

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: P450346

Luminaire Tested: **GALN-SA1A-827-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3330 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

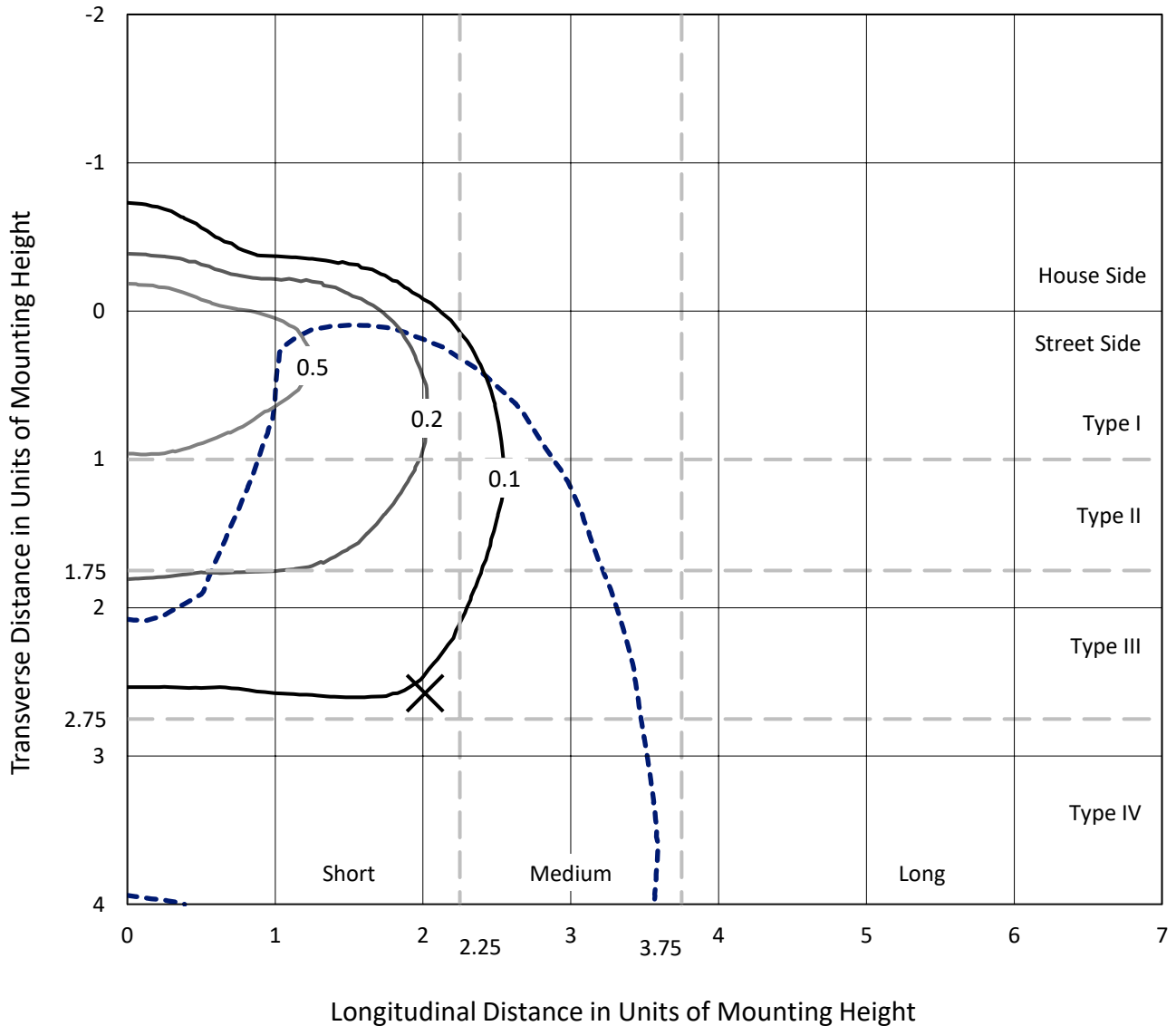
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

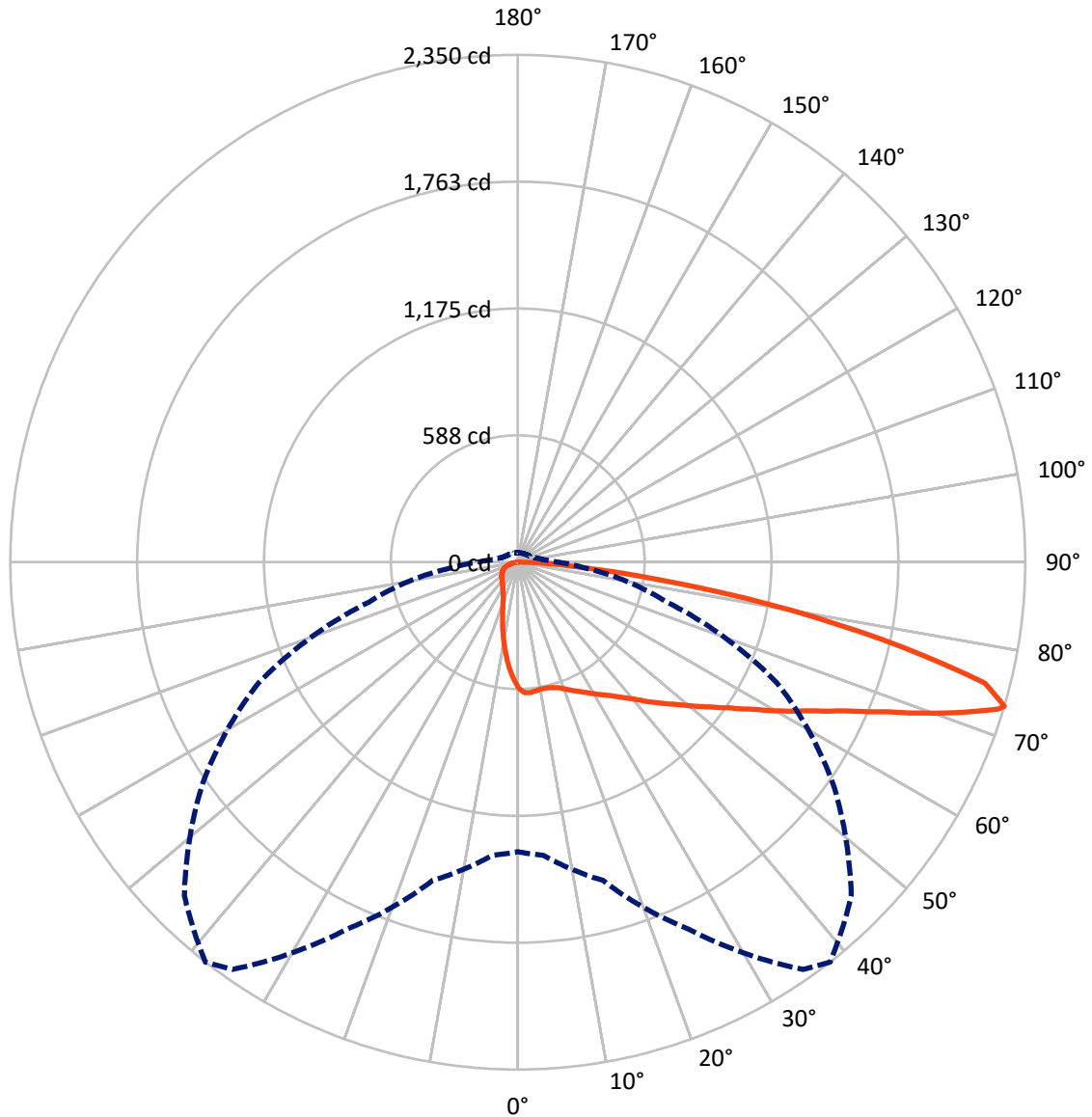
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	447.7	0.0	447.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	2882.4	0.0	2882.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	3330.0	0.0	3330.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	1.5
10°-20°	131.0	3.9
20°-30°	203.9	6.1
30°-40°	299.1	9.0
40°-50°	443.7	13.3
50°-60°	628.6	18.9
60°-70°	797.4	23.9
70°-80°	663.8	19.9
80°-90°	111.5	3.3
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°	3330.0	100.0
0°-180°	3330.0	100.0

Coefficient of Utilization



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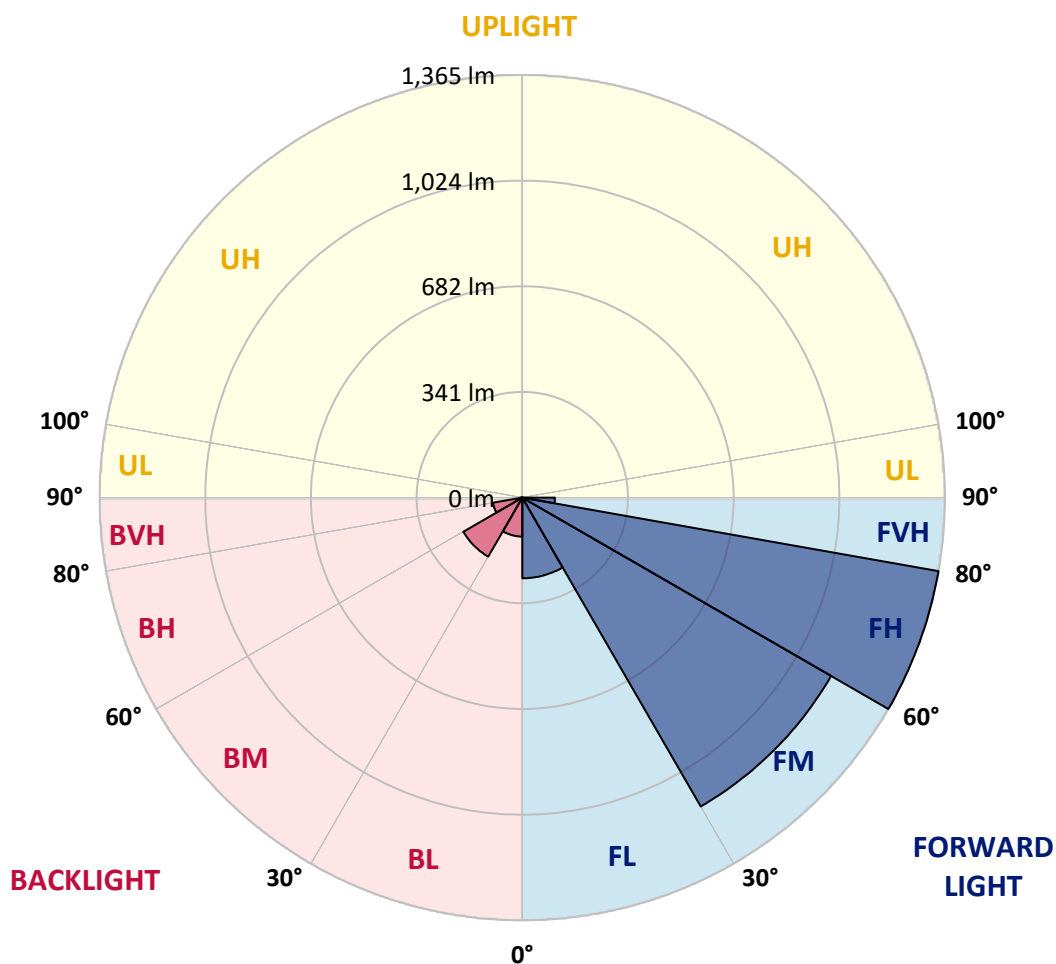
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	260.3	7.8			
FM (30°-60°)	1151.6	34.6			
FH (60°-80°)	1365.0	41.0			G1/1800
FVH (80°-90°)	105.5	3.2			G2/225
BL (0°-30°)	125.6	3.8	B1/500		
BM (30°-60°)	219.8	6.6	B0/220		
BH (60°-80°)	96.2	2.9	B0/110		G0/110
BVH (80°-90°)	6.0	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
