

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: P527615

Luminaire Tested: **GALN-SA2C-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527615
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-SA2C-827-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA 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: 6131 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

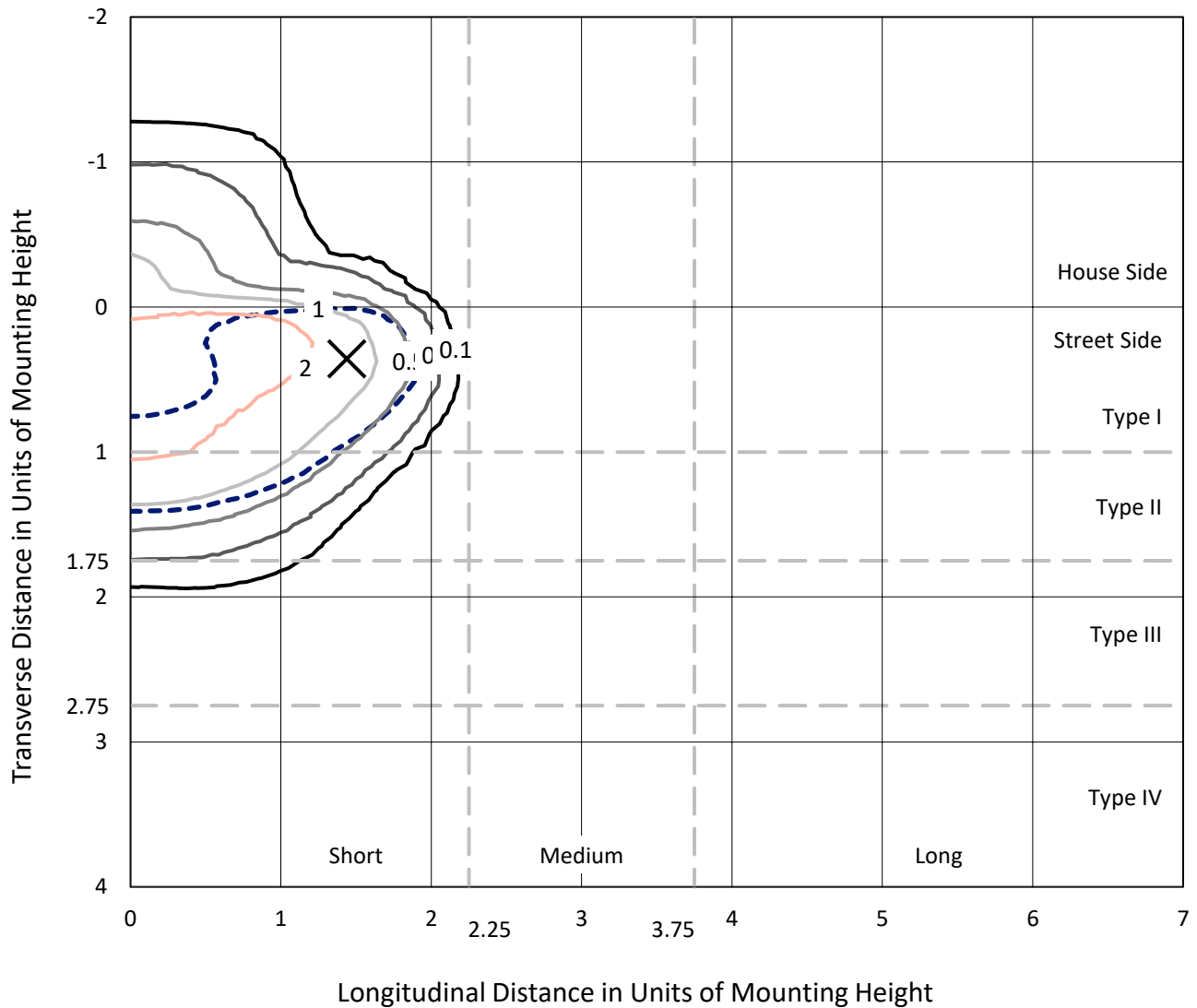
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

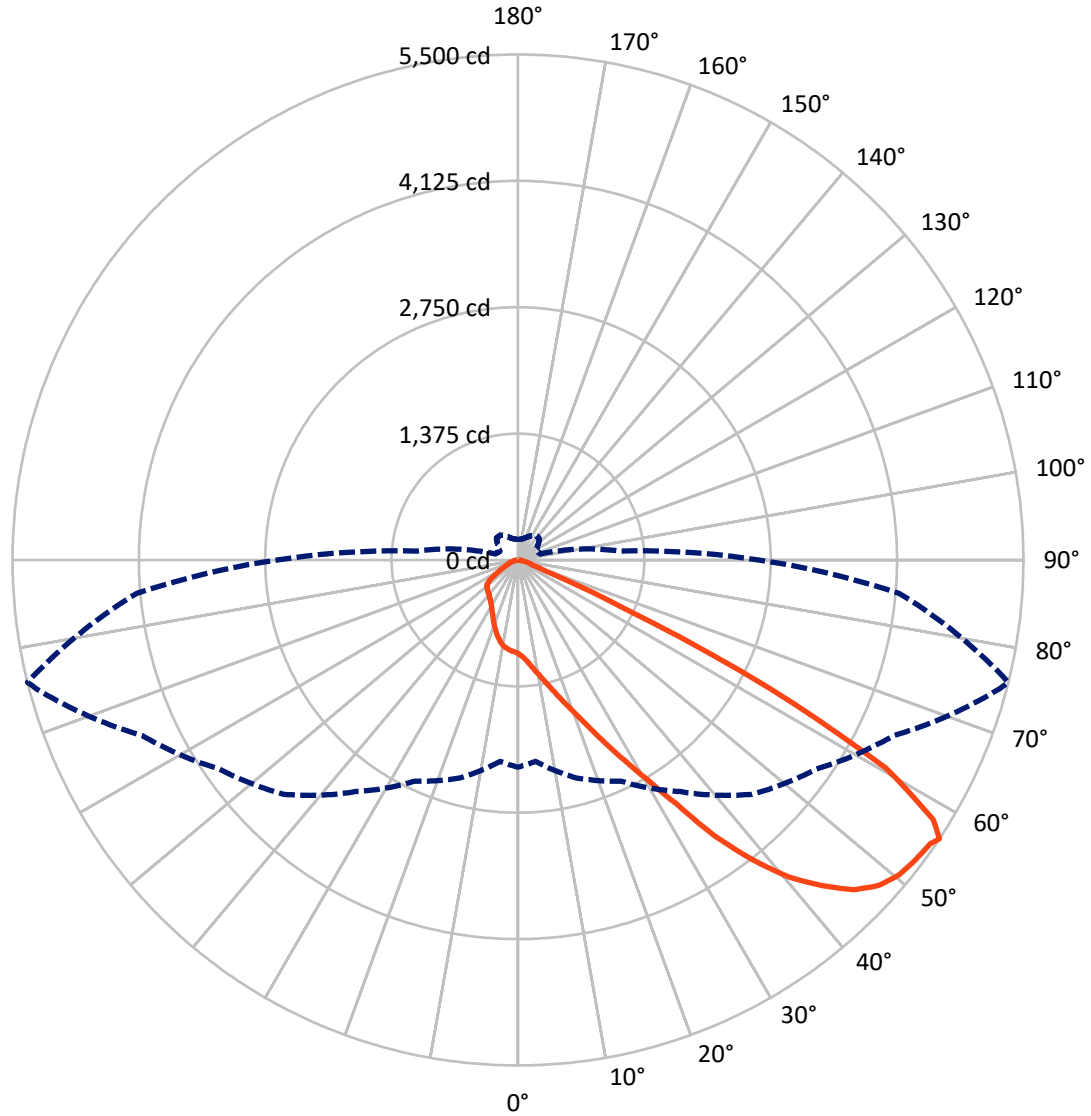
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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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	963.1	0.0	963.1
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	5167.9	0.0	5167.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	6131.0	0.0	6131.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	1.7
10°-20°	330.3	5.4
20°-30°	598.9	9.8
30°-40°	1032.8	16.8
40°-50°	1677.8	27.4
50°-60°	1768.4	28.8
60°-70°	540.3	8.8
70°-80°	69.3	1.1
80°-90°	10.5	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°	6131.0	100.0
0°-180°	6131.0	100.0

Coefficient of Utilization

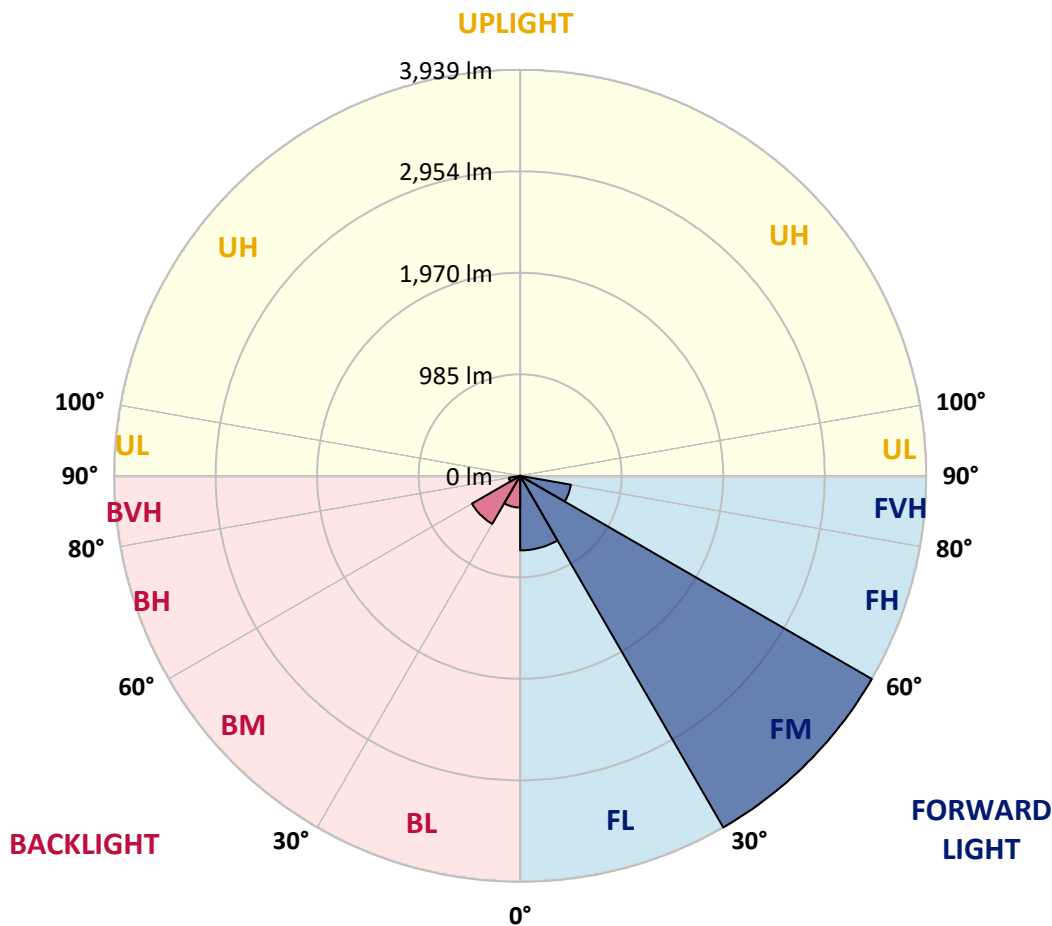


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.8	11.8			
FM (30°-60°)	3939.2	64.2			
FH (60°-80°)	499.7	8.2			G0/660
FVH (80°-90°)	5.2	0.1			G0/10
BL (0°-30°)	308.1	5.0	B1/500		
