

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: P526783

Luminaire Tested: **GALN-SA1D-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526783
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-SA1D-730-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4205 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

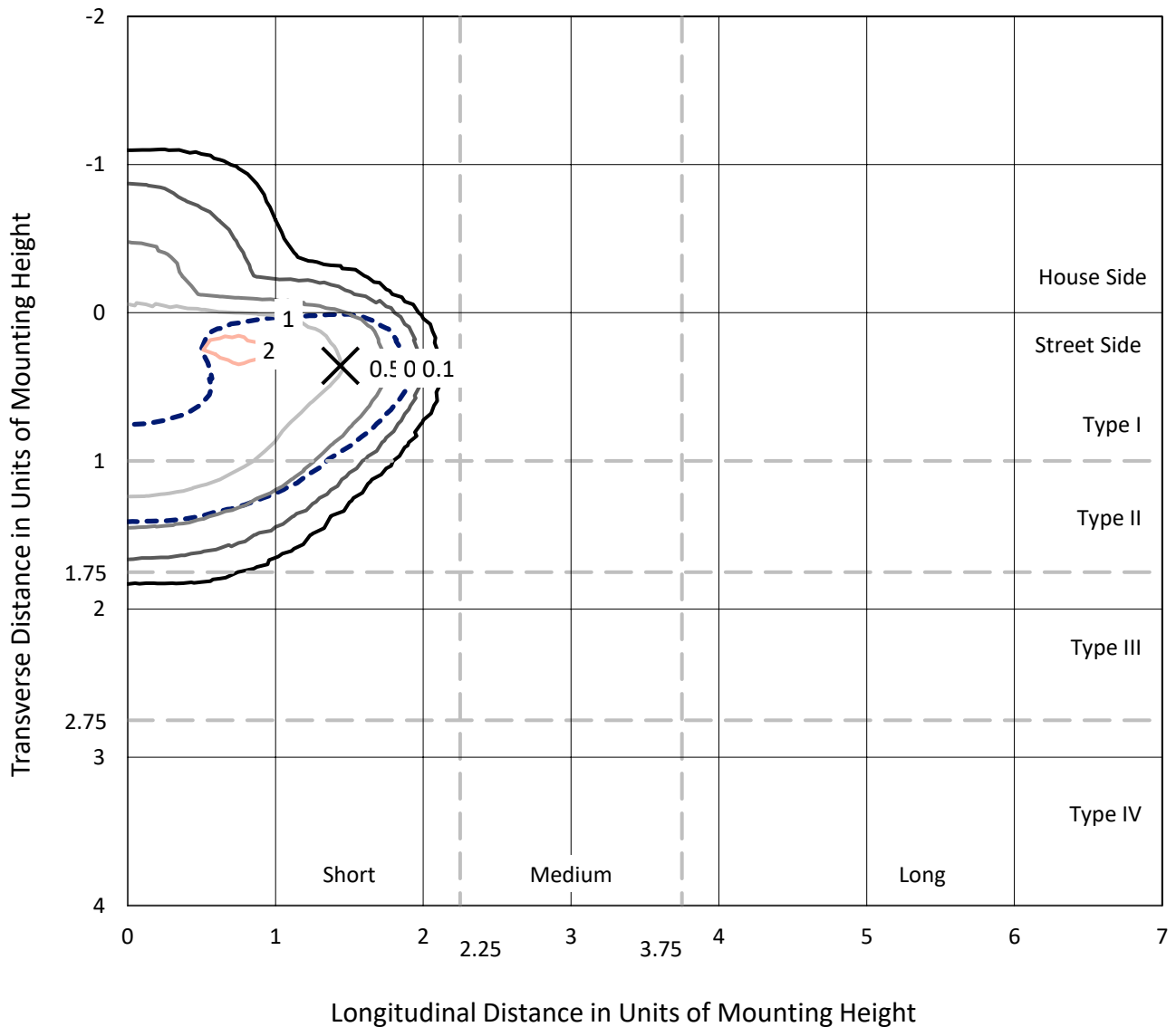
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

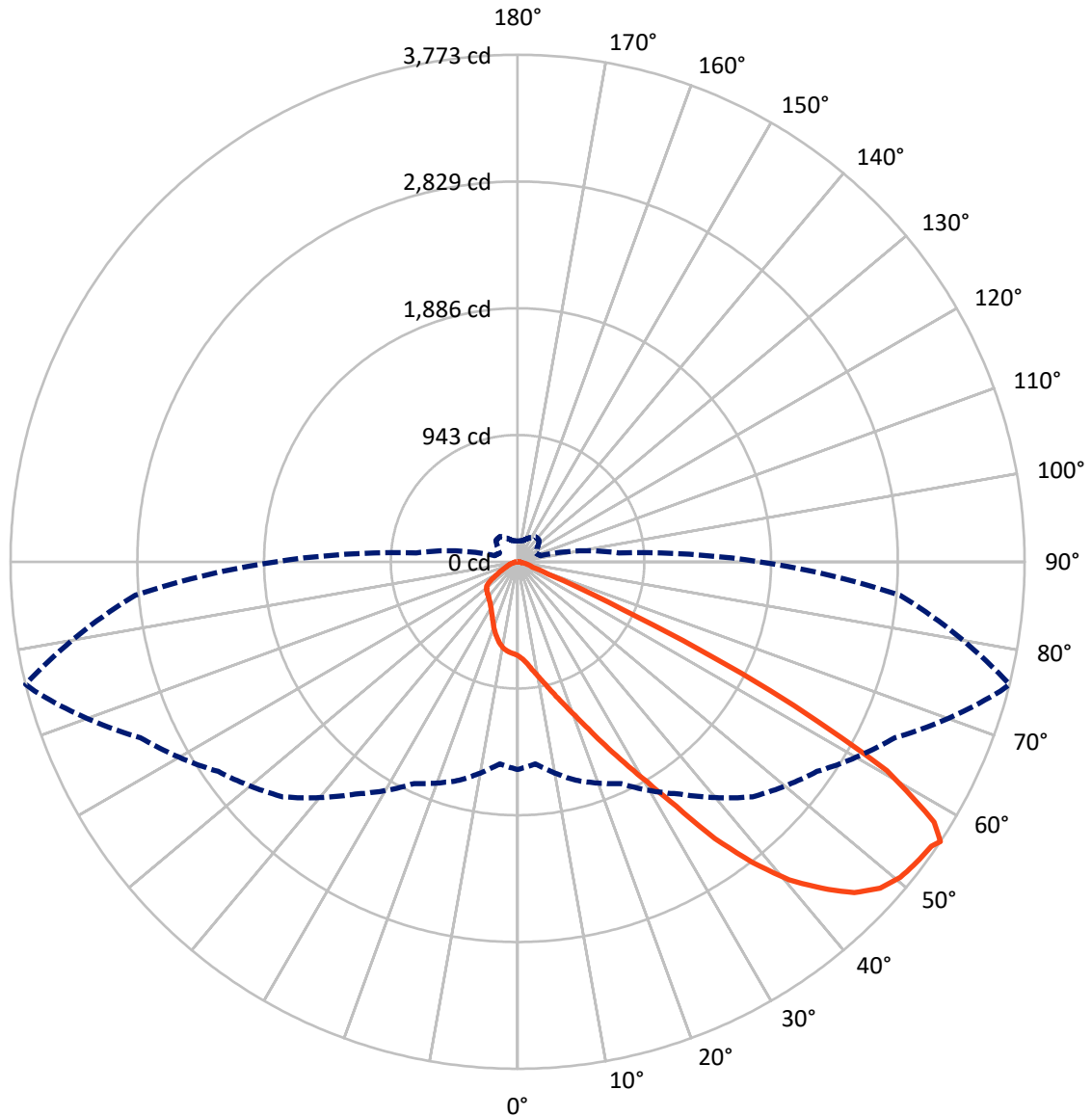
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	660.6	0.0	660.6
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	3544.4	0.0	3544.4
	% Fixture	84.3	0.0	84.3
Total	Lumens	4205.0	0.0	4205.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	1.7
10°-20°	226.5	5.4
20°-30°	410.7	9.8
30°-40°	708.3	16.8
40°-50°	1150.7	27.4
50°-60°	1212.9	28.8
60°-70°	370.6	8.8
70°-80°	47.5	1.1
80°-90°	7.2	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°	4205.0	100.0
0°-180°	4205.0	100.0

Coefficient of Utilization

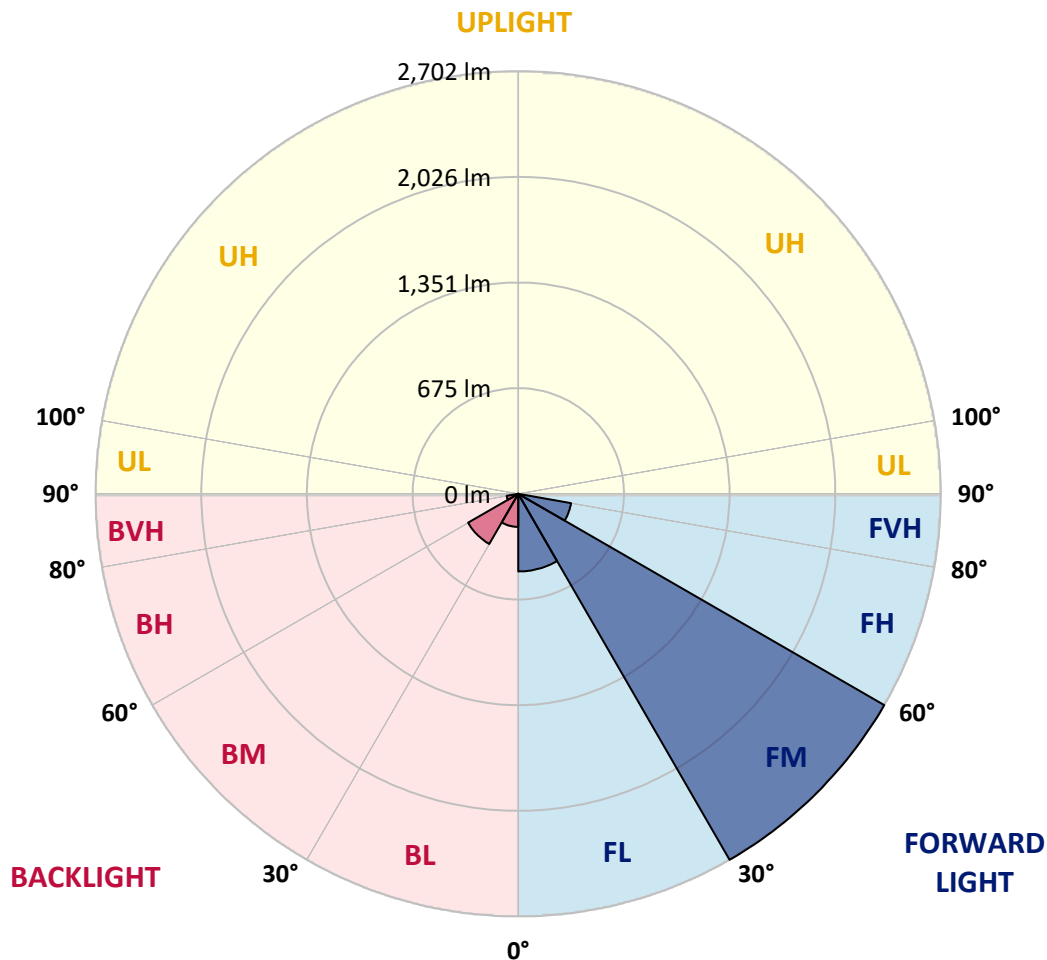


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.4	11.8			
FM (30°-60°)	2701.7	64.2			
FH (60°-80°)	342.7	8.2			G0/660
FVH (80°-90°)	3.5	0.1			G0/10
BL (0°-30°)	211.3	5.0	B1/500		
BM (30°-60°)	370.2	8.8	B1/1000		
BH (60°-80°)	75.4	1.8	B0/110		G0/110