2.5°	608.5	611.5	610.0	608.0	606.7	605.3	603.5	598.0	593.7	589.0	581.6
5°	613.0	614.9	613.6	611.0	608.0	606.7	603.1	595.9	589.0	581.1	570.2
7.5°	610.4	611.2	609.7	606.5	603.8	601.4	597.2	589.3	580.9	571.3	557.0
10°	601.0	603.8	603.8	601.2	598.6	597.2	593.1	585.6	577.9	567.0	550.0
12.5°	593.3	596.3	598.8	598.0	597.8	597.8	594.6	589.0	579.9	569.6	549.5
15°	588.0	591.6	596.9	599.9	601.8	602.3	601.0	596.1	586.9	574.9	551.7
17.5°	586.9	591.2	600.8	607.4	612.3	612.1	611.7	605.0	594.8	582.4	554.6
20°	592.0	597.6	611.0	621.3	628.5	627.1	625.1	616.2	604.4	590.5	557.2
22.5°	607.2	613.0	627.7	639.0	646.0	646.0	639.7	628.1	615.5	599.9	560.8
25°	629.0	635.4	651.0	662.5	665.7	663.3	657.0	642.9	628.5	613.4	568.3
27.5°	655.7	663.4	677.9	687.5	686.6	684.7	678.3	660.2	645.8	632.0	581.1
30°	689.0	694.7	709.7	712.0	708.6	708.2	699.2	681.1	667.6	657.0	599.3
32.5°	720.4	725.5	737.5	738.5	732.5	733.2	724.7	708.2	700.5	696.7	630.0
35°	753.7	756.3	766.7	765.6	761.6	761.0	757.7	741.9	744.3	751.1	673.4
37.5°	781.5	786.8	792.6	793.6	793.4	795.3	797.5	790.0	804.1	825.4	730.4
40°	807.1	811.6	820.3	823.3	830.6	834.4	842.1	842.3	874.8	909.8	800.5
42.5°	824.4	832.1	848.3	853.7	871.6	882.9	894.4	906.6	953.8	998.7	883.3
45°	839.5	849.6	876.5	893.4	917.7	931.4	955.7	981.2	1049.1	1108.0	967.3
