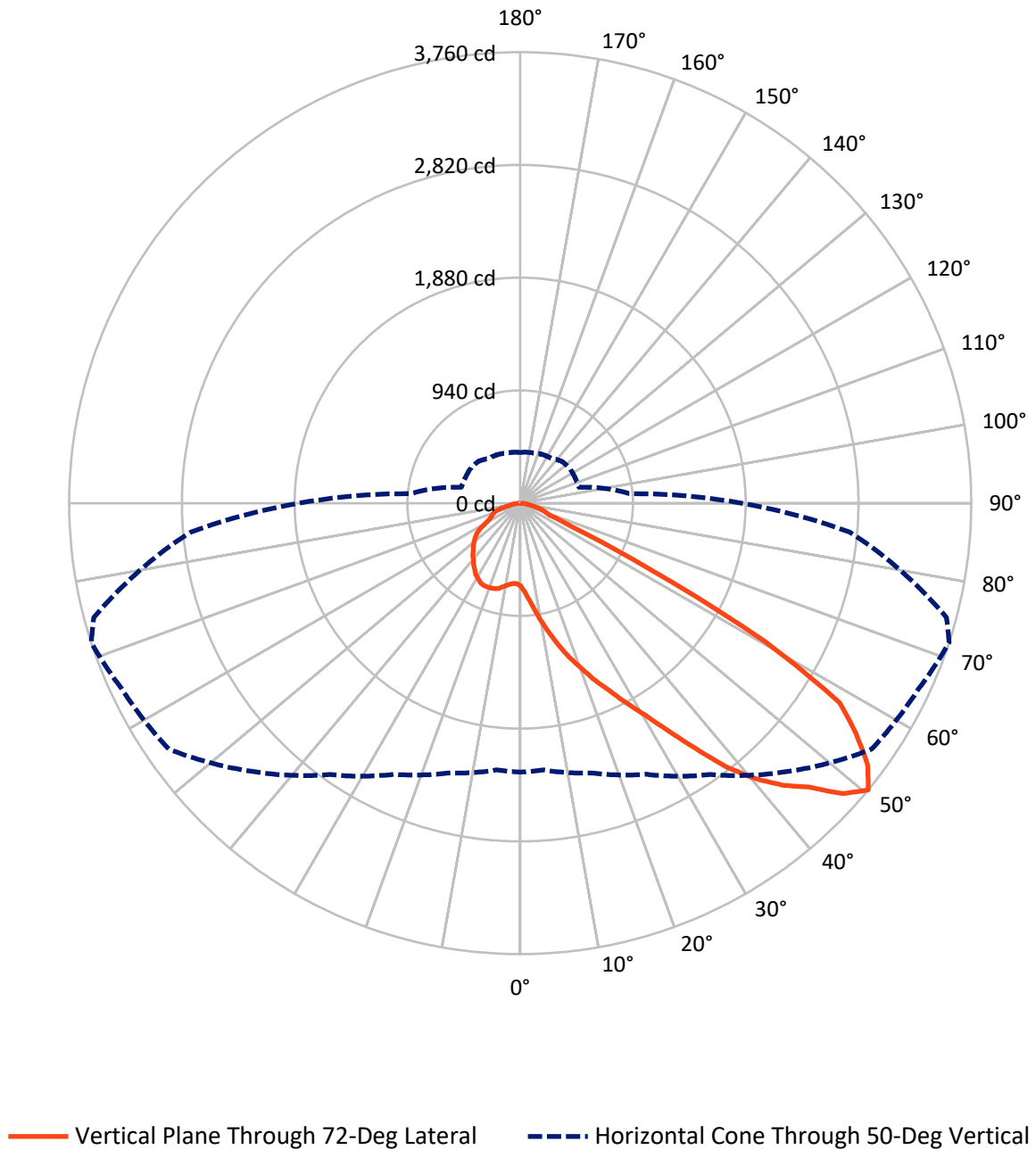
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

REPORT NUMBER: P526708
CATALOG NUMBER: GALN-SA1C-830-U-T2R-GRSWH

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1138.0	0.0	1138.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3829.0	0.0	3829.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	4967.0	0.0	4967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	1.6
10°-20°	304.0	6.1
20°-30°	589.5	11.9
30°-40°	976.6	19.7
40°-50°	1366.5	27.5
50°-60°	1152.8	23.2
60°-70°	351.4	7.1
70°-80°	123.3	2.5
80°-90°	21.4	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°	4967.0	100.0
0°-180°	4967.0	100.0