BM (30°-60°)	539.8	8.8	B1/1000		
BH (60°-80°)	109.9	1.8	B0/110		G0/110
BVH (80°-90°)	5.4	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°	1020.5	1020.5	1020.5	1020.5	1020.5	1020.5	1020.5	1020.5	1020.5	1020.5	1020.5
2.5°	1175.3	1148.2	1149.3	1147.1	1143.7	1131.3	1094.0	1088.3	1063.5	1056.7	1034.1
5°	1316.6	1292.9	1306.4	1286.1	1266.9	1255.6	1194.6	1166.3	1126.7	1112.1	1080.4
7.5°	1404.8	1393.5	1388.9	1390.1	1372.0	1343.7	1316.6	1254.5	1201.3	1190.0	1123.4
10°	1447.7	1440.9	1447.7	1444.3	1452.2	1455.6	1408.2	1370.9	1292.9	1273.7	1169.7
12.5°	1457.9	1471.4	1477.1	1491.8	1511.0	1543.8	1540.4	1489.5	1385.5	1373.1	1240.9
15°	1482.7	1494.0	1488.4	1512.1	1548.3	1603.7	1633.0	1625.1	1513.3	1490.7	1323.4
17.5°	1505.3	1485.0	1504.2	1551.7	1587.8	1672.6	1743.8	1776.6	1652.3	1626.3	1399.1
20°	1535.9	1530.2	1526.8	1550.5	1615.0	1728.0	1869.2	1929.1	1808.2	1781.1	1507.6
22.5°	1628.5	1629.7	1627.4	1592.4	1638.7	1766.4	1978.9	2126.9	1994.7	1972.1	1630.8
25°	1750.6	1735.9	1724.6	1696.3	1690.7	1801.4	2089.6	2368.8	2218.5	2202.6	1764.1
27.5°	1879.4	1879.4	1845.5	1819.5	1783.4	1888.5	2191.3	2603.8	2488.6	2467.1	1880.5
30°	2019.6	2027.5	2022.9	1967.6	1945.0	1983.4	2295.3	2904.5	2798.2	2771.1	2072.7
32.5°	2226.4	2209.4	2228.6	2182.3	2115.6	2149.5	2459.2	3173.4	3200.5	3162.1	2324.7
35°	2499.9	2489.7	2477.3	2401.5	2322.4	2349.6	2690.9	3504.6	3705.7	3686.5	2579.0
37.5°	2745.1	2739.5	2729.3	2677.3	2585.8	2618.5	2954.2	3849.2	4198.5	4135.2	2938.4
