

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: P458524

Luminaire Tested: **GALN-SA1A-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458524
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-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 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: 4219 lumens
Efficiency: N/A
Efficacy: 127.8 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

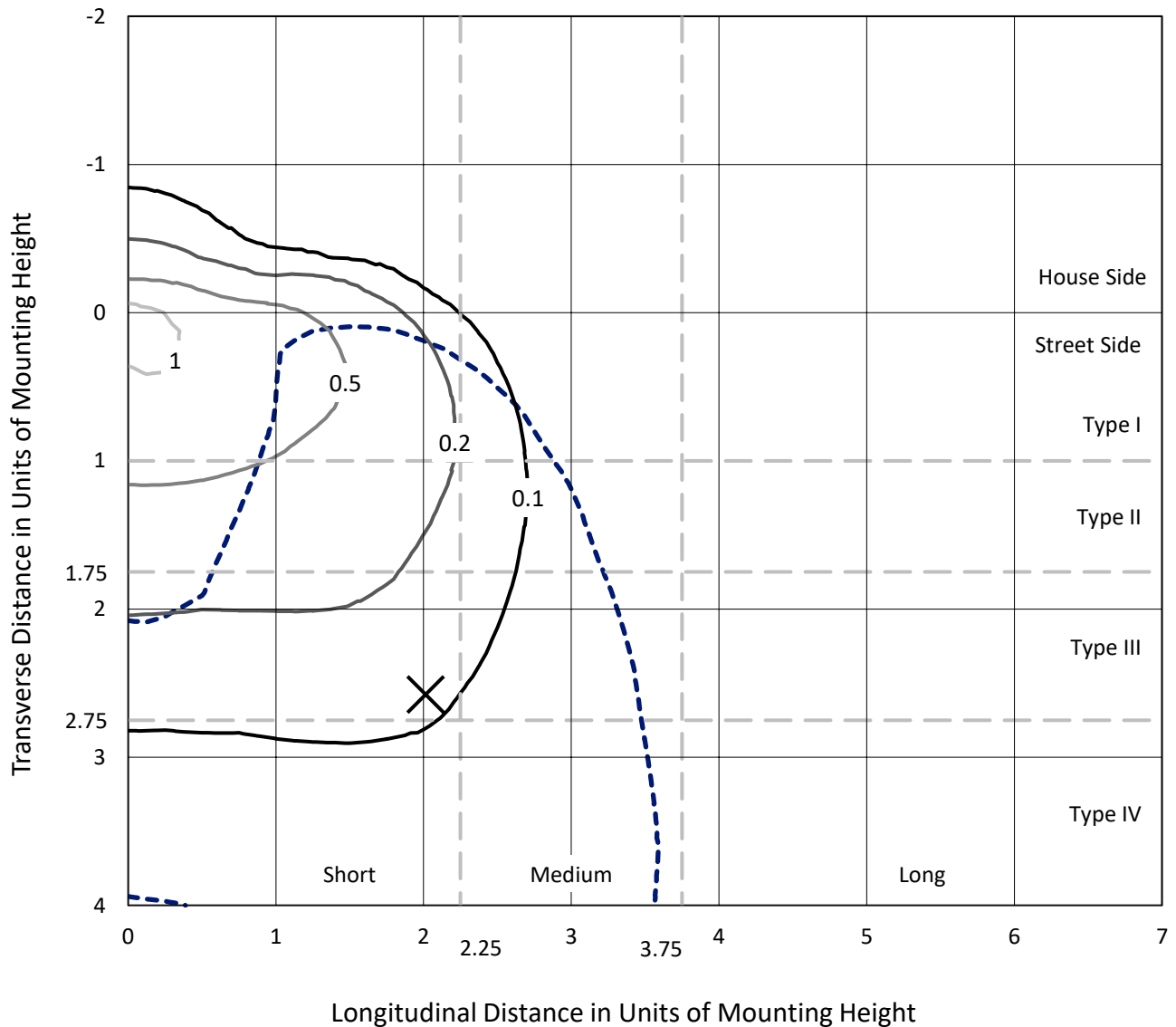
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

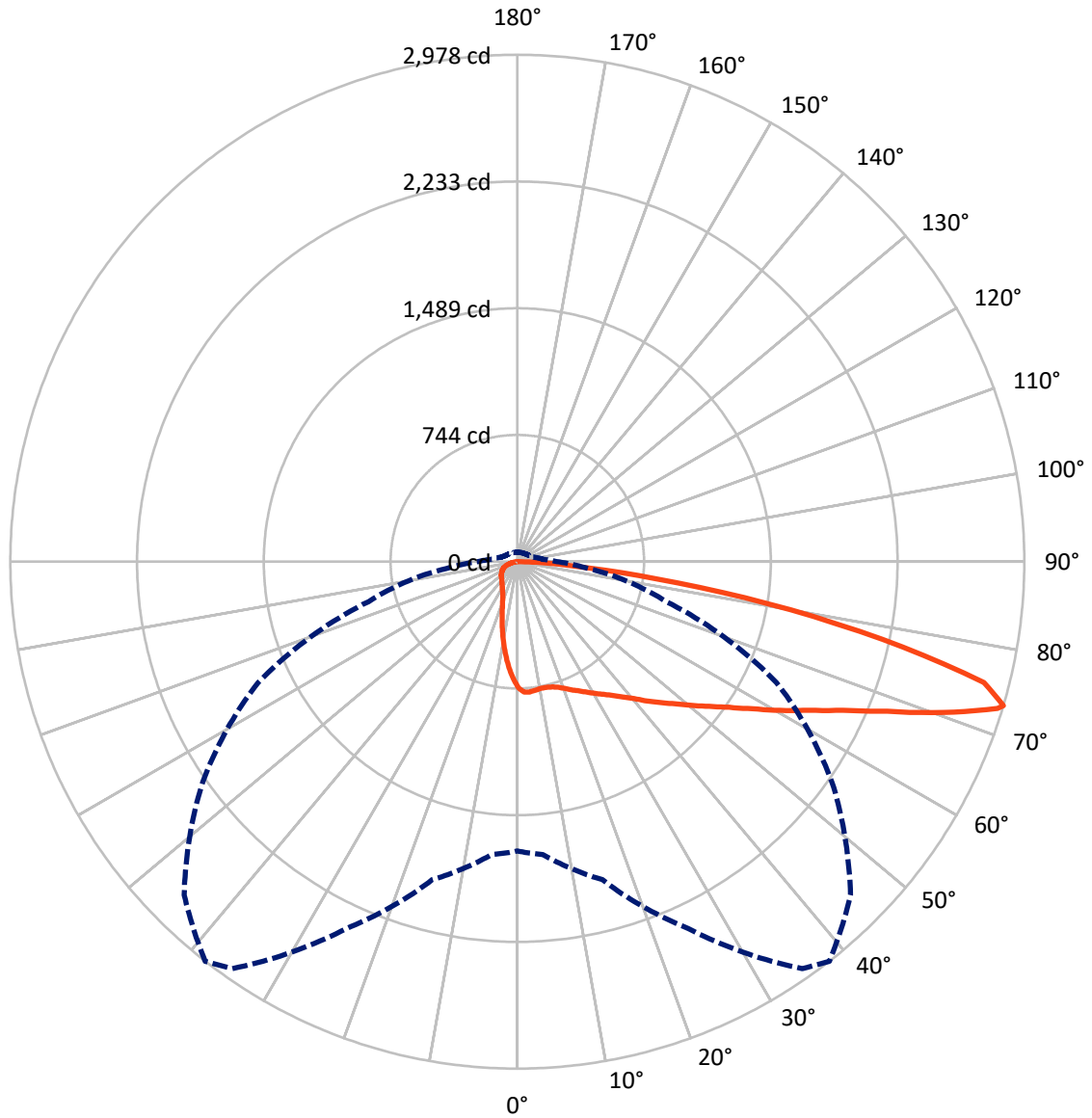
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	567.2	0.0	567.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	3651.8	0.0	3651.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	4219.0	0.0	4219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	1.5
10°-20°	165.9	3.9
20°-30°	258.4	6.1
30°-40°	378.9	9.0
40°-50°	562.1	13.3
50°-60°	796.4	18.9
60°-70°	1010.3	23.9
70°-80°	841.0	19.9
80°-90°	141.3	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°	4219.0	100.0
0°-180°	4219.0	100.0

Coefficient of Utilization



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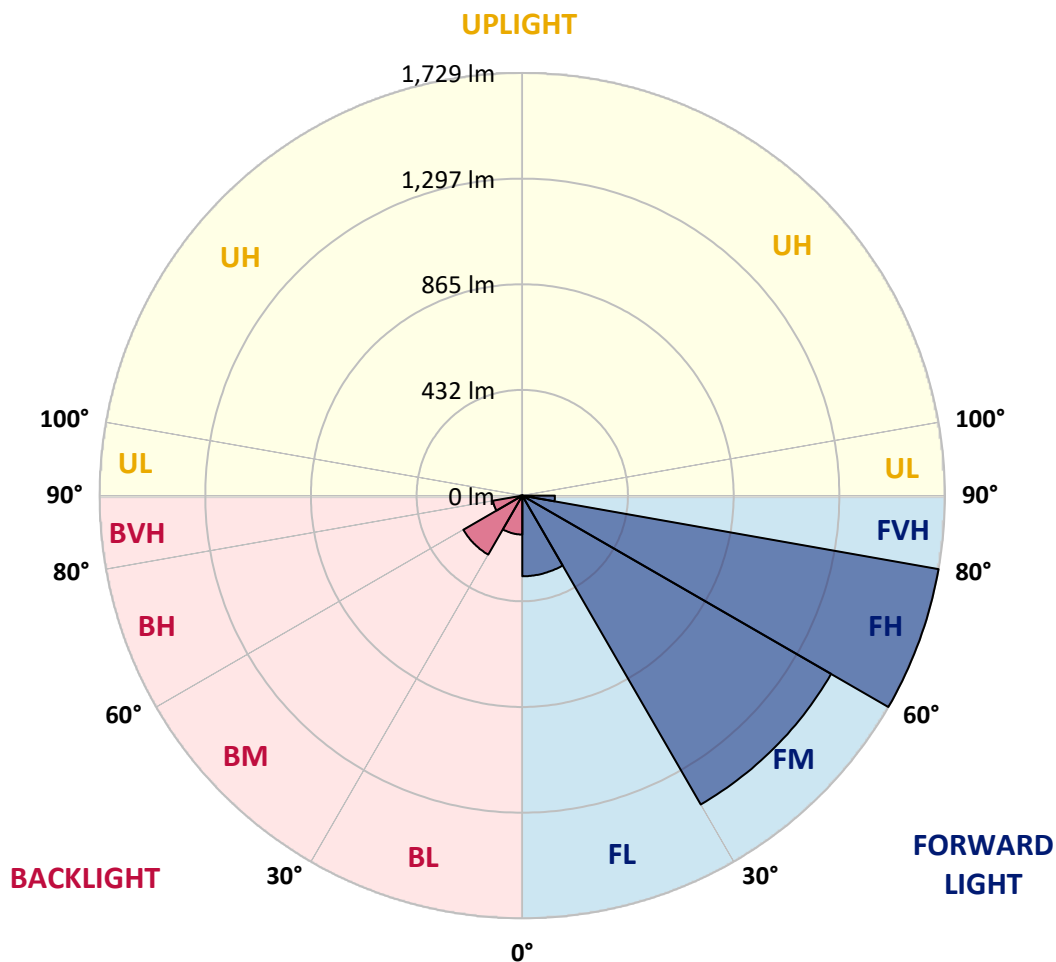
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	329.8	7.8			
FM (30°-60°)	1459.0	34.6			
FH (60°-80°)	1729.4	41.0			G1/1800
FVH (80°-90°)	133.6	3.2			G2/225
BL (0°-30°)	159.2	3.8	B1/500		