BVH (80°-90°)	3.7	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°	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9
2.5°	806.1	787.5	788.3	786.7	784.4	775.9	750.3	746.4	729.4	724.7	709.2
5°	903.0	886.7	896.0	882.1	868.9	861.2	819.3	799.9	772.8	762.7	741.0
7.5°	963.5	955.7	952.6	953.4	941.0	921.6	903.0	860.4	823.9	816.2	770.5
10°	992.9	988.3	992.9	990.6	996.0	998.3	965.8	940.2	886.7	873.6	802.2
12.5°	999.9	1009.2	1013.1	1023.2	1036.3	1058.8	1056.5	1021.6	950.3	941.8	851.1
15°	1017.0	1024.7	1020.8	1037.1	1061.9	1099.9	1120.0	1114.6	1037.9	1022.4	907.7
17.5°	1032.5	1018.5	1031.7	1064.2	1089.0	1147.2	1196.0	1218.5	1133.2	1115.4	959.6
20°	1053.4	1049.5	1047.2	1063.5	1107.6	1185.2	1282.0	1323.1	1240.2	1221.6	1034.0
22.5°	1116.9	1117.7	1116.2	1092.1	1123.9	1211.5	1357.2	1458.8	1368.1	1352.6	1118.5
25°	1200.7	1190.6	1182.8	1163.4	1159.6	1235.5	1433.2	1624.6	1521.6	1510.7	1210.0
27.5°	1289.0	1289.0	1265.8	1247.9	1223.1	1295.2	1502.9	1785.9	1706.8	1692.1	1289.8
30°	1385.1	1390.6	1387.5	1349.5	1334.0	1360.3	1574.3	1992.0	1919.2	1900.6	1421.6
32.5°	1527.0	1515.3	1528.5	1496.7	1451.0	1474.3	1686.6	2176.5	2195.1	2168.8	1594.4
35°	1714.6	1707.6	1699.1	1647.1	1592.9	1611.5	1845.5	2403.6	2541.6	2528.4	1768.8
37.5°	1882.8	1878.9	1871.9	1836.2	1773.5	1795.9	2026.1	2640.0	2879.6	2836.1	2015.3
40°	2059.5	2080.4	2057.9	2026.1	1968.8	2018.4	2238.5	2780.3	3164.0	3111.3	2203.7