40°	3002.8	3033.3	3000.5	2954.2	2870.5	2942.9	3263.8	4053.8	4613.2	4536.4	3213.0
42.5°	3352.0	3328.3	3342.9	3258.2	3213.0	3292.1	3574.6	4258.4	4935.3	4843.8	3504.6
45°	3723.8	3724.9	3685.4	3658.3	3540.7	3626.6	3765.6	4371.4	5191.9	5120.7	3724.9
47.5°	3962.3	3961.1	4004.1	4047.0	3926.1	3841.3	3895.6	4478.7	5324.1	5291.3	3805.2
50°	3925.0	3936.3	3991.6	4152.1	4215.4	4101.3	4017.6	4447.1	5384.0	5380.6	3874.1
52.5°	3414.1	3451.4	3544.1	3775.8	4094.5	4235.8	4145.3	4505.9	5413.4	5419.0	3977.0
55°	2599.3	2619.7	2796.0	3077.4	3430.0	3913.7	4094.5	4552.2	5436.0	5446.1	4101.3
56°	2254.6	2200.4	2454.7	2654.7	3076.2	3605.1	3965.7	4516.0	5422.4	5500.4	4163.4
57.5°	1702.0	1665.8	1871.5	2121.3	2527.0	3085.3	3565.6	4345.4	5330.9	5329.7	4074.1
60°	1035.2	999.0	1157.3	1304.2	1531.3	1899.8	2409.5	3460.5	4507.0	4601.9	3298.9
62.5°	615.9	638.5	794.5	883.8	957.2	995.7	1246.5	2056.9	3007.3	3075.1	2046.7
65°	410.2	418.2	535.7	682.6	715.4	569.6	507.4	832.9	1304.2	1262.4	844.2
67.5°	253.2	271.2	359.4	513.1	568.5	415.9	240.7	310.8	359.4	359.4	244.1
70°	153.7	162.7	239.6	349.2	389.9	267.8	175.2	175.2	172.9	169.5	145.8
72.5°	73.5	79.1	122.1	179.7	183.1	141.3	135.6	148.0	144.7	143.5	120.9
75°	31.6	33.9	42.9	56.5	64.4	59.9	82.5	106.2	109.6	106.2	87.0
77.5°	10.2	11.3	15.8	20.3	21.5	26.0	35.0	44.1	50.9	47.5	42.9
80°	1.1	2.3	4.5	10.2	15.8	20.3	26.0	29.4	32.8	32.8	30.5
