

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: P450942

Luminaire Tested: **GALN-SA1D-730-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450942  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5157 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

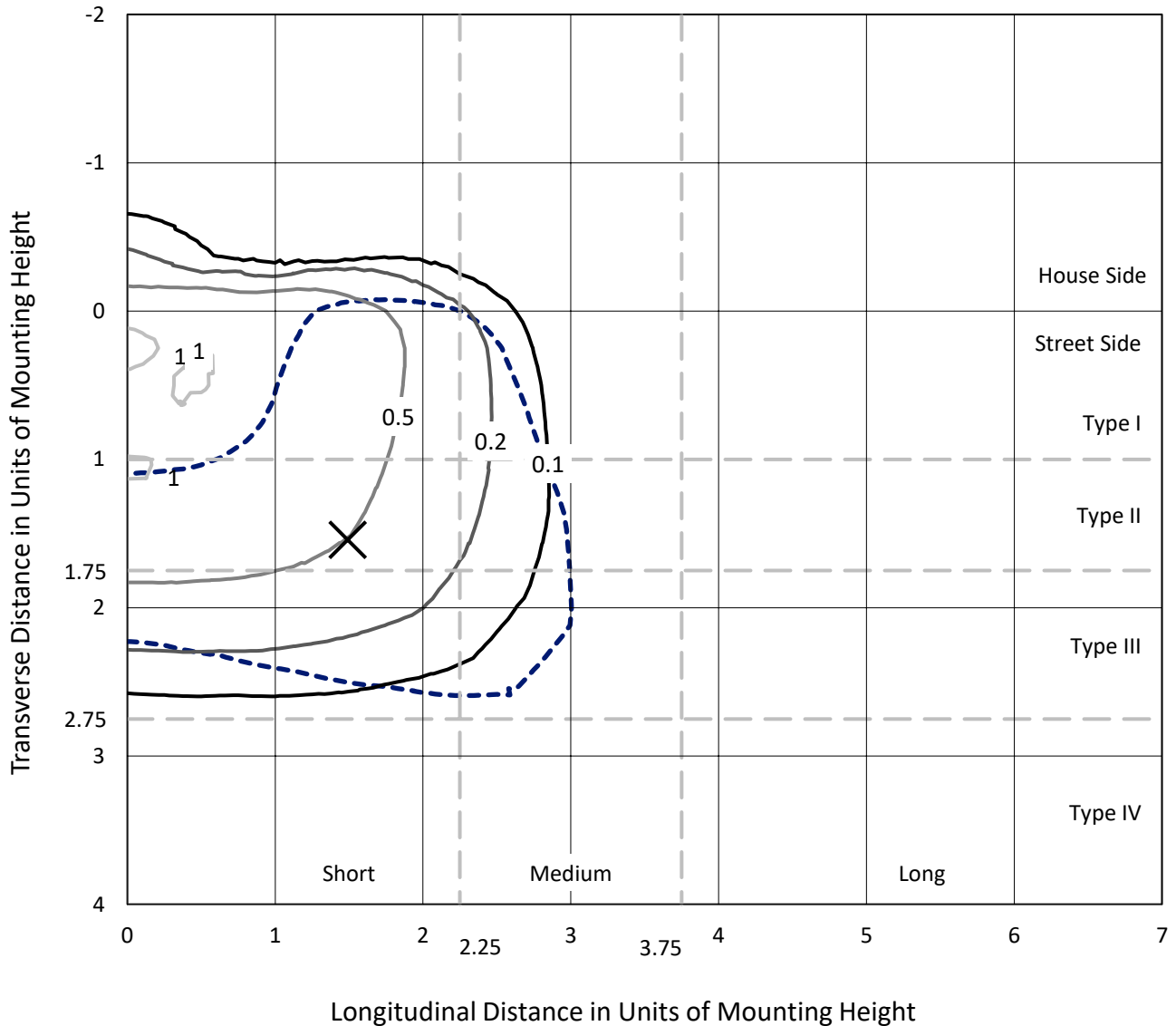
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

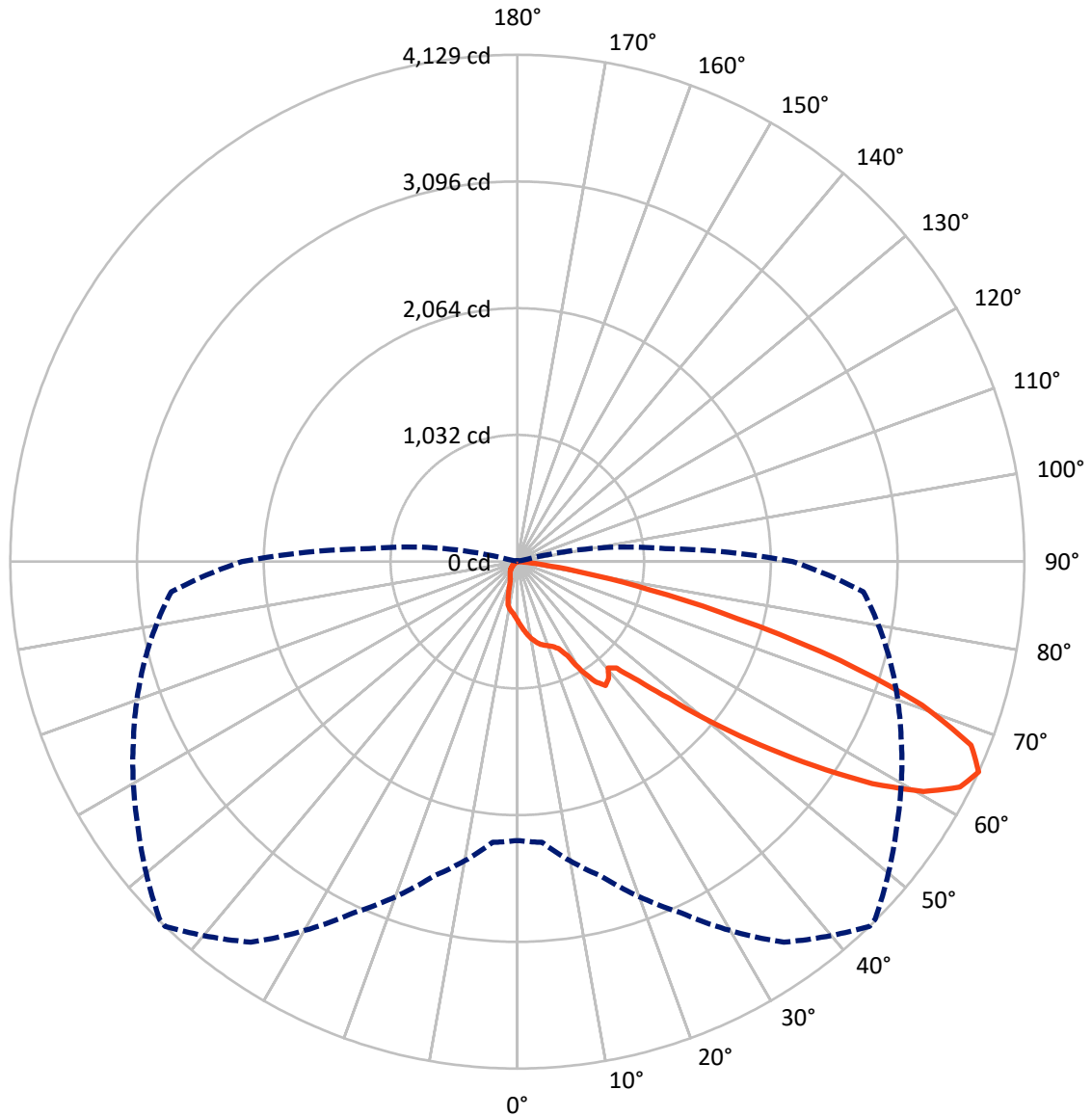
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	475.1	0.0	475.1
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	4681.9	0.0	4681.9
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	5157.0	0.0	5157.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.7	0.9
10°-20°	143.7	2.8
20°-30°	243.6	4.7
30°-40°	405.1	7.9
40°-50°	707.2	13.7
50°-60°	1381.7	26.8
60°-70°	1603.1	31.1
70°-80°	583.8	11.3
80°-90°	41.1	0.8
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°	5157.0	100.0
