

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: P652198

Luminaire Tested: **GALN-SA1B-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4802.1 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

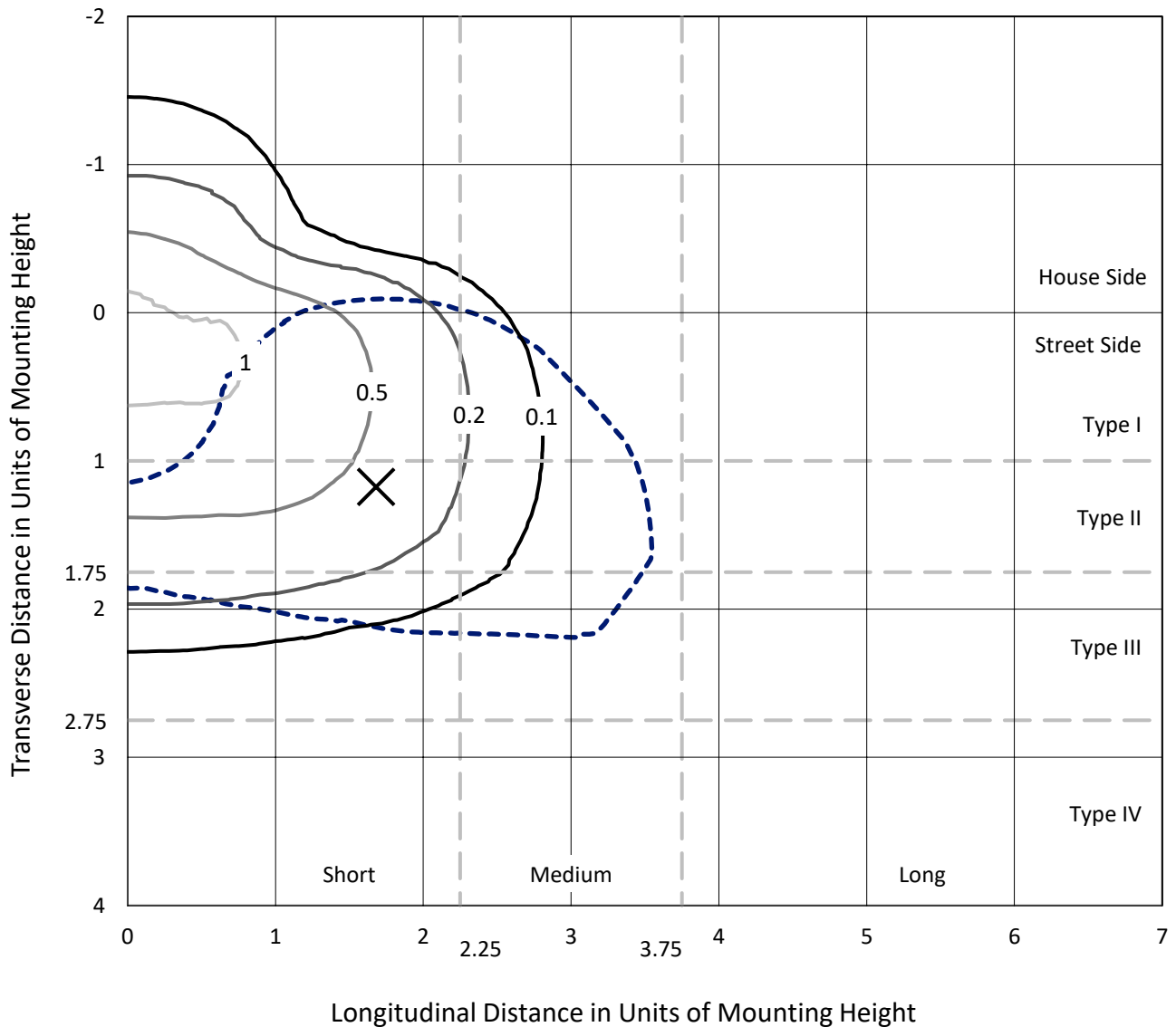
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

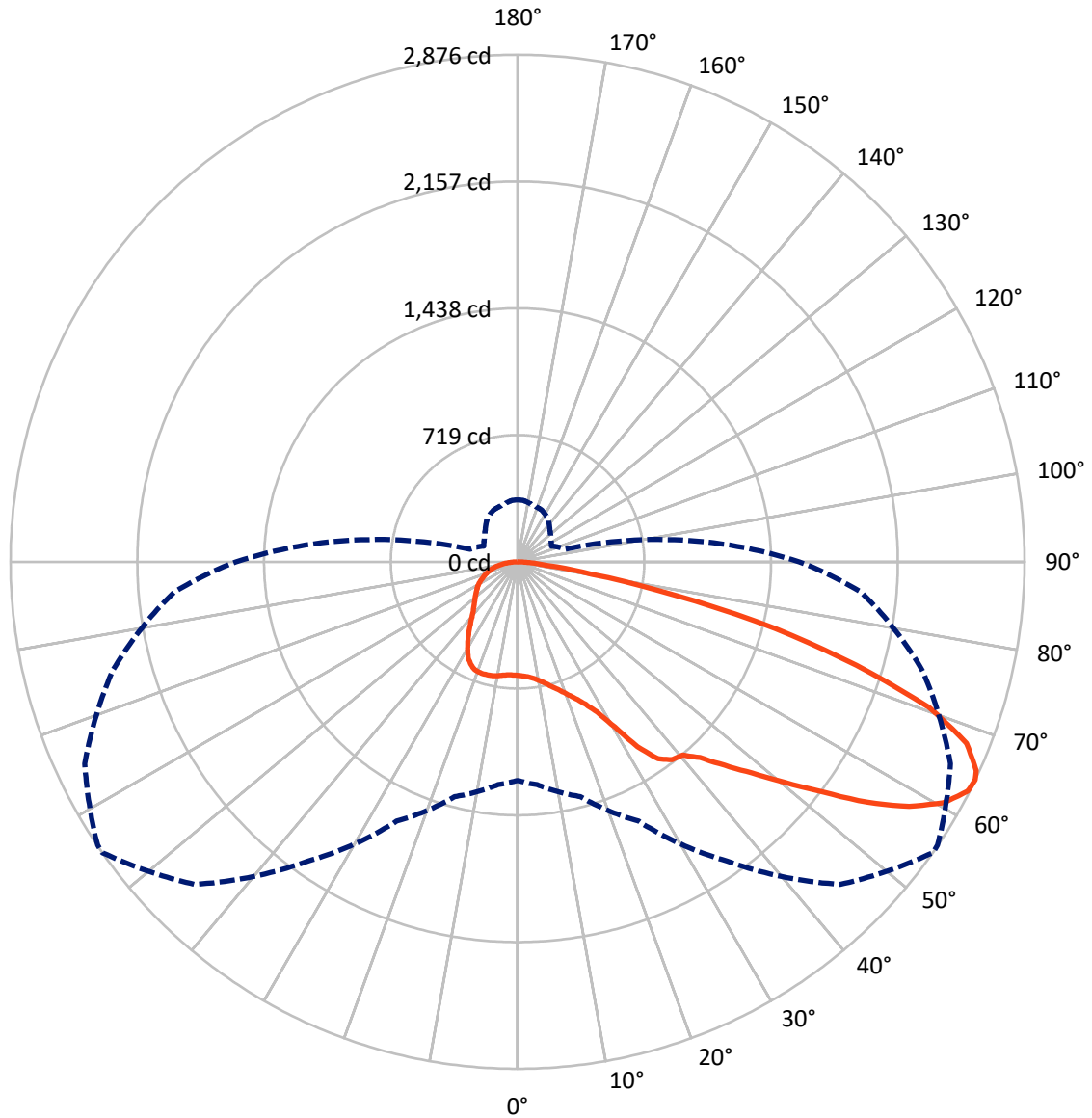
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1166.5	0.0	1166.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	3635.6	0.0	3635.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	4802.1	0.0	4802.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	1.3
10°-20°	197.8	4.1
20°-30°	352.1	7.3
30°-40°	541.7	11.3
40°-50°	767.9	16.0
50°-60°	1111.5	23.1
60°-70°	1150.2	24.0
70°-80°	538.7	11.2
80°-90°	79.7	1.7
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°	4802.1	100.0
0°-180°	4802.1	100.0

Coefficient of Utilization

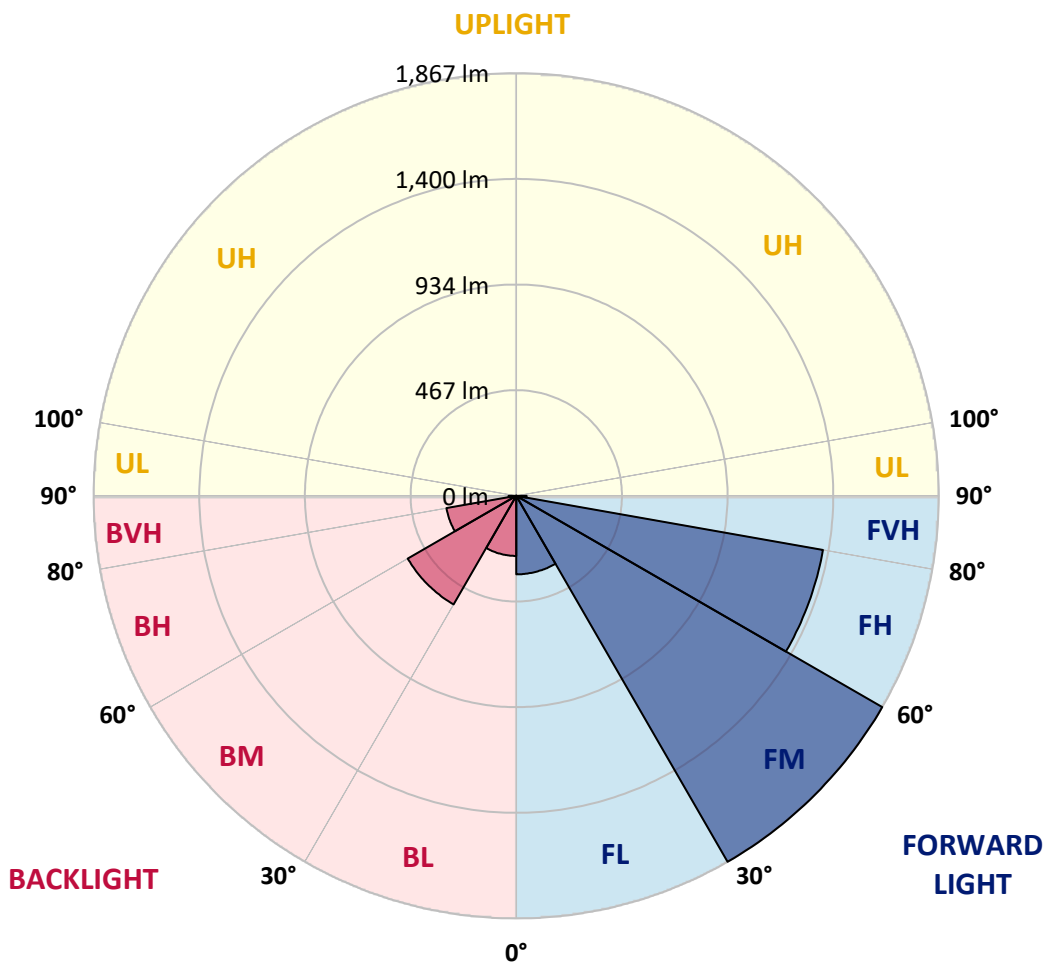


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	346.8	7.2			
FM (30°-60°)	1867.2	38.9			
FH (60°-80°)	1375.9	28.7			G1/1800
FVH (80°-90°)	45.7	1.0			G1/100
BL (0°-30°)	265.7	5.5	B1/500		
BM (30°-60°)	553.8	11.5	B1/1000		
BH (60°-80°)	313.0	6.5	B1/500		G1/500
BVH (80°-90°)	34.1	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3
2.5°	651.5	651.3	652.0	651.3	651.8	649.9	649.1	649.7	648.8	647.5	645.1