47.5°	862.2	871.2	902.1	932.0	968.6	984.4	1020.7	1058.9	1147.7	1212.2	1047.8
50°	893.8	899.3	930.7	979.4	1026.2	1046.5	1094.5	1149.6	1253.0	1315.0	1118.5
52.5°	934.2	936.5	961.5	1026.4	1088.1	1113.3	1176.8	1241.1	1345.1	1404.4	1174.6
55°	982.0	978.2	997.8	1076.2	1158.8	1191.7	1259.9	1333.8	1448.7	1476.6	1215.4
57.5°	1029.2	1023.4	1039.0	1136.8	1246.0	1285.7	1365.2	1429.4	1541.3	1544.1	1244.0
60°	1079.2	1074.9	1093.5	1207.8	1353.0	1400.0	1473.6	1528.5	1630.8	1591.1	1248.5
62.5°	1130.6	1123.6	1150.1	1287.8	1473.6	1516.2	1587.5	1633.8	1718.6	1608.6	1205.0
65°	1180.4	1177.2	1218.2	1382.7	1610.8	1659.4	1728.6	1760.0	1788.9	1582.3	1097.3
67.5°	1233.4	1239.8	1305.3	1509.5	1789.9	1850.8	1925.4	1895.9	1809.0	1457.6	924.1
70°	1314.3	1318.4	1419.6	1675.5	2020.6	2094.1	2130.2	1944.3	1712.0	1220.8	694.7
72.5°	1349.1	1367.3	1521.7	1849.9	2282.7	2327.7	2199.1	1836.5	1426.2	829.3	365.0
73°	1341.4	1363.2	1526.4	1876.4	2303.2	2350.4	2184.4	1781.0	1325.8	714.2	312.9
75°	1245.3	1272.2	1465.3	1854.2	2263.4	2235.2	1948.6	1517.9	895.9	324.8	142.5
77.5°	982.6	990.3	1161.0	1497.3	1782.3	1730.1	1458.3	948.7	365.9	120.7	80.9
80°	492.9	521.3	654.4	857.7	1191.9	1174.8	920.5	448.7	152.5	70.9	53.6
82.5°	237.1	257.3	318.7	418.2	658.6	642.9	455.8	245.2	96.8	41.4	31.6
85°	152.7	167.7	202.9	199.5	270.8	258.6	204.8	185.6	57.4	21.6	22.0
