

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: P450490

Luminaire Tested: **GALN-SA1B-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4736 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G2

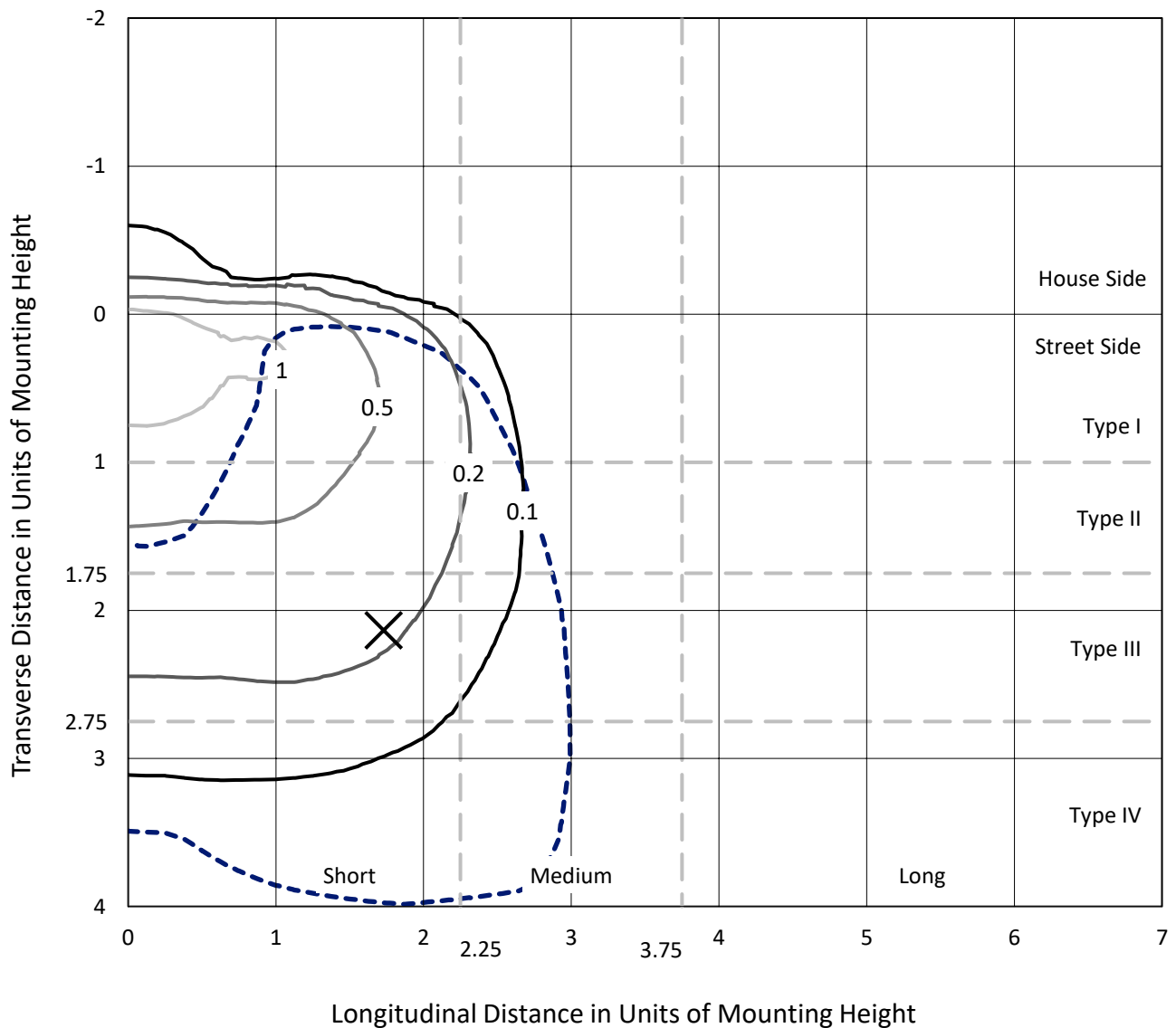
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

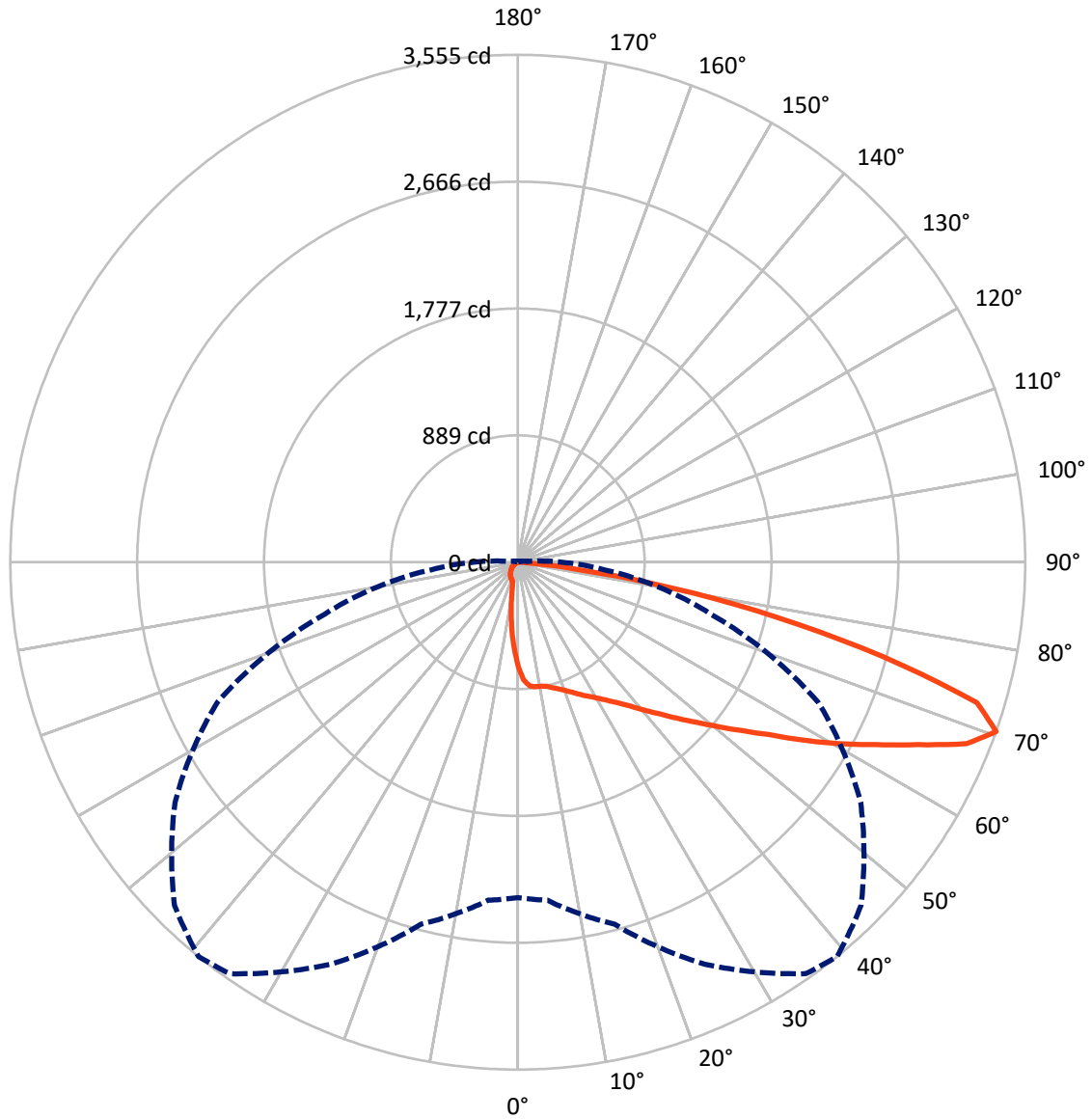
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	308.8	0.0	308.8
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	4427.2	0.0	4427.2
	% Fixture	93.5	0.0	93.5
Total	Lumens	4736.0	0.0	4736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	1.3
10°-20°	163.8	3.5
20°-30°	274.4	5.8
30°-40°	425.6	9.0
40°-50°	674.4	14.2
50°-60°	988.6	20.9
60°-70°	1267.1	26.8
70°-80°	796.2	16.8
80°-90°	82.9	1.8
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°	4736.0	100.0
0°-180°	4736.0	100.0

Coefficient of Utilization



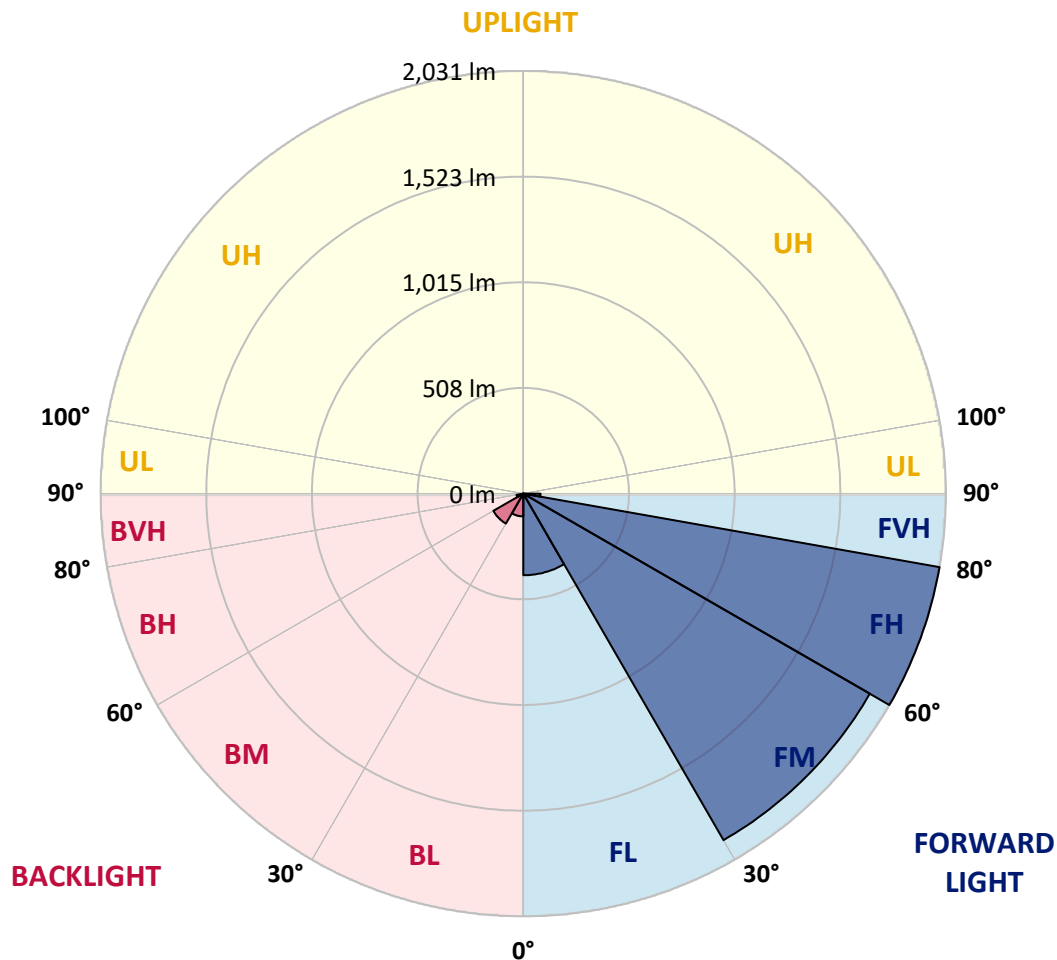
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	391.9	8.3			
FM (30°-60°)	1922.3	40.6			
FH (60°-80°)	2030.6	42.9			G2/5000
FVH (80°-90°)	82.3	1.7			G1/100
BL (0°-30°)	109.3	2.3	B0/110		
BM (30°-60°)	166.2	3.5	B0/220		
BH (60°-80°)	32.7	0.7	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0
2.5°	853.9	851.0	847.2	842.7	830.0	827.8	820.1	803.9	784.5	768.6	746.6