0°-180°	5157.0	100.0

**Coefficient of Utilization**



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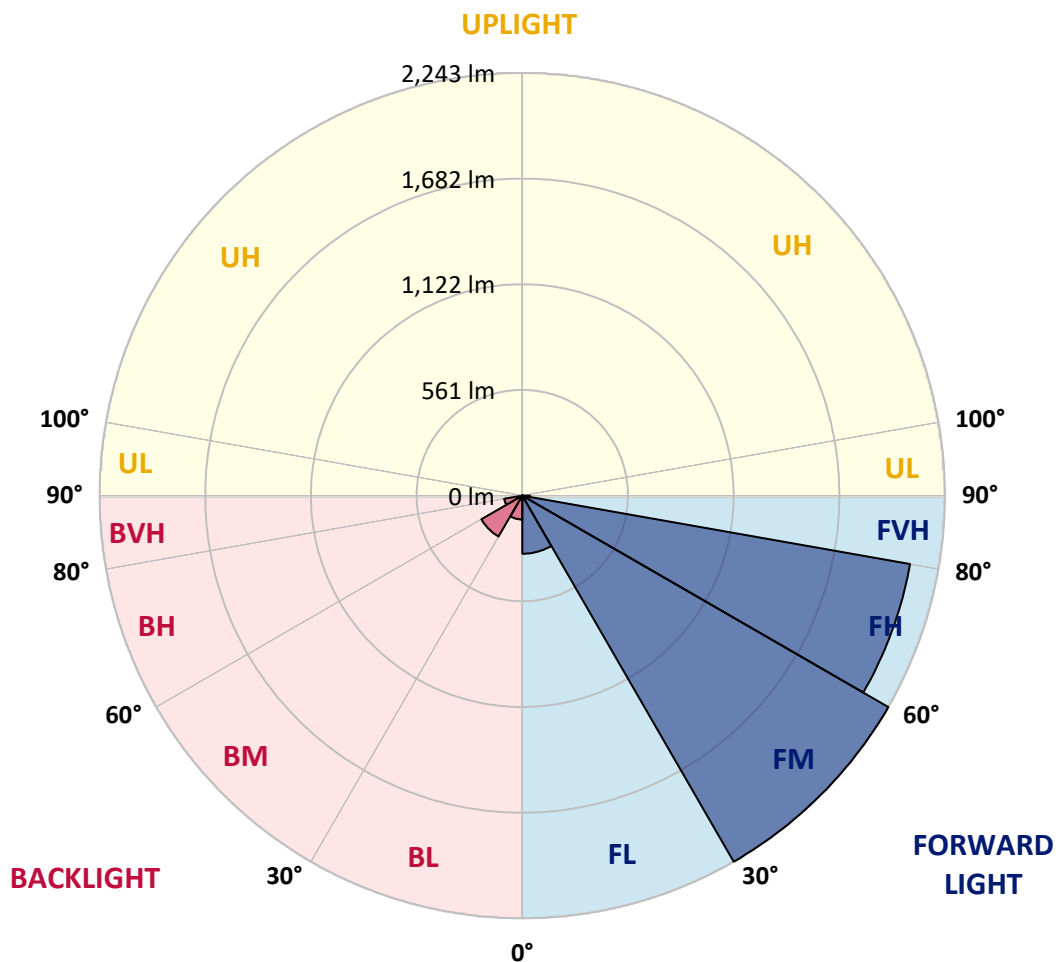
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	308.4	6.0			
FM	(30°-60°)	2243.3	43.5			
FH	(60°-80°)	2089.5	40.5			G2/5000
FVH	(80°-90°)	40.6	0.8			G1/100
BL	(0°-30°)	126.6	2.5	B1/500		
BM	(30°-60°)	250.7	4.9	B1/1000		
BH	(60°-80°)	97.3	1.9	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: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0
2.5°	540.3	537.9	536.7	530.4	525.7	519.8	519.8	512.3	503.6	494.1	485.5
5°	600.5	596.6	591.5	586.0	574.9	559.2	559.2	543.4	525.3	509.1	491.4
7.5°	658.5	654.9	646.3	635.6	617.5	600.9	599.8	576.9	555.2	530.8	505.6
10°	709.3	706.5	699.1	678.6	659.7	638.0	637.6	612.0	586.8	556.8	525.7
12.5°	744.8	745.2	735.3	715.6	691.2	670.7	669.1	643.9	617.5	585.2	547.0
