

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: P528083

Luminaire Tested: **GALN-SA3A-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-827-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5920 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

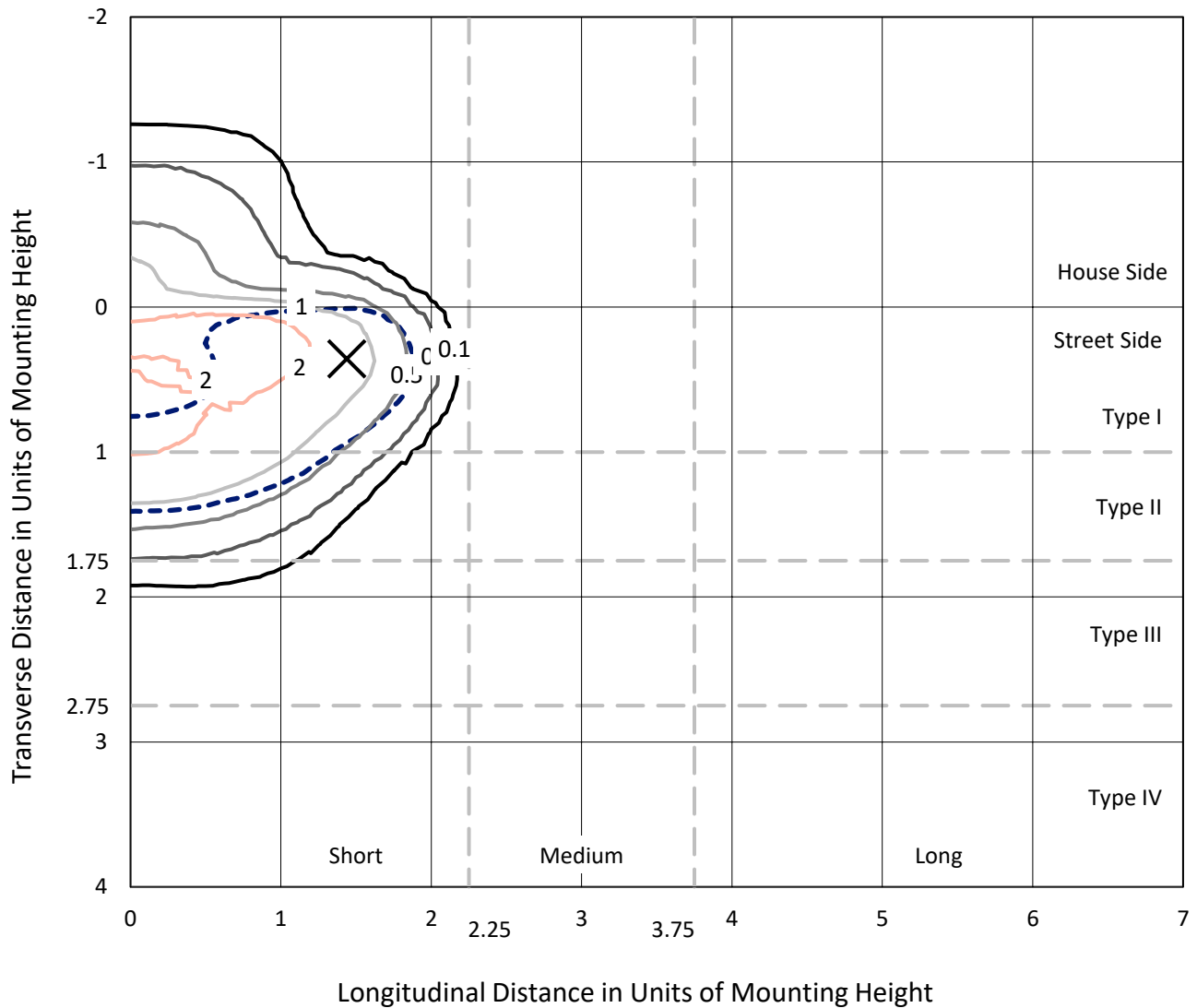
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

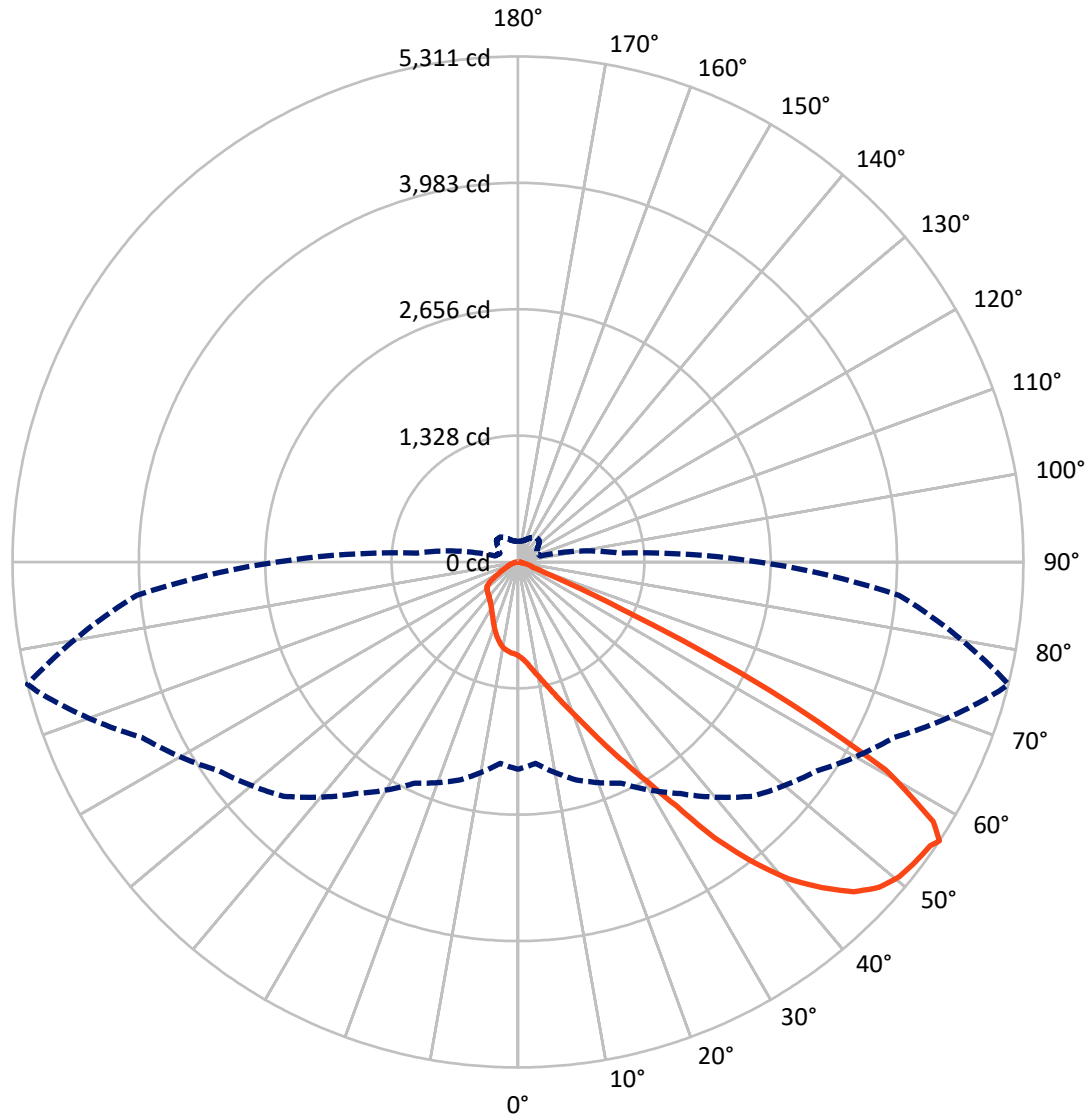
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA3A-827-U-T2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	930.0	0.0	930.0
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	4990.0	0.0	4990.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	5920.0	0.0	5920.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	1.7
10°-20°	318.9	5.4
20°-30°	578.3	9.8
30°-40°	997.2	16.8
40°-50°	1620.0	27.4
50°-60°	1707.6	28.8
60°-70°	521.7	8.8
70°-80°	66.9	1.1
80°-90°	10.2	0.2
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°	5920.0	100.0
0°-180°	5920.0	100.0

Coefficient of Utilization

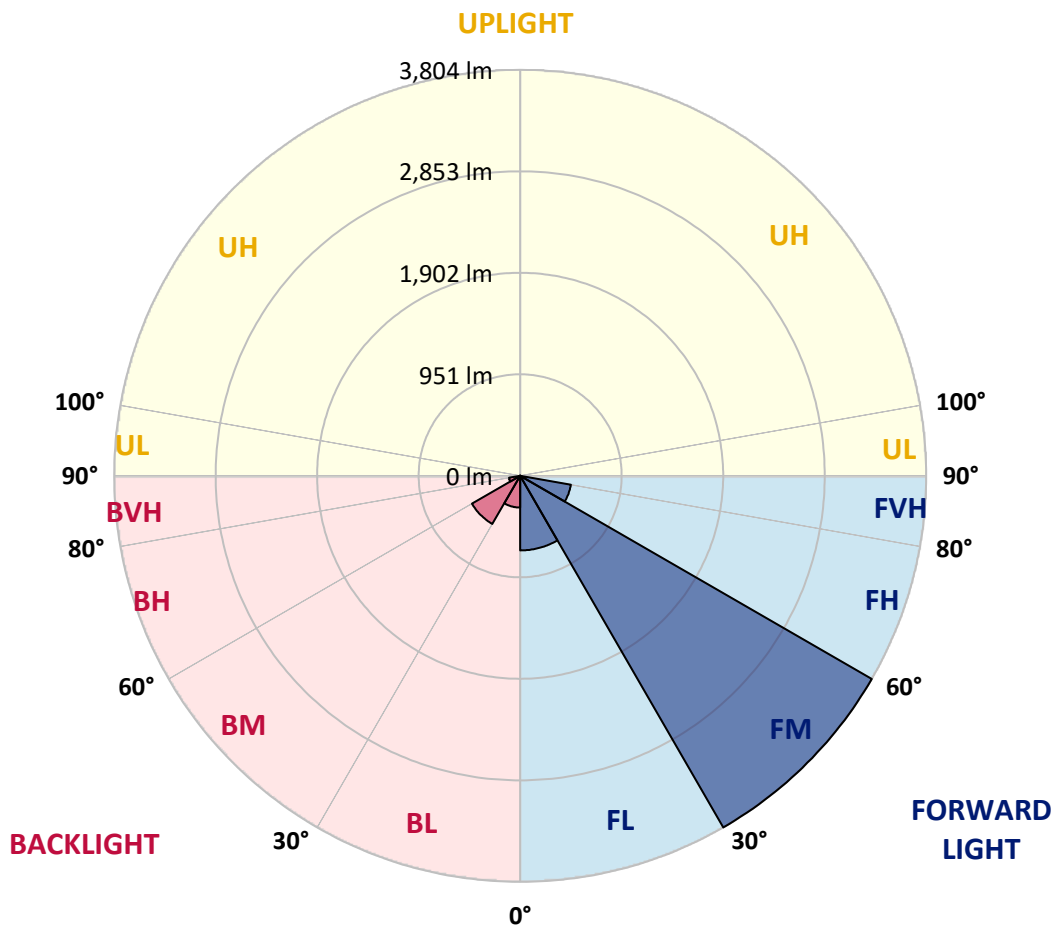


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	698.9	11.8			
FM (30°-60°)	3803.6	64.2			
FH (60°-80°)	482.5	8.2			G0/660
FVH (80°-90°)	5.0	0.1			G0/10
BL (0°-30°)	297.5	5.0	B1/500		
BM (30°-60°)	521.2	8.8	B1/1000		
BH (60°-80°)	106.1	1.8	B0/110		G0/110
BVH (80°-90°)	5.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4