Coefficient of Utilization



REPORT NUMBER: P526708

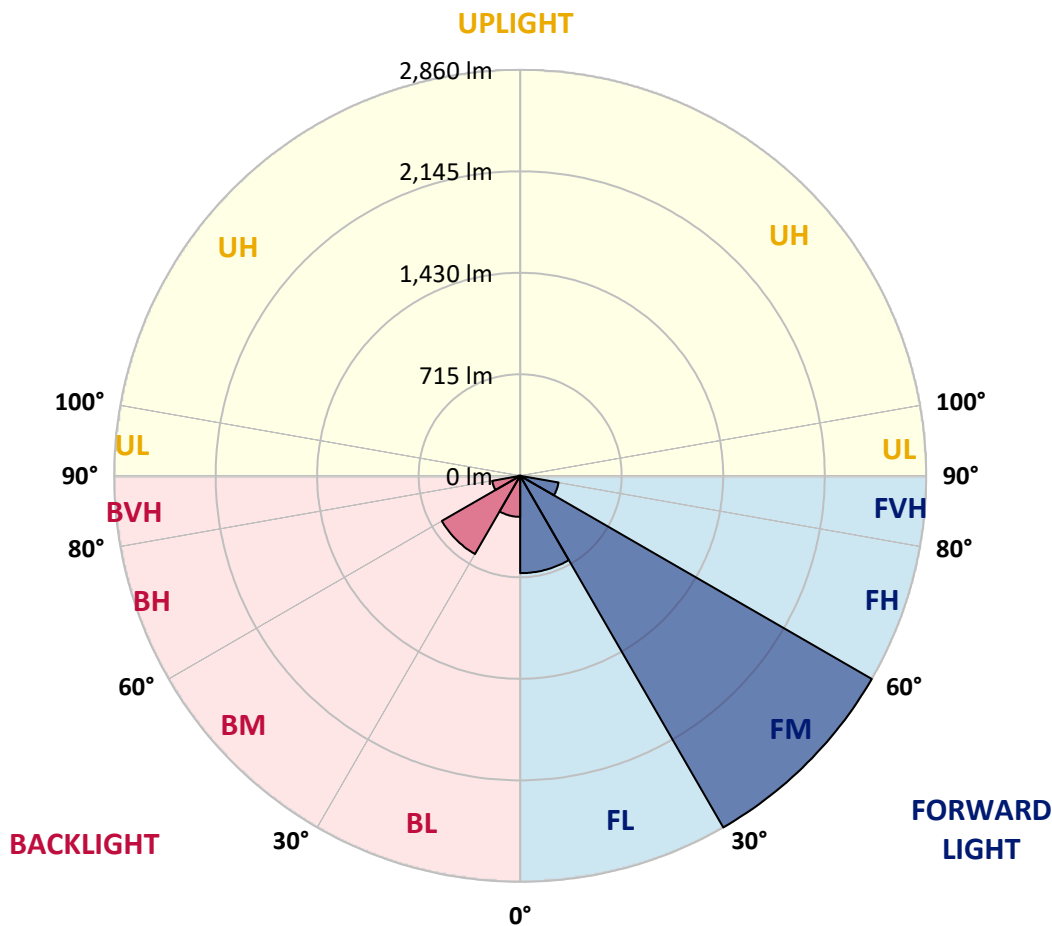
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	685.6	13.8			
FM	(30°-60°)	2859.6	57.6			
FH	(60°-80°)	274.2	5.5			G0/660
FVH	(80°-90°)	9.6	0.2			G0/10
BL	(0°-30°)	289.3	5.8	B1/500		
BM	(30°-60°)	636.4	12.8	B1/1000		
BH	(60°-80°)	200.5	4.0	B1/500		G1/500
BVH	(80°-90°)	11.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