5°	894.3	895.9	893.0	885.1	875.8	870.4	860.9	835.7	810.6	778.4	742.5
7.5°	903.5	906.7	903.2	895.6	886.6	880.9	873.3	851.6	822.4	785.8	736.4
10°	902.6	906.4	904.2	897.1	889.8	884.4	876.1	859.0	835.4	796.9	738.3
12.5°	901.0	906.1	905.7	902.2	896.2	892.1	887.0	871.7	849.7	813.1	748.8
15°	896.5	902.9	908.6	911.5	911.8	911.8	905.4	889.2	868.2	834.5	762.5
17.5°	898.4	905.7	920.1	928.3	934.1	933.4	926.7	909.2	886.0	856.4	776.9
20°	910.2	920.1	940.1	956.7	962.4	960.5	951.6	931.2	904.8	875.2	790.9
22.5°	939.2	948.1	973.2	992.6	996.8	991.7	978.9	951.3	927.4	895.6	807.7
25°	982.4	992.9	1016.2	1030.8	1030.8	1028.0	1010.1	977.7	952.8	923.9	829.7
27.5°	1035.0	1043.9	1066.8	1079.8	1072.2	1063.9	1046.1	1006.9	983.1	959.5	856.1
30°	1088.1	1093.8	1118.0	1123.7	1115.8	1105.3	1086.2	1047.0	1026.0	1007.9	894.3
32.5°	1138.4	1150.8	1170.8	1169.6	1158.8	1153.7	1136.2	1094.5	1082.7	1080.8	947.8
35°	1188.7	1198.2	1216.0	1220.5	1210.9	1210.0	1197.3	1166.4	1166.7	1179.1	1031.1
37.5°	1231.9	1240.5	1261.5	1271.4	1273.3	1278.1	1273.0	1252.6	1281.6	1315.6	1141.6
40°	1268.2	1280.3	1307.1	1324.2	1344.0	1361.5	1362.4	1366.9	1425.1	1483.7	1285.7
42.5°	1296.6	1313.4	1352.2	1384.1	1429.3	1451.5	1469.4	1493.9	1591.9	1679.4	1455.7