5°	659.6	659.3	659.6	658.5	659.0	657.9	656.1	656.7	655.3	652.4	648.8
7.5°	673.2	672.1	672.1	671.9	670.8	669.2	667.8	667.3	666.0	662.2	656.9
10°	690.9	690.9	691.1	689.0	690.4	687.4	686.1	685.8	681.2	676.4	668.9
12.5°	714.2	715.5	714.7	713.6	713.1	712.0	707.4	708.5	703.5	695.2	686.1
15°	743.1	745.2	743.9	743.4	742.0	738.0	736.1	735.3	728.6	716.5	704.5
17.5°	781.4	778.7	777.6	776.2	770.6	767.7	764.5	764.0	758.1	743.9	725.1
20°	814.8	818.5	816.4	815.1	809.5	803.8	801.4	800.6	795.5	780.0	750.0
22.5°	854.7	855.5	856.3	853.1	850.4	846.1	841.8	840.5	838.6	822.6	785.9
25°	897.3	900.5	897.8	894.6	891.4	891.1	895.1	894.6	893.8	878.3	833.5
27.5°	966.6	969.5	970.3	966.8	954.5	955.6	964.7	967.7	979.9	954.3	894.8
30°	1005.7	1008.6	1015.3	1028.4	1048.0	1065.1	1087.1	1093.7	1105.5	1057.1	967.7
32.5°	1029.7	1030.8	1042.8	1067.2	1125.8	1189.8	1249.5	1251.9	1259.4	1191.4	1034.3
35°	1067.7	1068.6	1078.2	1105.0	1173.8	1280.3	1372.7	1375.6	1369.4	1233.2	1065.4
37.5°	1114.6	1116.8	1122.9	1145.1	1227.3	1356.0	1423.8	1421.6	1367.0	1266.4	1120.2
40°	1182.9	1182.9	1175.6	1205.7	1283.8	1399.4	1441.7	1437.9	1423.5	1362.5	1203.7
42.5°	1243.1	1242.0	1259.1	1279.5	1354.4	1466.4	1516.9	1523.1	1546.9	1483.2	1298.8
45°	1321.5	1326.3	1336.0	1372.9	1474.6	1580.7	1645.9	1651.8	1685.5	1625.3	1409.9
47.5°	1400.8	1402.4	1432.6	1481.8	1623.5	1735.7	1789.1	1798.8	1829.6	1791.6	1529.5