42.5°	2299.0	2282.7	2292.8	2234.7	2203.7	2257.9	2451.7	2920.6	3384.9	3322.1	2403.6
45°	2554.0	2554.8	2527.6	2509.0	2428.4	2487.3	2582.7	2998.1	3560.9	3512.0	2554.8
47.5°	2717.6	2716.8	2746.2	2775.7	2692.7	2634.6	2671.8	3071.8	3651.6	3629.1	2609.8
50°	2692.0	2699.7	2737.7	2847.8	2891.2	2812.9	2755.5	3050.1	3692.6	3690.3	2657.1
52.5°	2341.6	2367.2	2430.8	2589.7	2808.2	2905.1	2843.1	3090.4	3712.8	3716.7	2727.6
55°	1782.8	1796.7	1917.6	2110.6	2352.5	2684.2	2808.2	3122.2	3728.3	3735.3	2812.9
56°	1546.4	1509.1	1683.5	1820.7	2109.9	2472.6	2719.9	3097.4	3719.0	3772.5	2855.5
57.5°	1167.3	1142.5	1283.6	1454.9	1733.2	2116.1	2445.5	2980.3	3656.2	3655.4	2794.3
60°	710.0	685.2	793.7	894.5	1050.3	1303.0	1652.5	2373.4	3091.2	3156.3	2262.6
62.5°	422.4	437.9	544.9	606.1	656.5	682.9	855.0	1410.7	2062.6	2109.1	1403.7
65°	281.4	286.8	367.4	468.2	490.6	390.7	348.0	571.3	894.5	865.8	579.0
67.5°	173.6	186.0	246.5	351.9	389.9	285.2	165.1	213.2	246.5	246.5	167.4
70°	105.4	111.6	164.3	239.5	267.4	183.7	120.1	120.1	118.6	116.3	100.0
72.5°	50.4	54.3	83.7	123.2	125.6	96.9	93.0	101.5	99.2	98.4	82.9
75°	21.7	23.3	29.5	38.8	44.2	41.1	56.6	72.9	75.2	72.9	59.7
77.5°	7.0	7.8	10.9	14.0	14.7	17.8	24.0	30.2	34.9	32.6	29.5
80°	0.8	1.6	3.1	7.0	10.9	14.0	17.8	20.2	22.5	22.5	20.9
82.5°	0.8	0.8	3.1	6.2	10.1	13.2	17.1	19.4	22.5	23.3	21.7
85°	0.0	0.8	2.3	5.4	8.5	8.5	7.8	7.8	5.4	5.4	5.4