15°	770.0	770.0	759.7	737.7	715.6	697.5	695.9	673.8	646.6	611.6	570.2
17.5°	777.1	779.4	768.4	748.7	731.0	715.2	714.8	696.3	674.6	640.7	593.8
20°	774.3	776.7	768.0	752.7	740.4	731.4	730.2	722.7	702.6	670.7	619.1
22.5°	768.4	770.8	764.5	755.4	749.5	752.3	750.3	756.6	746.0	707.3	649.0
25°	769.6	772.0	767.2	762.1	767.2	784.2	789.3	816.5	807.0	753.8	681.3
27.5°	806.6	811.4	804.7	807.0	825.2	864.6	874.4	921.3	879.5	812.9	731.8
30°	889.0	885.8	873.2	884.7	947.7	1031.3	1028.5	1021.0	955.6	881.1	791.7
32.5°	963.9	961.1	960.3	1009.6	1123.9	1164.4	1162.5	1090.0	1023.8	959.1	850.8
35°	994.2	983.6	981.2	1100.6	1291.7	1238.1	1225.9	1118.3	1106.5	1044.3	911.1
37.5°	1085.6	1078.1	1041.5	1115.6	1224.7	1207.0	1197.5	1167.2	1194.8	1119.5	979.2
40°	1274.0	1253.1	1220.0	1147.5	1129.8	1137.3	1146.7	1229.9	1299.2	1222.4	1070.3