50°	1456.9	1472.3	1520.7	1598.3	1776.9	1924.6	1966.3	1977.9	2032.2	1972.5	1669.0
52.5°	1516.4	1531.4	1590.5	1708.8	1953.0	2117.9	2169.3	2177.0	2233.5	2155.6	1811.6
55°	1567.3	1581.2	1648.4	1806.8	2093.2	2315.1	2408.3	2399.2	2426.2	2296.7	1921.7
57.5°	1575.5	1586.8	1671.4	1869.5	2198.7	2484.3	2617.9	2623.2	2591.9	2402.1	2012.4
60°	1511.3	1534.3	1631.5	1862.7	2246.1	2602.1	2774.2	2778.0	2689.1	2456.2	2048.5
62.5°	1397.6	1395.1	1512.6	1755.2	2179.7	2628.9	2866.3	2862.3	2727.1	2430.2	2013.4
64°	1240.4	1269.3	1379.1	1623.0	2072.6	2587.7	2875.9	2873.8	2708.9	2376.2	1953.8
65°	1144.6	1143.0	1251.4	1514.8	1966.1	2525.5	2858.8	2855.9	2670.8	2327.7	1907.5
67.5°	826.3	830.1	937.1	1168.9	1598.3	2282.7	2747.1	2736.2	2521.0	2167.1	1731.4
70°	500.6	502.7	586.8	775.5	1147.3	1845.4	2476.2	2476.8	2291.6	1927.2	1473.6
72.5°	263.7	269.3	303.0	440.3	696.8	1294.7	2008.9	2056.6	1967.4	1644.9	1164.1
75°	146.7	147.5	171.3	217.1	355.5	724.6	1509.9	1523.6	1557.6	1323.9	860.8
77.5°	111.9	113.5	121.0	140.3	193.5	335.9	913.8	982.4	1097.8	933.4	491.2
80°	90.7	92.3	98.7	110.3	128.8	159.3	424.5	461.5	587.5	414.4	191.7
82.5°	70.6	69.6	77.9	85.4	93.7	94.2	174.3	192.8	239.3	178.3	83.0
85°	52.5	52.5	59.1	57.5	60.5	55.2	76.8	84.9	95.8	75.8	38.5
87.5°	20.9	23.0	38.9	34.8	27.0	21.7	28.3	29.9	33.2	29.7	16.1
