

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: P450433

Luminaire Tested: **GALN-SA1B-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450433
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-SA1B-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA 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: 4713 lumens
Efficiency: N/A
Efficacy: 107.1 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

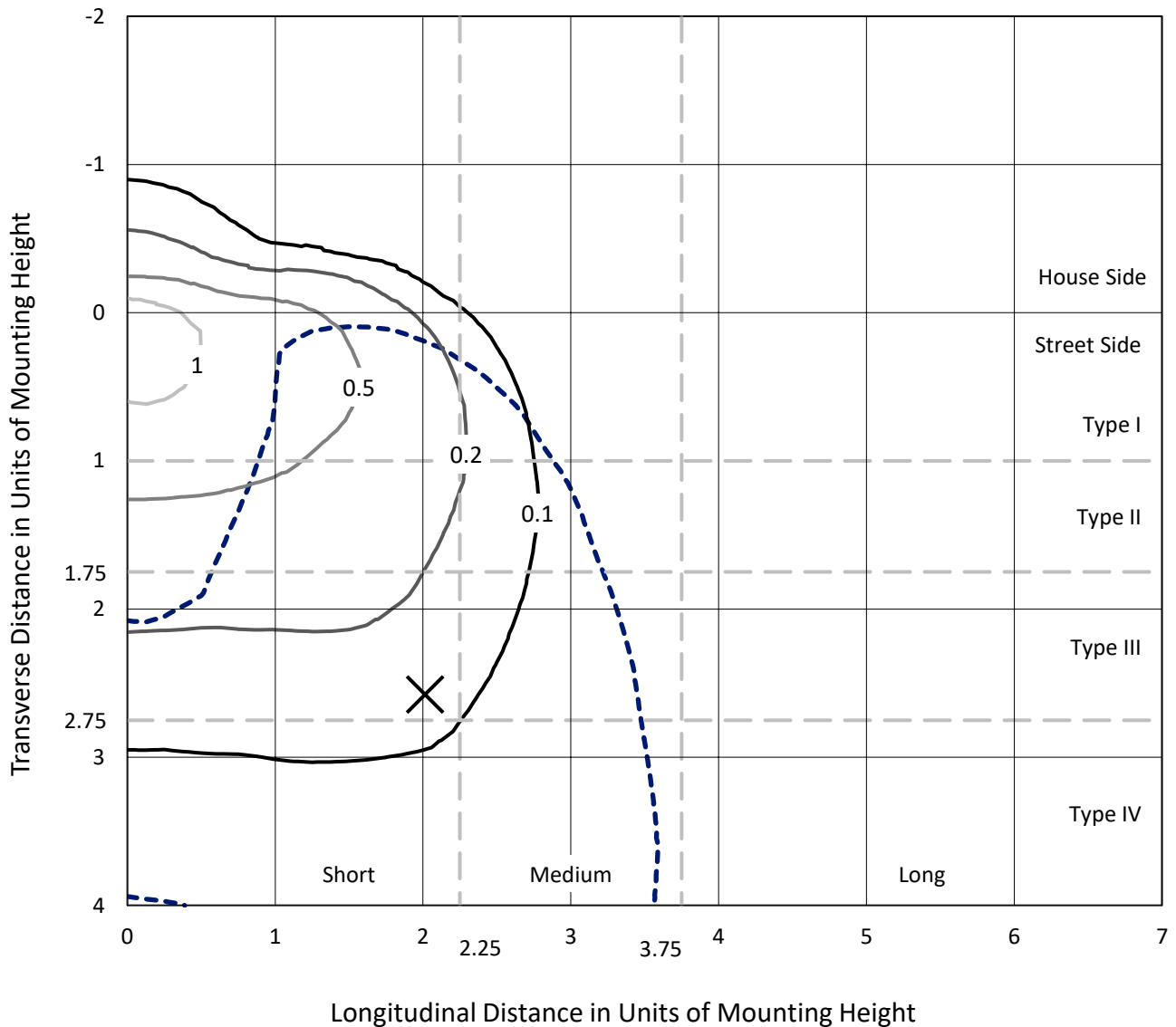
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

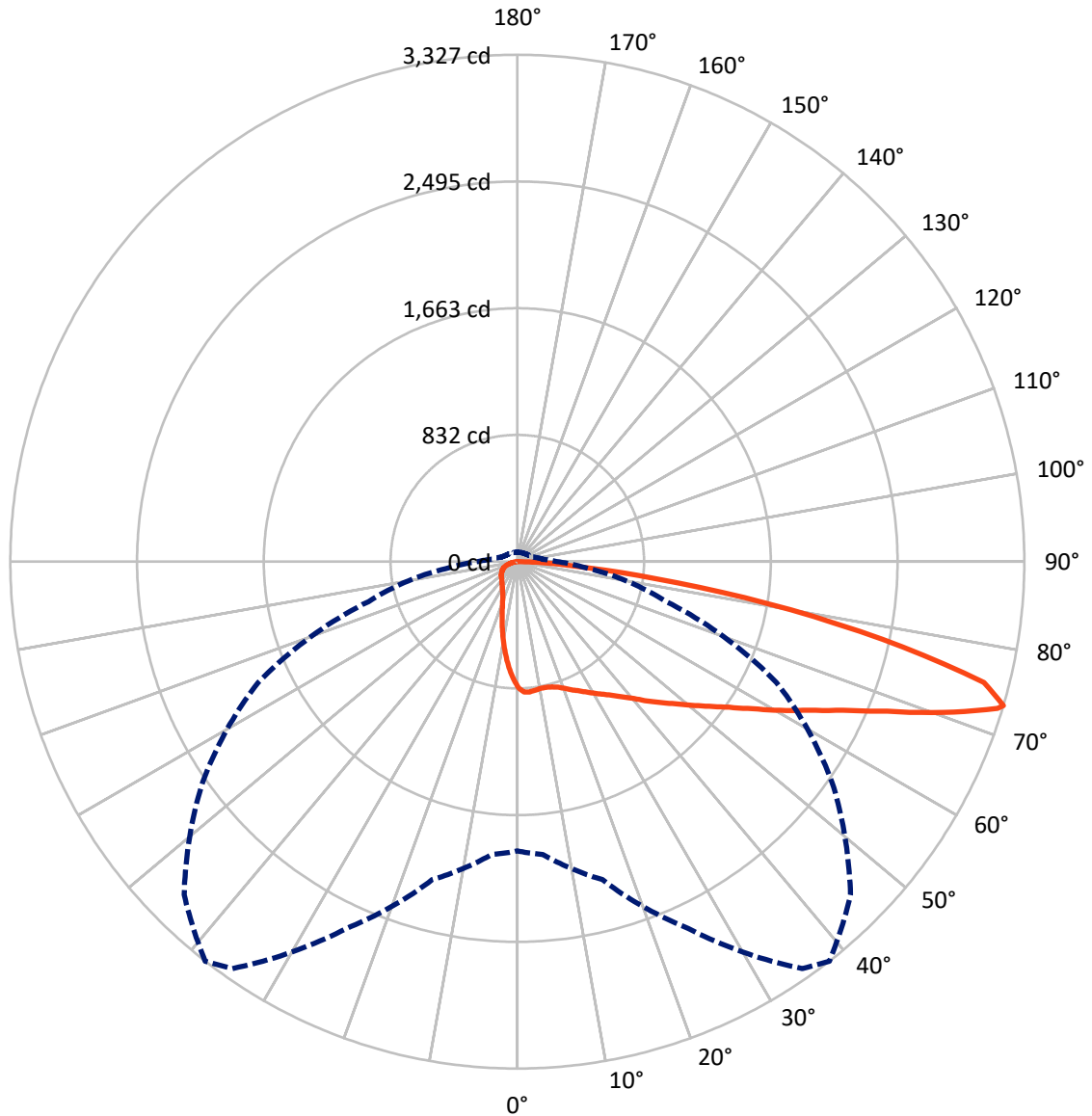
× Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	633.6	0.0	633.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4079.4	0.0	4079.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	4713.0	0.0	4713.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	1.5
10°-20°	185.3	3.9
20°-30°	288.6	6.1
30°-40°	423.3	9.0
40°-50°	627.9	13.3
50°-60°	889.7	18.9
60°-70°	1128.6	23.9
70°-80°	939.4	19.9
80°-90°	157.8	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°	4713.0	100.0
0°-180°	4713.0	100.0

Coefficient of Utilization



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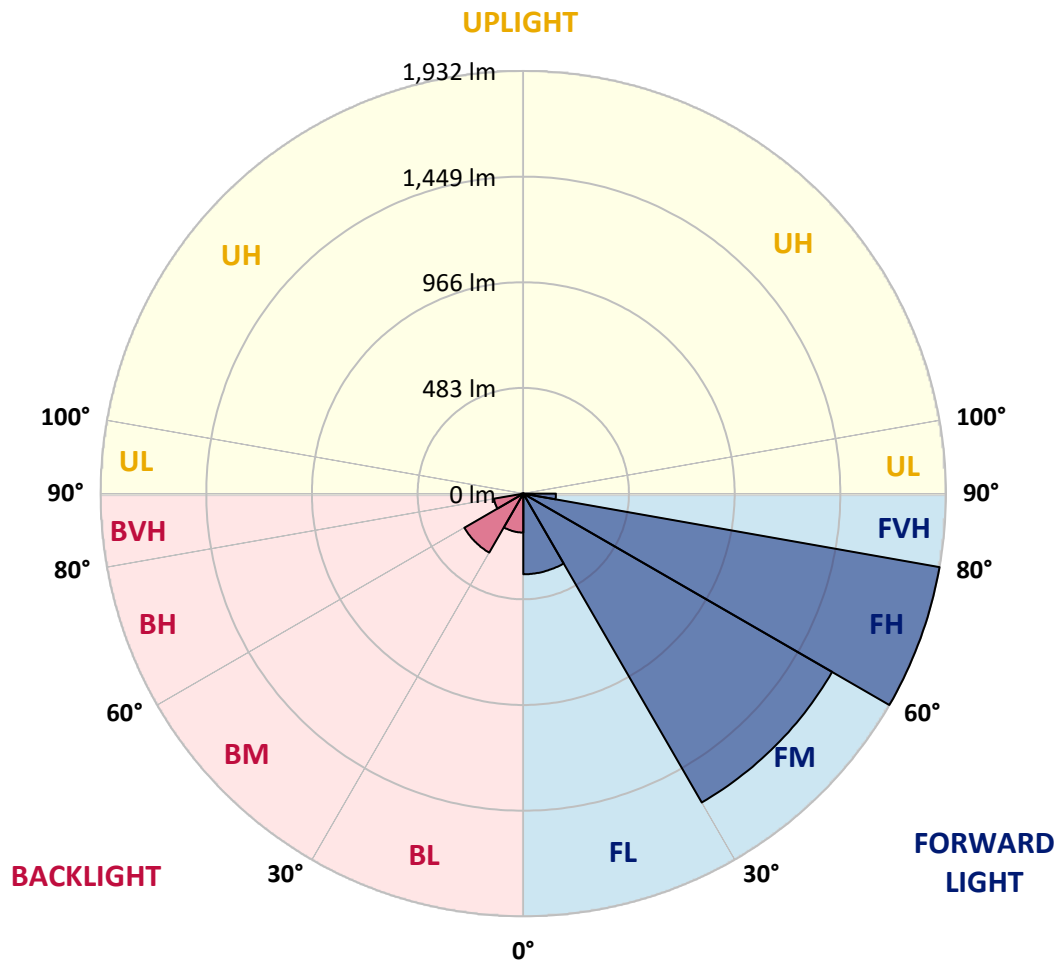
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	368.4	7.8			
FM (30°-60°)	1629.9	34.6			
FH (60°-80°)	1931.8	41.0			G2/5000
FVH (80°-90°)	149.3	3.2			G2/225
BL (0°-30°)	177.8	3.8	B1/500		