87.5°	100.8	110.4	132.4	105.9	98.5	89.1	90.5	104.6	11.3	8.3	3.0
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°	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
2.5°	578.6	576.2	568.1	560.2	552.7	545.5	540.8	534.6	530.5	531.6	533.3
5°	564.2	558.7	544.4	530.5	517.3	501.7	489.1	479.0	471.3	468.4	467.9
7.5°	548.9	539.7	519.2	495.3	472.9	453.6	431.2	420.1	407.1	402.6	401.1
10°	539.7	527.3	498.5	465.2	431.6	399.4	375.2	355.4	337.6	334.2	332.5
12.5°	537.1	520.7	482.0	439.1	394.3	354.9	318.9	293.0	275.7	271.7	265.9
15°	535.6	515.3	466.6	412.8	356.0	307.8	270.0	239.8	224.0	213.4	213.6
17.5°	534.3	509.1	449.3	384.0	322.9	267.4	225.7	198.4	183.9	178.3	177.7
20°	532.4	501.7	429.3	353.7	285.1	230.5	192.8	172.4	162.7	158.0	157.8
22.5°	531.6	494.6	409.8	322.9	251.6	202.2	170.9	156.6	150.4	147.2	147.2
25°	533.5	489.5	389.3	293.5	221.9	177.9	155.9	146.1	142.5	140.8	140.3
27.5°	539.3	487.2	369.0	264.2	194.6	161.3	145.7	139.0	136.3	135.0	135.2
30°	550.4	487.1	349.0	235.3	174.3	148.7	137.7	133.0	130.9	130.1	129.9
32.5°	568.3	491.2	329.5	211.4	157.2	138.2	130.1	126.7	125.8	125.2	125.1
35°	598.6	502.8	310.1	189.6	144.0	128.8	123.0	121.3	120.0	120.5	120.7
37.5°	639.4	523.0	291.7	172.4	134.1	121.9	117.0	115.5	114.7	115.3	115.8
40°	694.1	551.9	276.2	158.7	126.9	116.0	111.7	110.4	109.6	110.6	110.8