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°	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3
2.5°	645.4	646.1	644.3	642.9	642.4	641.6	640.8	641.1	642.2	643.2	642.9
5°	648.6	648.8	645.6	644.0	642.9	641.9	641.9	642.7	644.8	646.5	646.5
7.5°	656.7	656.7	652.0	649.1	647.5	645.6	645.1	645.4	647.0	649.1	649.4
10°	669.2	668.1	662.2	657.7	654.7	650.2	646.1	644.0	644.8	646.1	646.1
12.5°	684.5	681.5	674.0	667.8	660.6	652.0	643.8	639.5	639.2	640.6	640.0
15°	700.8	697.5	687.1	675.9	663.3	650.7	640.8	634.7	629.8	628.5	631.4
17.5°	719.8	713.1	698.6	683.1	664.4	648.1	632.5	619.9	611.4	609.0	609.8
20°	742.8	733.9	714.4	690.0	663.5	638.4	614.4	597.4	583.6	579.3	579.8
22.5°	774.6	759.4	730.7	693.6	656.9	620.2	586.8	564.8	547.9	541.3	545.2
25°	810.8	794.2	746.3	692.7	639.5	591.1	554.1	525.5	510.2	500.3	502.4
27.5°	860.6	831.2	762.9	685.5	614.6	555.4	512.6	485.6	471.6	466.6	468.9
30°	924.3	879.0	780.8	666.0	575.2	510.5	470.9	453.2	444.9	438.4	440.6
32.5°	970.3	912.7	784.8	633.0	532.7	469.5	442.5	429.3	420.2	414.1	415.5
35°	1003.2	941.4	783.0	592.7	488.3	435.8	420.0	409.3	394.6	381.1	378.8
37.5°	1047.4	977.3	769.3	548.5	444.4	413.0	401.7	382.0	360.8	342.9	342.1
40°	1115.2	1019.3	740.2	496.5	406.9	396.2	382.5	356.8	334.0	319.6	318.6
42.5°	1185.0	1058.1	700.5	441.9	376.1	378.5	361.9	336.5	322.5	313.2	312.1
45°	1270.4	1100.1	657.7	394.6	353.3	361.9	344.0	329.3	320.9	314.8	313.2