BM (30°-60°)	311.0	6.6	B1/1000		
BH (60°-80°)	136.2	2.9	B1/500		G1/500
BVH (80°-90°)	8.6	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°	828.0	828.0	828.0	828.0	828.0	828.0	828.0	828.0	828.0	828.0	828.0
2.5°	861.3	865.5	863.4	860.5	858.6	856.7	854.1	846.4	840.2	833.6	823.2
5°	867.7	870.3	868.4	864.7	860.5	858.6	853.5	843.4	833.6	822.4	807.0
7.5°	863.9	865.0	862.9	858.3	854.6	851.1	845.3	834.1	822.1	808.6	788.3
10°	850.6	854.6	854.6	850.9	847.2	845.3	839.4	828.8	817.9	802.4	778.5
12.5°	839.7	844.0	847.4	846.4	846.1	846.1	841.6	833.6	820.8	806.2	777.7
15°	832.3	837.3	844.8	849.0	851.7	852.5	850.6	843.7	830.7	813.6	780.9
17.5°	830.7	836.8	850.4	859.7	866.6	866.3	865.8	856.2	841.8	824.3	784.9
20°	837.8	845.8	864.7	879.4	889.5	887.6	884.7	872.2	855.4	835.7	788.6
22.5°	859.4	867.7	888.4	904.4	914.2	914.2	905.4	888.9	871.1	849.0	793.7
25°	890.3	899.3	921.4	937.6	942.2	938.7	929.9	910.0	889.5	868.2	804.3
27.5°	928.1	939.0	959.5	973.0	971.7	969.1	960.0	934.5	914.0	894.5	822.4
30°	975.2	983.2	1004.5	1007.6	1002.9	1002.3	989.5	964.0	944.8	929.9	848.2
32.5°	1019.6	1026.8	1043.8	1045.2	1036.7	1037.7	1025.7	1002.3	991.4	986.1	891.6
35°	1066.7	1070.5	1085.1	1083.5	1077.9	1077.1	1072.3	1050.0	1053.4	1063.0	953.1
37.5°	1106.1	1113.6	1121.8	1123.2	1122.9	1125.6	1128.7	1118.1	1138.1	1168.1	1033.7
40°	1142.3	1148.7	1160.9	1165.2	1175.6	1180.9	1191.8	1192.1	1238.1	1287.6	1133.0