2.5°	1134.9	1108.7	1109.8	1107.6	1104.3	1092.3	1056.3	1050.9	1026.9	1020.3	998.5
5°	1271.3	1248.4	1261.5	1241.8	1223.3	1212.4	1153.4	1126.2	1088.0	1073.8	1043.2
7.5°	1356.4	1345.5	1341.1	1342.2	1324.8	1297.5	1271.3	1211.3	1160.0	1149.1	1084.7
10°	1397.9	1391.3	1397.9	1394.6	1402.2	1405.5	1359.7	1323.7	1248.4	1229.8	1129.4
12.5°	1407.7	1420.8	1426.3	1440.4	1459.0	1490.6	1487.4	1438.3	1337.9	1325.9	1198.2
15°	1431.7	1442.6	1437.2	1460.1	1495.0	1548.5	1576.8	1569.2	1461.2	1439.4	1277.8
17.5°	1453.5	1433.9	1452.4	1498.3	1533.2	1615.0	1683.8	1715.4	1595.4	1570.3	1351.0
20°	1483.0	1477.5	1474.3	1497.2	1559.4	1668.5	1804.9	1862.8	1746.0	1719.8	1455.7
22.5°	1572.5	1573.6	1571.4	1537.6	1582.3	1705.6	1910.8	2053.7	1926.0	1904.2	1574.7
25°	1690.3	1676.2	1665.2	1638.0	1632.5	1739.4	2017.7	2287.2	2142.1	2126.8	1703.4
27.5°	1814.7	1814.7	1782.0	1756.9	1722.0	1823.5	2115.9	2514.2	2402.9	2382.2	1815.8
30°	1950.1	1957.7	1953.3	1899.9	1878.0	1915.1	2216.3	2804.5	2701.9	2675.7	2001.3
32.5°	2149.7	2133.4	2151.9	2107.2	2042.8	2075.5	2374.5	3064.2	3090.4	3053.3	2244.7
35°	2413.8	2404.0	2392.0	2318.9	2242.5	2268.7	2598.3	3383.9	3578.2	3559.6	2490.2
37.5°	2650.6	2645.2	2635.4	2585.2	2496.8	2528.4	2852.5	3716.8	4054.0	3992.9	2837.2
40°	2899.4	2928.9	2897.3	2852.5	2771.8	2841.6	3151.5	3914.3	4454.5	4380.3	3102.4