87.5°	0.0	0.0	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6
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°	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9
2.5°	706.1	704.6	683.7	670.5	663.5	649.5	641.0	634.8	630.2	624.7	625.5
5°	715.4	710.0	675.1	651.1	622.4	606.9	593.7	582.9	575.9	574.4	571.3
7.5°	741.8	713.1	660.4	617.0	580.6	565.1	553.4	546.5	549.6	542.6	548.0
10°	761.9	719.3	642.6	579.8	543.4	531.7	525.5	531.0	538.7	535.6	531.7
12.5°	786.7	725.5	613.9	544.1	510.0	501.5	512.4	522.4	537.9	544.1	536.4
15°	814.6	732.5	577.5	503.0	481.3	488.3	506.9	524.8	540.3	548.0	552.7
17.5°	848.8	730.2	541.8	470.5	454.2	474.4	496.8	513.1	536.4	548.0	544.9
20°	880.5	722.4	502.3	437.9	438.7	457.3	475.9	502.3	514.7	530.2	524.8
22.5°	910.8	708.5	461.2	415.5	415.5	444.1	453.4	470.5	481.3	489.1	488.3
25°	953.4	682.1	427.1	393.8	403.1	421.7	429.4	434.8	430.2	436.4	437.2
27.5°	983.6	655.0	399.2	374.4	391.4	405.4	403.1	400.0	389.1	380.6	386.0
30°	1016.2	623.2	375.2	361.2	370.5	382.9	373.6	364.3	347.3	333.3	334.1
32.5°	1062.7	608.5	354.2	345.7	358.1	359.7	349.6	335.6	318.6	305.4	304.6
35°	1149.5	599.2	336.4	335.6	338.0	338.7	328.6	311.6	304.6	293.8	297.6
37.5°	1236.3	594.5	324.0	320.9	320.1	320.9	309.3	293.0	306.2	305.4	306.9
40°	1347.1	615.4	306.2	302.3	303.1	303.1	288.3	283.7	306.9	309.3	310.0