42.5°	1166.8	1177.7	1200.6	1208.3	1233.6	1249.6	1265.8	1283.1	1349.9	1413.5	1250.1
45°	1188.1	1202.5	1240.5	1264.5	1298.8	1318.2	1352.6	1388.8	1484.9	1568.2	1369.1
47.5°	1220.3	1233.1	1276.7	1319.0	1370.9	1393.3	1444.7	1498.7	1624.3	1715.6	1483.0
50°	1265.0	1272.7	1317.2	1386.1	1452.4	1481.1	1549.0	1627.0	1773.4	1861.2	1583.1
52.5°	1322.2	1325.4	1360.8	1452.6	1539.9	1575.6	1665.6	1756.6	1903.8	1987.6	1662.4
55°	1389.8	1384.5	1412.2	1523.2	1640.0	1686.6	1783.2	1887.8	2050.4	2089.8	1720.1
57.5°	1456.6	1448.4	1470.5	1608.9	1763.5	1819.7	1932.3	2023.0	2181.4	2185.4	1760.6
60°	1527.4	1521.3	1547.7	1709.5	1915.0	1981.5	2085.6	2163.3	2308.1	2251.9	1767.0
62.5°	1600.1	1590.2	1627.8	1822.6	2085.6	2146.0	2246.8	2312.3	2432.3	2276.7	1705.5
65°	1670.6	1666.1	1724.1	1957.0	2279.8	2348.5	2446.5	2490.9	2531.9	2239.4	1553.0
67.5°	1745.7	1754.7	1847.4	2136.4	2533.2	2619.5	2725.1	2683.3	2560.4	2062.9	1307.9
70°	1860.1	1866.0	2009.2	2371.4	2859.8	2963.9	3015.0	2751.7	2423.0	1727.8	983.2
72.5°	1909.4	1935.2	2153.7	2618.1	3230.8	3294.4	3112.4	2599.2	2018.5	1173.7	516.6
73°	1898.5	1929.3	2160.3	2655.6	3259.8	3326.6	3091.6	2520.7	1876.4	1010.8	442.9
75°	1762.4	1800.5	2073.8	2624.2	3203.4	3163.5	2757.9	2148.4	1267.9	459.6	201.7
77.5°	1390.6	1401.5	1643.2	2119.1	2522.6	2448.6	2064.0	1342.7	517.9	170.9	114.4
80°	697.6	737.8	926.2	1213.9	1686.9	1662.6	1302.8	635.0	215.8	100.3	75.9