45°	1333.5	1352.9	1401.3	1451.2	1521.9	1558.5	1583.3	1648.9	1787.9	1907.3	1630.1
47.5°	1394.6	1404.8	1454.1	1527.0	1619.9	1672.1	1720.5	1819.8	1998.3	2105.2	1775.2
50°	1473.2	1479.9	1517.1	1618.3	1738.6	1807.3	1895.5	2012.3	2216.6	2269.4	1857.3
52.5°	1560.1	1562.3	1590.3	1718.9	1871.6	1958.2	2056.9	2201.0	2394.5	2386.6	1911.7
55°	1661.0	1657.8	1681.6	1828.0	2029.2	2128.1	2243.0	2394.2	2548.9	2469.6	1942.9
57.5°	1776.5	1767.9	1791.1	1972.8	2230.9	2349.3	2466.1	2561.0	2668.5	2539.3	1957.9
60°	1897.4	1880.2	1907.9	2135.5	2468.7	2581.0	2678.1	2703.5	2794.6	2594.7	1932.1
62.5°	1993.8	1994.2	2045.7	2308.6	2713.1	2811.4	2863.0	2885.9	2903.1	2582.6	1796.5
65°	2144.4	2149.5	2231.9	2548.9	2996.0	3081.3	3116.6	3042.2	2907.9	2432.4	1592.8
67.5°	2299.7	2315.9	2466.8	2879.9	3322.9	3391.6	3346.1	3072.4	2778.0	2089.6	1207.8
70°	2350.3	2377.0	2625.6	3107.7	3518.9	3554.5	3400.5	2931.4	2322.3	1397.1	607.9
72.5°	2153.6	2196.9	2534.2	3024.7	3393.8	3363.0	3042.5	2458.5	1476.4	530.5	185.5
75°	1518.7	1537.8	2106.2	2509.1	2729.6	2642.1	2314.3	1584.9	607.2	148.9	63.7
77.5°	784.2	774.9	1252.6	1664.8	1946.7	1856.0	1515.5	820.5	230.1	62.1	39.5
80°	405.5	412.1	542.0	872.3	1188.3	1093.5	808.0	380.3	122.5	34.4	30.2
82.5°	227.2	213.2	311.6	380.9	555.7	435.7	310.0	269.2	53.5	20.7	28.6