82.5°	1.1	1.1	4.5	9.0	14.7	19.2	24.9	28.3	32.8	33.9	31.6
85°	0.0	1.1	3.4	7.9	12.4	12.4	11.3	11.3	7.9	7.9	7.9
87.5°	0.0	0.0	1.1	1.1	1.1	2.3	2.3	2.3	2.3	2.3	2.3
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°	1020.5	1020.5	1020.5	1020.5	1020.5	1020.5	1020.5	1020.5	1020.5	1020.5	1020.5
2.5°	1029.6	1027.3	996.8	977.6	967.4	947.1	934.6	925.6	918.8	910.9	912.0
5°	1043.1	1035.2	984.3	949.3	907.5	884.9	865.7	849.9	839.7	837.4	832.9
7.5°	1081.5	1039.7	962.9	899.6	846.5	823.9	806.9	796.7	801.3	791.1	799.0
10°	1110.9	1048.8	936.9	845.3	792.2	775.3	766.2	774.1	785.4	780.9	775.3
12.5°	1147.1	1057.8	895.1	793.4	743.6	731.2	747.0	761.7	784.3	793.4	782.1
15°	1187.8	1068.0	842.0	733.5	701.8	712.0	739.1	765.1	787.7	799.0	805.8
17.5°	1237.5	1064.6	790.0	686.0	662.3	691.6	724.4	748.2	782.1	799.0	794.5
20°	1283.8	1053.3	732.3	638.5	639.7	666.8	693.9	732.3	750.4	773.0	765.1
22.5°	1327.9	1032.9	672.4	605.8	605.8	647.6	661.1	686.0	701.8	713.1	712.0
25°	1390.1	994.5	622.7	574.1	587.7	614.8	626.1	634.0	627.2	636.3	637.4
27.5°	1434.1	955.0	582.0	545.9	570.7	591.1	587.7	583.2	567.3	554.9	562.8
30°	1481.6	908.6	547.0	526.6	540.2	558.3	544.7	531.2	506.3	486.0	487.1
32.5°	1549.4	887.2	516.5	504.0	522.1	524.4	509.7	489.3	464.5	445.3	444.1
35°	1676.0	873.6	490.5	489.3	492.7	493.9	479.2	454.3	444.1	428.3	434.0
37.5°	1802.6	866.8	472.4	467.9	466.7	467.9	450.9	427.2	446.4	445.3	447.5
40°	1964.2	897.3	446.4	440.8	441.9	441.9	420.4	413.6	447.5	450.9	452.1