42.5°	754.5	585.4	263.5	148.0	121.1	111.1	107.0	105.5	104.9	105.5	105.7
45°	816.5	624.3	256.9	140.3	116.2	107.6	103.2	101.5	100.2	99.9	100.4
47.5°	877.6	658.2	256.7	135.6	112.3	104.4	99.7	97.8	96.1	95.2	95.0
50°	927.5	685.1	261.2	133.5	108.9	100.8	96.1	94.2	92.0	90.1	90.5
52.5°	965.1	702.6	263.3	132.6	107.0	97.0	92.3	90.6	88.0	85.6	85.6
55°	989.3	706.7	258.2	131.6	105.5	93.1	88.0	86.5	83.9	81.4	81.4
57.5°	997.6	693.9	240.0	129.4	104.0	89.7	83.7	82.4	80.3	77.9	77.5
60°	978.4	650.7	208.0	122.6	101.0	86.1	79.0	78.4	77.7	75.6	75.4
62.5°	904.5	558.9	173.2	113.8	95.9	82.4	74.7	75.6	76.2	75.0	74.8
65°	781.5	453.8	148.0	101.5	89.1	77.1	70.0	72.4	73.9	73.9	73.5
67.5°	633.9	348.5	124.7	91.0	80.7	70.0	64.7	66.6	67.7	67.3	68.3
70°	450.6	236.0	101.5	79.0	70.0	61.9	57.9	57.9	57.2	56.8	56.8
72.5°	218.5	134.8	82.4	66.0	59.6	52.8	49.6	48.3	46.8	46.6	45.7
73°	182.6	120.9	78.6	63.6	57.2	51.5	48.0	45.9	44.9	44.2	44.0
75°	111.1	91.8	65.6	53.6	48.7	44.4	41.2	39.3	38.4	37.8	37.6
77.5°	73.2	68.5	51.0	41.0	37.2	34.6	33.3	31.4	30.8	30.1	30.1
80°	54.5	52.3	36.5	29.0	26.7	24.4	24.1	23.7	22.2	21.2	20.9
82.5°	35.2	37.2	24.8	19.4	16.9	15.0	15.2	15.8	14.3	13.0	12.6
85°	25.0	26.9	15.0	8.8	7.1	6.2	7.0	6.2	6.4	5.1	4.1
87.5°	4.1	7.1	2.6	1.1	0.6	0.4	0.0	0.0	0.0	0.0	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)