85°	41.4	43.3	170.9	205.9	192.9	122.5	99.9	179.8	15.6	11.5	20.0
87.5°	0.6	0.6	33.1	59.2	37.6	17.2	31.5	25.8	3.2	4.5	3.5
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°	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0
2.5°	735.5	723.4	700.8	678.5	650.2	627.0	611.4	595.1	578.6	579.9	583.7
5°	722.7	701.7	657.2	610.1	564.9	524.2	484.1	448.1	433.5	420.1	420.7
7.5°	710.0	680.4	615.2	541.3	472.9	403.5	353.3	311.9	289.9	273.4	268.6
10°	704.3	665.1	576.7	475.1	378.1	302.3	237.7	204.0	177.9	169.6	171.9
12.5°	706.8	657.5	542.0	415.3	299.8	210.7	165.5	148.3	142.6	141.6	141.0
15°	711.6	652.1	507.9	349.1	220.2	156.6	139.1	135.9	135.3	134.6	134.9
17.5°	718.0	647.3	471.6	287.1	169.0	136.8	131.8	130.2	129.8	129.8	129.8
20°	724.3	641.9	431.2	231.7	141.0	129.2	126.0	125.1	124.8	124.8	124.4
22.5°	731.7	637.1	390.2	182.0	129.8	123.8	120.9	120.3	120.0	119.7	119.7
25°	742.2	631.1	346.6	148.9	122.8	118.7	115.8	115.2	114.9	113.6	113.9
27.5°	756.2	626.6	301.7	128.6	116.5	112.3	110.4	109.5	108.8	107.9	108.2
30°	775.3	622.8	254.0	117.4	109.2	105.7	103.7	103.1	102.5	101.5	101.5
32.5°	808.4	624.4	203.7	108.5	102.5	98.3	96.4	95.8	95.2	94.2	94.2
35°	858.0	633.6	162.9	100.9	94.5	90.4	88.5	88.5	87.5	86.2	85.9