BM (30°-60°)	278.4	6.6	B1/1000		
BH (60°-80°)	121.9	2.9	B1/500		G1/500
BVH (80°-90°)	7.7	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°	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2
2.5°	771.0	774.8	772.9	770.3	768.6	766.9	764.6	757.6	752.2	746.2	736.9
5°	776.7	779.1	777.4	774.1	770.3	768.6	764.1	755.0	746.2	736.2	722.4
7.5°	773.4	774.3	772.4	768.4	765.0	761.9	756.7	746.7	736.0	723.8	705.7
10°	761.5	765.0	765.0	761.7	758.4	756.7	751.5	741.9	732.2	718.3	696.9
12.5°	751.7	755.5	758.6	757.6	757.4	757.4	753.4	746.2	734.8	721.7	696.2
15°	745.0	749.5	756.2	760.0	762.4	763.1	761.5	755.3	743.6	728.3	699.0
17.5°	743.6	749.1	761.2	769.6	775.8	775.5	775.0	766.5	753.6	737.9	702.6
20°	750.0	757.2	774.1	787.2	796.2	794.6	792.0	780.8	765.7	748.1	705.9
22.5°	769.3	776.7	795.3	809.6	818.4	818.4	810.5	795.8	779.8	760.0	710.5
25°	797.0	805.1	824.8	839.4	843.4	840.3	832.5	814.6	796.2	777.2	720.0
27.5°	830.8	840.6	858.9	871.1	869.9	867.5	859.4	836.5	818.2	800.8	736.2
30°	873.0	880.1	899.2	902.0	897.7	897.3	885.8	863.0	845.8	832.5	759.3
32.5°	912.7	919.2	934.4	935.6	928.0	929.0	918.2	897.3	887.5	882.7	798.1
35°	954.9	958.3	971.4	969.9	964.9	964.2	959.9	939.9	943.0	951.6	853.2
37.5°	990.2	996.9	1004.2	1005.4	1005.2	1007.6	1010.4	1000.9	1018.8	1045.7	925.4
40°	1022.6	1028.3	1039.3	1043.1	1052.4	1057.1	1066.9	1067.1	1108.4	1152.7	1014.2