REPORT NUMBER: P526708

CATALOG NUMBER: GALN-SA1C-830-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4
2.5°	889.4	883.8	867.2	861.7	842.0	806.4	794.1	757.8	742.5	728.3	711.7
5°	1124.8	1098.9	1097.1	1065.8	1020.3	993.8	915.2	862.3	813.8	789.2	743.7
7.5°	1274.7	1275.3	1275.3	1249.5	1213.3	1146.3	1075.6	980.3	907.2	870.9	793.5
10°	1417.3	1405.0	1398.3	1395.8	1371.2	1306.1	1230.5	1112.5	1012.3	969.9	831.0
12.5°	1518.1	1507.7	1523.0	1515.0	1497.2	1454.8	1383.5	1248.9	1123.5	1066.4	891.2
15°	1566.1	1573.4	1585.7	1607.8	1599.9	1583.9	1505.2	1389.0	1243.4	1178.8	944.7
17.5°	1639.8	1619.5	1634.3	1661.9	1684.1	1676.7	1631.8	1490.5	1362.0	1282.7	1016.6
20°	1691.4	1679.8	1687.1	1719.1	1735.7	1777.5	1754.1	1623.2	1475.7	1392.1	1101.4
22.5°	1838.9	1821.7	1797.8	1802.7	1808.8	1838.3	1843.9	1768.9	1607.8	1519.3	1181.9
25°	2020.9	2004.9	1976.6	1947.7	1929.9	1924.4	1943.4	1883.2	1734.5	1642.9	1268.6
27.5°	2221.2	2194.2	2176.4	2116.8	2068.8	2061.4	2052.2	2019.6	1884.4	1785.5	1366.3
30°	2416.1	2394.6	2370.6	2275.3	2225.5	2217.6	2172.1	2181.3	2047.3	1937.3	1476.9
32.5°	2563.6	2565.4	2510.7	2438.8	2392.1	2349.7	2333.1	2359.5	2256.3	2167.8	1600.5
35°	2682.8	2688.4	2636.1	2571.0	2520.6	2550.1	2542.7	2555.0	2505.8	2397.6	1744.3
37.5°	2799.0	2771.3	2715.4	2684.1	2657.6	2706.2	2768.9	2779.3	2788.5	2661.3	1911.5
40°	2818.0	2820.5	2787.9	2810.0	2776.9	2850.0	2995.7	2982.1	3019.6	2908.4	2092.8
42.5°	2791.0	2796.5	2809.4	2840.8	2920.7	3008.6	3224.9	3169.6	3215.1	3116.1	2269.2
45°	2746.7	2724.0	2740.0	2859.2	2997.5	3193.0	3434.5	3391.5	3376.7	3293.8	2479.4
47.5°	2535.3	2558.7	2608.5	2755.3	2963.1	3224.9	3583.2	3573.4	3617.7	3559.3	2670.5
50°	2242.1	2232.9	2328.8	2494.1	2762.1	3162.2	3575.3	3664.4	3759.6	3678.5	2756.0
52.5°	1679.1	1728.3	1810.7	2016.0	2398.3	2820.5	3400.7	3549.4	3626.9	3609.7	2687.1
55°	1061.5	1076.2	1126.0	1370.0	1714.2	2263.6	2915.1	3260.0	3398.2	3462.8	2623.8
57.5°	515.7	488.0	548.9	744.9	990.2	1522.4	2248.3	2839.5	3140.1	3256.9	2486.1
60°	269.2	279.7	303.6	373.7	512.0	790.4	1401.3	1892.4	2351.5	2531.0	1884.4
62.5°	223.1	226.8	242.8	277.8	340.5	454.8	715.4	922.5	1199.1	1360.8	1071.9
65°	189.3	191.1	208.4	231.7	271.7	320.2	368.2	385.4	466.5	478.8	381.1
67.5°	158.0	159.8	178.2	200.4	226.2	239.1	251.4	250.2	259.4	255.7	255.1
70°	121.7	123.5	142.6	165.9	178.9	171.5	209.6	218.2	221.9	225.0	229.9
72.5°	87.9	91.6	106.3	122.9	116.2	133.4	172.7	185.6	190.5	192.4	198.5
75°	63.9	65.1	68.8	63.9	73.8	92.8	121.7	137.7	143.8	145.7	154.9
77.5°	28.3	28.9	29.5	36.9	47.3	57.8	72.5	85.4	94.0	96.5	99.0
80°	14.8	15.4	19.1	25.2	33.8	42.4	52.9	60.2	65.8	66.4	68.8
82.5°	9.2	9.8	13.5	17.8	24.0	31.3	38.7	44.9	49.2	49.8	50.4
85°	4.3	5.5	8.0	11.1	16.0	20.3	20.9	17.8	19.1	19.7	18.4
87.5°	1.2	1.8	2.5	1.8	2.5	2.5	3.1	3.7	3.7	3.7	4.3
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: P526708