82.5°	335.6	364.1	451.1	591.9	932.1	910.0	645.1	347.1	137.1	58.6	44.7
85°	216.1	237.4	287.2	282.4	383.3	366.0	289.8	262.7	81.2	30.6	31.1
87.5°	142.7	156.2	187.4	149.8	139.5	126.2	128.0	148.0	16.0	11.7	4.3
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°	828.0	828.0	828.0	828.0	828.0	828.0	828.0	828.0	828.0	828.0	828.0
2.5°	818.9	815.5	804.0	792.9	782.2	772.1	765.4	756.7	750.8	752.4	754.8
5°	798.5	790.7	770.5	750.8	732.2	710.1	692.3	677.9	667.0	663.0	662.2
7.5°	776.9	763.9	734.8	701.0	669.4	642.0	610.3	594.6	576.2	569.8	567.7
10°	763.9	746.3	705.6	658.5	610.8	565.3	531.0	503.0	477.7	472.9	470.6
12.5°	760.1	737.0	682.1	621.5	558.1	502.2	451.4	414.7	390.2	384.6	376.3
15°	758.0	729.3	660.3	584.2	503.8	435.7	382.2	339.3	317.0	302.1	302.3
17.5°	756.1	720.5	635.8	543.5	457.0	378.5	319.4	280.8	260.3	252.3	251.5
20°	753.5	710.1	607.6	500.6	403.5	326.3	272.8	244.1	230.2	223.6	223.3
22.5°	752.4	700.0	579.9	457.0	356.1	286.1	241.9	221.7	212.9	208.4	208.4
25°	755.1	692.8	550.9	415.5	314.1	251.8	220.6	206.8	201.7	199.3	198.5
27.5°	763.3	689.6	522.2	373.9	275.5	228.4	206.3	196.7	193.0	191.1	191.4
30°	779.0	689.3	494.0	333.0	246.7	210.5	194.8	188.2	185.2	184.2	183.9
32.5°	804.3	695.2	466.3	299.2	222.5	195.6	184.2	179.4	178.1	177.3	177.0
35°	847.2	711.7	438.9	268.3	203.9	182.3	174.1	171.7	169.8	170.6	170.9
37.5°	904.9	740.2	412.8	244.1	189.8	172.5	165.5	163.4	162.4	163.2	163.9