42.5°	1044.5	1054.3	1074.8	1081.7	1104.3	1118.6	1133.1	1148.6	1208.4	1265.4	1119.1
45°	1063.6	1076.4	1110.5	1131.9	1162.7	1180.1	1210.8	1243.2	1329.2	1403.8	1225.6
47.5°	1092.4	1103.8	1142.9	1180.8	1227.2	1247.3	1293.2	1341.6	1454.1	1535.8	1327.5
50°	1132.4	1139.3	1179.1	1240.8	1300.1	1325.9	1386.6	1456.4	1587.5	1666.1	1417.1
52.5°	1183.6	1186.5	1218.2	1300.4	1378.5	1410.5	1491.0	1572.5	1704.2	1779.3	1488.1
55°	1244.2	1239.4	1264.2	1363.5	1468.1	1509.8	1596.3	1689.9	1835.5	1870.8	1539.8
57.5°	1304.0	1296.6	1316.4	1440.2	1578.7	1628.9	1729.7	1811.0	1952.7	1956.3	1576.0
60°	1367.3	1361.9	1385.4	1530.3	1714.2	1773.8	1867.0	1936.5	2066.1	2015.9	1581.8
62.5°	1432.4	1423.6	1457.2	1631.6	1867.0	1921.0	2011.3	2069.9	2177.4	2038.0	1526.7
65°	1495.5	1491.5	1543.4	1751.9	2040.9	2102.3	2190.0	2229.8	2266.5	2004.7	1390.2
67.5°	1562.7	1570.8	1653.7	1912.5	2267.7	2344.9	2439.5	2402.1	2292.0	1846.7	1170.8
70°	1665.2	1670.4	1798.6	2122.8	2560.0	2653.2	2698.9	2463.3	2169.1	1546.7	880.1
72.5°	1709.2	1732.3	1927.9	2343.7	2892.2	2949.1	2786.1	2326.8	1806.9	1050.7	462.5
73°	1699.5	1727.1	1933.9	2377.3	2918.1	2977.9	2767.6	2256.5	1679.7	904.9	396.5
75°	1577.7	1611.8	1856.5	2349.2	2867.6	2831.9	2468.8	1923.2	1135.0	411.5	180.6
77.5°	1244.9	1254.6	1471.0	1897.0	2258.2	2191.9	1847.7	1202.0	463.6	153.0	102.4
80°	624.5	660.4	829.1	1086.7	1510.1	1488.4	1166.3	568.5	193.2	89.8	67.9