42.5°	1459.5	641.8	294.5	282.1	285.2	285.2	277.5	272.1	288.3	272.8	270.5
45°	1557.2	680.6	282.1	262.0	269.7	273.6	271.3	262.0	251.9	225.6	225.6
47.5°	1589.0	714.7	267.4	242.6	248.8	265.9	258.9	239.5	221.7	200.0	198.4
50°	1644.8	751.9	255.8	220.1	233.3	254.2	247.3	227.9	207.7	192.2	193.0
52.5°	1702.2	794.5	234.1	193.8	210.1	244.9	244.9	223.2	192.2	181.4	179.8
55°	1788.2	792.9	195.3	158.9	187.6	231.0	234.9	200.0	172.1	163.5	163.5
56°	1800.6	757.3	176.0	148.8	177.5	227.1	227.9	193.8	164.3	155.0	155.0
57.5°	1707.6	683.7	154.2	136.4	165.1	220.1	220.9	188.4	158.1	144.9	143.4
60°	1313.8	462.7	128.7	121.7	149.6	198.4	202.3	171.3	138.7	128.7	127.9
62.5°	741.8	256.6	113.2	110.1	128.7	169.0	180.6	149.6	117.8	112.4	113.9
65°	338.7	141.1	95.3	89.1	103.9	130.2	145.7	123.2	96.9	90.7	90.7
67.5°	124.0	96.1	81.4	70.5	72.9	84.5	94.6	79.8	64.3	55.0	57.4
70°	88.4	80.6	71.3	61.2	56.6	55.0	54.3	45.0	31.8	24.8	26.4
72.5°	71.3	66.7	59.7	51.9	44.2	37.2	31.8	23.3	14.7	10.1	9.3
75°	51.2	48.8	43.4	37.2	31.0	26.4	21.7	14.7	7.8	3.9	3.9
77.5°	26.4	26.4	25.6	23.3	19.4	15.5	12.4	8.5	4.7	1.6	1.6
80°	20.2	21.7	22.5	20.2	17.8	14.0	10.1	6.2	3.1	0.8	0.8
82.5°	19.4	22.5	24.0	20.9	17.8	13.2	10.1	6.2	3.1	0.8	0.8
85°	4.7	4.7	7.0	7.8	10.1	10.9	8.5	5.4	2.3	0.8	0.8
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	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)