42.5°	3236.6	3213.7	3227.9	3146.1	3102.4	3178.8	3451.6	4111.8	4765.5	4677.1	3383.9
45°	3595.6	3596.7	3558.5	3532.4	3418.9	3501.8	3636.0	4220.9	5013.2	4944.4	3596.7
47.5°	3825.9	3824.8	3866.3	3907.7	3791.0	3709.1	3761.5	4324.6	5140.8	5109.2	3674.2
50°	3789.9	3800.8	3854.3	4009.2	4070.3	3960.1	3879.4	4294.0	5198.7	5195.4	3740.8
52.5°	3296.6	3332.7	3422.1	3645.8	3953.6	4090.0	4002.7	4350.8	5227.1	5232.5	3840.1
55°	2509.9	2529.5	2699.7	2971.5	3311.9	3779.0	3953.6	4395.5	5248.9	5258.7	3960.1
56°	2177.0	2124.7	2370.2	2563.3	2970.4	3481.1	3829.2	4360.6	5235.8	5311.1	4020.1
57.5°	1643.4	1608.5	1807.1	2048.3	2440.0	2979.1	3442.9	4195.8	5147.4	5146.3	3933.9
60°	999.6	964.7	1117.4	1259.3	1478.6	1834.4	2326.5	3341.4	4351.9	4443.5	3185.3
62.5°	594.7	616.6	767.1	853.4	924.3	961.4	1203.6	1986.1	2903.8	2969.3	1976.2
65°	396.1	403.8	517.2	659.1	690.8	550.0	490.0	804.2	1259.3	1218.9	815.2
67.5°	244.4	261.9	347.0	495.4	548.9	401.6	232.4	300.1	347.0	347.0	235.7
70°	148.4	157.1	231.3	337.2	376.5	258.6	169.1	169.1	167.0	163.7	140.8
72.5°	70.9	76.4	117.9	173.5	176.8	136.4	130.9	143.0	139.7	138.6	116.8
75°	30.6	32.7	41.5	54.6	62.2	57.8	79.7	102.6	105.9	102.6	84.0
77.5°	9.8	10.9	15.3	19.6	20.7	25.1	33.8	42.6	49.1	45.8	41.5
80°	1.1	2.2	4.4	9.8	15.3	19.6	25.1	28.4	31.6	31.6	29.5
82.5°	1.1	1.1	4.4	8.7	14.2	18.6	24.0	27.3	31.6	32.7	30.6
85°	0.0	1.1	3.3	7.6	12.0	12.0	10.9	10.9	7.6	7.6	7.6