37.5°	939.2	657.2	130.8	93.6	86.9	83.1	80.8	80.2	79.2	77.3	77.0
40°	1035.0	693.8	110.1	86.2	79.9	76.1	74.2	72.2	69.7	67.8	67.5
42.5°	1155.3	731.3	95.5	78.9	73.2	69.7	67.5	64.3	60.5	57.9	57.6
45°	1280.6	765.7	85.6	72.2	66.8	64.0	61.4	56.3	51.6	48.4	48.1
47.5°	1374.2	772.1	77.7	65.9	61.4	58.6	55.1	48.7	42.3	39.5	38.5
50°	1418.4	741.2	69.4	59.5	56.0	52.8	48.4	41.1	34.1	30.6	29.9
52.5°	1434.0	687.7	62.7	53.8	50.6	46.8	41.4	33.1	26.7	23.2	22.9
55°	1427.7	620.3	56.6	48.4	44.2	39.8	34.4	26.4	19.7	16.9	16.2
57.5°	1394.3	534.3	50.6	43.0	37.9	33.4	27.4	19.7	13.4	10.8	10.5
60°	1304.2	417.2	44.6	36.9	32.1	27.4	21.6	14.0	8.3	6.0	6.0
62.5°	1152.1	309.7	38.8	30.9	27.1	22.0	15.3	8.9	4.5	3.2	2.9
65°	962.7	228.5	32.5	26.1	22.6	17.2	10.8	5.4	2.2	1.0	0.6
67.5°	671.8	141.0	27.1	21.3	18.5	12.4	6.7	2.2	1.0	0.0	0.0
70°	305.2	67.2	20.7	16.2	14.0	8.9	3.5	1.3	0.6	0.0	0.0
72.5°	94.8	35.3	14.6	11.8	9.5	5.7	1.9	1.0	0.6	0.0	0.0
75°	43.9	22.6	9.2	6.4	5.4	2.9	1.3	0.6	0.3	0.0	0.0
77.5°	32.8	17.5	5.4	3.5	2.9	1.9	1.0	0.6	0.3	0.0	0.0
80°	28.6	8.9	3.2	2.2	1.6	1.3	0.6	0.3	0.0	0.0	0.0
82.5°	25.8	4.5	1.9	1.3	1.0	0.6	0.3	0.3	0.0	0.0	0.0
85°	14.0	2.5	1.3	1.0	0.6	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	2.5	1.3	1.0	0.6	0.6	0.3	0.3	0.3	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)