42.5°	2128.0	935.8	429.5	411.4	415.9	415.9	404.6	396.7	420.4	397.8	394.4
45°	2270.4	992.3	411.4	382.0	393.3	398.9	395.5	382.0	367.3	328.9	328.9
47.5°	2316.8	1042.0	389.9	353.7	362.8	387.6	377.5	349.2	323.2	291.6	289.3
50°	2398.2	1096.2	372.9	321.0	340.2	370.7	360.5	332.3	302.9	280.3	281.4
52.5°	2481.8	1158.4	341.3	282.5	306.3	357.1	357.1	325.5	280.3	264.5	262.2
55°	2607.2	1156.1	284.8	231.7	273.5	336.8	342.4	291.6	250.9	238.5	238.5
56°	2625.3	1104.1	256.5	217.0	258.8	331.1	332.3	282.5	239.6	226.0	226.0
57.5°	2489.7	996.8	224.9	198.9	240.7	321.0	322.1	274.6	230.5	211.3	209.1
60°	1915.6	674.7	187.6	177.4	218.1	289.3	295.0	249.8	202.3	187.6	186.5
62.5°	1081.5	374.1	165.0	160.5	187.6	246.4	263.3	218.1	171.8	163.9	166.1
65°	493.9	205.7	139.0	130.0	151.4	189.9	212.5	179.7	141.3	132.2	132.2
67.5°	180.8	140.1	118.7	102.8	106.2	123.2	137.9	116.4	93.8	80.2	83.6
70°	128.8	117.5	104.0	89.3	82.5	80.2	79.1	65.5	46.3	36.2	38.4
72.5°	104.0	97.2	87.0	75.7	64.4	54.2	46.3	33.9	21.5	14.7	13.6
75°	74.6	71.2	63.3	54.2	45.2	38.4	31.6	21.5	11.3	5.7	5.7
77.5°	38.4	38.4	37.3	33.9	28.3	22.6	18.1	12.4	6.8	2.3	2.3
80°	29.4	31.6	32.8	29.4	26.0	20.3	14.7	9.0	4.5	1.1	1.1
82.5°	28.3	32.8	35.0	30.5	26.0	19.2	14.7	9.0	4.5	1.1	1.1
85°	6.8	6.8	10.2	11.3	14.7	15.8	12.4	7.9	3.4	1.1	1.1
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	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)