87.5°	0.0	0.0	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2
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°	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4
2.5°	994.1	991.9	962.5	943.9	934.1	914.5	902.5	893.7	887.2	879.5	880.6
5°	1007.2	999.6	950.5	916.6	876.3	854.4	835.9	820.6	810.8	808.6	804.2
7.5°	1044.3	1003.9	929.7	868.6	817.3	795.5	779.1	769.3	773.7	763.9	771.5
10°	1072.7	1012.7	904.6	816.3	765.0	748.6	739.9	747.5	758.4	754.0	748.6
12.5°	1107.6	1021.4	864.3	766.1	718.0	706.0	721.3	735.5	757.3	766.1	755.1
15°	1146.9	1031.2	813.0	708.2	677.7	687.5	713.7	738.8	760.6	771.5	778.1
17.5°	1194.9	1028.0	762.8	662.4	639.5	667.8	699.5	722.4	755.1	771.5	767.1
20°	1239.7	1017.0	707.1	616.6	617.6	643.8	670.0	707.1	724.6	746.4	738.8
22.5°	1282.2	997.4	649.3	584.9	584.9	625.3	638.4	662.4	677.7	688.6	687.5
25°	1342.2	960.3	601.3	554.4	567.4	593.6	604.5	612.2	605.6	614.4	615.5
27.5°	1384.8	922.1	562.0	527.1	551.1	570.7	567.4	563.1	547.8	535.8	543.4
30°	1430.6	877.4	528.2	508.5	521.6	539.1	526.0	512.9	488.9	469.2	470.3
32.5°	1496.1	856.6	498.7	486.7	504.2	506.3	492.2	472.5	448.5	429.9	428.9
35°	1618.3	843.5	473.6	472.5	475.8	476.9	462.7	438.7	428.9	413.6	419.0
37.5°	1740.5	837.0	456.1	451.8	450.7	451.8	435.4	412.5	431.0	429.9	432.1
40°	1896.6	866.4	431.0	425.6	426.7	426.7	405.9	399.4	432.1	435.4	436.5