47.5°	1362.8	1143.3	609.5	352.0	334.0	346.7	336.5	329.8	325.2	320.9	319.1
50°	1462.3	1191.4	564.2	317.7	316.6	330.8	335.6	333.3	330.6	329.3	327.7
52.5°	1571.5	1240.6	526.2	293.7	301.4	319.6	335.9	337.8	337.8	337.0	335.9
55°	1645.4	1275.0	487.7	274.1	285.9	310.5	335.4	342.6	345.3	344.2	343.1
57.5°	1700.0	1293.7	439.3	257.3	272.7	301.7	332.4	343.1	345.8	347.2	346.7
60°	1711.3	1276.3	375.8	239.6	258.6	288.8	321.8	335.1	338.6	346.9	347.8
62.5°	1660.6	1222.7	312.7	222.2	241.2	269.3	307.3	326.1	333.0	345.8	347.2
64°	1598.6	1162.8	277.6	211.2	229.9	258.3	300.1	323.6	332.7	349.9	350.9
65°	1553.1	1119.1	255.7	204.3	222.7	251.1	296.0	324.5	335.1	356.0	357.6
67.5°	1385.5	969.0	211.4	187.9	205.5	238.8	296.9	331.1	334.6	358.4	358.2
70°	1146.5	771.4	177.2	172.9	189.0	228.8	293.7	320.4	320.7	336.5	332.7
72.5°	858.4	570.1	153.7	157.4	170.5	205.3	277.3	306.0	301.4	303.5	299.8
75°	589.7	377.2	132.2	140.8	151.2	181.5	254.3	277.9	270.6	267.9	265.3
77.5°	314.8	208.5	110.0	124.5	131.4	156.8	221.9	244.6	237.2	226.7	223.2
80°	127.4	98.2	88.6	103.0	107.1	126.3	184.7	198.9	193.3	175.1	169.2
82.5°	64.0	58.9	69.6	81.1	81.4	90.2	137.3	150.7	138.1	115.9	110.8
85°	33.5	34.6	47.9	57.0	50.3	48.7	82.4	91.2	83.8	72.8	65.6
87.5°	12.0	14.0	25.1	24.9	17.7	9.3	18.2	8.8	4.8	2.9	3.8
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)