CATALOG NUMBER: GALN-SA1C-830-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4
2.5°	702.5	697.0	675.5	667.5	646.6	650.3	639.2	638.6	636.1	635.5	634.9
5°	719.7	702.5	676.7	657.0	645.4	644.1	636.1	636.1	638.6	640.4	636.1
7.5°	748.0	728.3	684.7	666.2	655.8	654.0	648.4	644.1	649.7	647.8	642.9
10°	780.6	746.2	700.1	684.1	666.9	662.6	662.6	664.4	655.2	658.3	653.3
12.5°	816.8	770.7	719.7	701.3	681.0	678.5	677.3	663.8	668.7	666.2	654.0
15°	862.9	799.0	744.9	713.6	696.4	685.3	669.3	666.9	663.8	657.6	652.1
17.5°	912.7	829.7	756.6	717.3	691.4	683.5	671.2	658.3	649.0	650.3	646.0
20°	955.1	858.0	760.9	721.0	687.8	672.4	653.3	645.4	635.5	634.9	634.3
22.5°	1005.5	896.1	767.0	711.1	676.7	660.7	647.8	633.7	626.9	618.3	622.6
25°	1065.8	910.9	768.3	705.6	668.7	640.4	633.7	618.3	615.9	603.6	606.0
27.5°	1109.4	918.9	758.4	688.4	650.3	628.8	616.5	605.4	601.1	591.9	589.4
30°	1167.8	931.2	737.5	666.9	631.8	607.9	600.5	598.0	585.7	575.9	574.7
32.5°	1234.2	939.1	724.0	644.7	612.8	594.3	598.0	586.3	571.0	562.4	559.9
35°	1287.0	942.2	690.2	619.5	599.9	588.2	583.9	581.4	559.3	551.3	545.2
37.5°	1367.5	935.5	661.9	601.7	585.7	581.4	577.7	561.1	535.9	524.3	515.7
40°	1461.6	933.6	625.7	576.5	572.2	577.1	566.1	540.3	505.2	492.3	486.2
42.5°	1551.9	946.5	602.9	563.0	557.5	559.3	543.9	505.2	488.0	480.6	470.8
45°	1703.1	973.6	565.5	542.1	539.6	538.4	520.0	479.4	469.6	460.4	458.5
47.5°	1839.6	955.7	541.5	520.6	523.0	516.3	476.9	464.0	453.0	443.8	440.7
50°	1847.6	913.3	507.7	504.0	504.6	492.9	455.4	446.8	432.7	426.5	422.2
52.5°	1805.8	843.9	476.3	477.6	479.4	460.4	429.0	422.9	411.2	402.6	400.1
55°	1688.4	735.7	445.6	450.5	455.4	419.2	409.3	394.0	384.8	372.5	373.1
57.5°	1487.4	592.5	402.6	410.6	421.0	381.1	373.7	354.6	341.1	331.3	330.1
60°	996.9	421.6	338.0	341.1	364.5	348.5	347.9	328.8	310.4	301.8	296.9
62.5°	588.2	322.1	291.9	288.9	288.3	297.5	312.8	306.1	282.1	265.5	270.4
65°	307.9	278.4	271.7	261.2	255.1	252.6	264.3	267.4	251.4	233.6	232.3
67.5°	258.8	258.8	253.2	249.5	240.9	230.5	223.1	213.3	210.8	205.9	199.8
70°	235.4	241.5	239.7	231.1	223.7	212.0	193.0	177.0	161.6	156.1	159.8
72.5°	205.3	211.4	211.4	207.1	197.3	179.5	161.0	142.6	129.7	119.9	118.6
75°	158.0	161.0	168.4	163.5	150.6	139.5	120.5	101.4	89.1	79.9	78.1
77.5°	100.8	105.7	105.7	105.1	95.9	85.4	73.1	59.6	50.4	43.6	41.8
80°	67.0	70.1	72.5	70.1	63.9	55.9	46.7	37.5	30.7	25.2	24.0
82.5°	49.2	52.9	54.7	52.2	46.1	40.0	33.2	26.4	19.7	15.4	14.1
85°	19.1	19.7	22.1	26.4	25.8	25.2	20.3	14.8	11.1	8.0	7.4
87.5°	4.9	4.3	4.9	4.9	4.3	3.7	3.7	3.7	3.7	1.8	2.5
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)