42.5°	2054.8	903.5	414.7	397.2	401.6	401.6	390.7	383.0	405.9	384.1	380.8
45°	2192.3	958.1	397.2	368.8	379.8	385.2	381.9	368.8	354.7	317.6	317.6
47.5°	2237.0	1006.1	376.5	341.6	350.3	374.3	364.5	337.2	312.1	281.5	279.4
50°	2315.6	1058.5	360.1	309.9	328.5	357.9	348.1	320.8	292.5	270.6	271.7
52.5°	2396.4	1118.5	329.6	272.8	295.7	344.8	344.8	314.3	270.6	255.4	253.2
55°	2517.5	1116.3	275.0	223.7	264.1	325.2	330.6	281.5	242.3	230.3	230.3
56°	2535.0	1066.1	247.7	209.5	249.9	319.7	320.8	272.8	231.3	218.2	218.2
57.5°	2404.0	962.5	217.2	192.1	232.4	309.9	311.0	265.2	222.6	204.1	201.9
60°	1849.7	651.5	181.1	171.3	210.6	279.4	284.8	241.2	195.3	181.1	180.1
62.5°	1044.3	361.2	159.3	155.0	181.1	237.9	254.3	210.6	165.9	158.2	160.4
65°	476.9	198.6	134.2	125.5	146.2	183.3	205.2	173.5	136.4	127.7	127.7
67.5°	174.6	135.3	114.6	99.3	102.6	118.9	133.1	112.4	90.6	77.5	80.8
70°	124.4	113.5	100.4	86.2	79.7	77.5	76.4	63.3	44.7	34.9	37.1
72.5°	100.4	93.8	84.0	73.1	62.2	52.4	44.7	32.7	20.7	14.2	13.1
75°	72.0	68.7	61.1	52.4	43.6	37.1	30.6	20.7	10.9	5.5	5.5
77.5°	37.1	37.1	36.0	32.7	27.3	21.8	17.5	12.0	6.5	2.2	2.2
80°	28.4	30.6	31.6	28.4	25.1	19.6	14.2	8.7	4.4	1.1	1.1
82.5°	27.3	31.6	33.8	29.5	25.1	18.6	14.2	8.7	4.4	1.1	1.1
85°	6.5	6.5	9.8	10.9	14.2	15.3	12.0	7.6	3.3	1.1	1.1
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	0.0
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)