82.5°	300.4	325.9	403.8	529.9	834.4	814.6	577.5	310.7	122.7	52.4	40.0
85°	193.5	212.5	257.1	252.8	343.1	327.6	259.5	235.2	72.7	27.4	27.9
87.5°	127.7	139.9	167.7	134.1	124.8	112.9	114.6	132.5	14.3	10.5	3.8
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°	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2
2.5°	733.1	730.0	719.8	709.8	700.2	691.2	685.2	677.4	672.1	673.5	675.7
5°	714.8	707.9	689.7	672.1	655.4	635.7	619.7	606.8	597.1	593.5	592.8
7.5°	695.5	683.8	657.8	627.6	599.2	574.7	546.3	532.3	515.8	510.1	508.2
10°	683.8	668.1	631.6	589.4	546.8	506.1	475.3	450.3	427.7	423.4	421.2
12.5°	680.5	659.7	610.6	556.3	499.6	449.6	404.1	371.2	349.3	344.3	336.9
15°	678.5	652.8	591.1	523.0	451.0	390.0	342.1	303.8	283.8	270.4	270.7
17.5°	676.9	645.0	569.2	486.5	409.1	338.8	285.9	251.4	233.0	225.9	225.1
20°	674.5	635.7	543.9	448.2	361.2	292.1	244.2	218.5	206.1	200.1	199.9
22.5°	673.5	626.6	519.2	409.1	318.8	256.1	216.6	198.5	190.6	186.6	186.6
25°	675.9	620.2	493.2	371.9	281.1	225.4	197.5	185.1	180.6	178.5	177.7
27.5°	683.3	617.3	467.5	334.7	246.6	204.4	184.6	176.1	172.7	171.1	171.3
30°	697.4	617.1	442.2	298.1	220.9	188.5	174.4	168.4	165.8	164.9	164.6
32.5°	720.0	622.3	417.4	267.8	199.2	175.1	164.9	160.6	159.4	158.7	158.4
35°	758.4	637.1	392.9	240.2	182.5	163.2	155.8	153.7	152.0	152.7	153.0
37.5°	810.1	662.6	369.5	218.5	169.9	154.4	148.2	146.3	145.3	146.0	146.8