40°	982.4	781.2	391.0	224.6	179.7	164.2	158.1	156.2	155.2	156.5	156.8
42.5°	1067.8	828.5	372.9	209.5	171.4	157.3	151.4	149.3	148.5	149.3	149.6
45°	1155.6	883.6	363.6	198.5	164.5	152.2	146.1	143.7	141.9	141.3	142.1
47.5°	1242.1	931.5	363.3	191.9	158.9	147.7	141.1	138.4	136.0	134.7	134.4
50°	1312.7	969.6	369.7	189.0	154.1	142.7	136.0	133.3	130.1	127.5	128.0
52.5°	1365.9	994.3	372.6	187.6	151.4	137.3	130.7	128.3	124.6	121.1	121.1
55°	1400.2	1000.2	365.4	186.3	149.3	131.7	124.6	122.4	118.7	115.2	115.2
57.5°	1411.9	982.1	339.6	183.1	147.2	127.0	118.4	116.6	113.6	110.2	109.7
60°	1384.8	920.9	294.4	173.5	142.9	121.9	111.8	111.0	109.9	107.0	106.7
62.5°	1280.2	791.0	245.1	161.0	135.7	116.6	105.7	107.0	107.8	106.2	105.9
65°	1106.1	642.2	209.5	143.7	126.2	109.1	99.0	102.5	104.6	104.6	104.1
67.5°	897.2	493.2	176.5	128.8	114.2	99.0	91.6	94.2	95.8	95.3	96.6
70°	637.7	334.0	143.7	111.8	99.0	87.6	82.0	82.0	80.9	80.4	80.4
72.5°	309.3	190.8	116.6	93.4	84.4	74.8	70.3	68.4	66.3	66.0	64.7
73°	258.4	171.1	111.3	90.0	80.9	72.9	67.9	64.9	63.6	62.5	62.3
75°	157.3	129.9	92.9	75.9	68.9	62.8	58.3	55.6	54.3	53.5	53.2
77.5°	103.5	96.9	72.1	58.0	52.7	49.0	47.1	44.4	43.6	42.6	42.6
80°	77.2	74.0	51.6	41.0	37.8	34.6	34.1	33.5	31.4	30.1	29.5
82.5°	49.8	52.7	35.1	27.4	24.0	21.3	21.6	22.4	20.2	18.4	17.8
85°	35.4	38.1	21.3	12.5	10.1	8.8	9.8	8.8	9.0	7.2	5.9
87.5°	5.9	10.1	3.7	1.6	0.8	0.5	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)