40°	879.4	699.3	350.0	201.1	160.8	147.0	141.5	139.9	138.9	140.1	140.3
42.5°	955.9	741.7	333.8	187.5	153.4	140.8	135.6	133.7	132.9	133.7	133.9
45°	1034.5	791.0	325.5	177.7	147.2	136.3	130.8	128.7	127.0	126.5	127.2
47.5°	1111.9	833.9	325.2	171.8	142.2	132.2	126.3	123.9	121.7	120.6	120.3
50°	1175.1	868.0	330.9	169.2	137.9	127.7	121.7	119.4	116.5	114.1	114.6
52.5°	1222.7	890.1	333.6	168.0	135.6	122.9	117.0	114.8	111.5	108.4	108.4
55°	1253.5	895.4	327.1	166.8	133.7	117.9	111.5	109.6	106.3	103.2	103.2
57.5°	1263.9	879.2	304.0	163.9	131.8	113.6	106.0	104.4	101.7	98.6	98.2
60°	1239.6	824.4	263.5	155.3	127.9	109.1	100.1	99.4	98.4	95.8	95.5
62.5°	1146.0	708.1	219.4	144.1	121.5	104.4	94.6	95.8	96.5	95.1	94.8
65°	990.2	574.9	187.5	128.7	112.9	97.7	88.6	91.7	93.6	93.6	93.2
67.5°	803.2	441.5	158.0	115.3	102.2	88.6	82.0	84.3	85.8	85.3	86.5
70°	570.9	299.0	128.7	100.1	88.6	78.4	73.4	73.4	72.4	72.0	72.0
72.5°	276.9	170.8	104.4	83.6	75.5	66.9	62.9	61.2	59.3	59.1	57.9
73°	231.3	153.2	99.6	80.5	72.4	65.3	60.8	58.1	56.9	56.0	55.8
75°	140.8	116.3	83.2	67.9	61.7	56.2	52.2	49.8	48.6	47.9	47.7
77.5°	92.7	86.7	64.6	51.9	47.2	43.8	42.2	39.8	39.1	38.1	38.1
80°	69.1	66.2	46.2	36.7	33.8	31.0	30.5	30.0	28.1	26.9	26.4
82.5°	44.6	47.2	31.4	24.5	21.4	19.1	19.3	20.0	18.1	16.4	16.0
85°	31.7	34.1	19.1	11.2	9.1	7.9	8.8	7.9	8.1	6.4	5.2
87.5°	5.2	9.1	3.3	1.4	0.7	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)