42.5°	1508.1	1503.3	1441.9	1306.7	1173.9	1184.1	1196.4	1360.7	1449.3	1377.2	1218.8
45°	1789.0	1795.7	1707.1	1547.5	1373.3	1382.0	1399.7	1553.8	1652.7	1618.0	1452.5
47.5°	2044.4	2039.3	2009.3	1843.4	1682.6	1663.3	1692.1	1801.6	1934.0	1939.6	1742.5
50°	2301.3	2328.5	2284.0	2218.9	2099.5	2059.0	2048.3	2101.9	2303.7	2277.3	2090.9
52.5°	2670.5	2684.7	2601.2	2584.6	2611.8	2480.2	2469.6	2482.6	2663.0	2572.4	2351.7
55°	2902.6	2894.4	2863.2	2992.5	3100.1	2935.7	2922.3	2869.9	2961.3	2780.9	2602.8
57.5°	2975.9	2987.7	3060.3	3293.9	3548.5	3409.0	3384.6	3235.6	3176.5	2975.1	2833.7
60°	2943.2	2964.9	3121.3	3468.9	3822.0	3801.1	3780.2	3530.0	3331.0	3137.5	2995.6
62.5°	2710.3	2740.7	2990.9	3437.8	3914.6	4045.0	4019.0	3713.6	3433.8	3216.3	3024.0
65°	2271.4	2293.8	2653.2	3155.2	3783.0	4128.5	4119.1	3771.1	3450.0	3144.2	2829.7
67.5°	1619.2	1695.6	2028.6	2659.1	3393.6	3985.9	4002.1	3702.2	3298.3	2832.5	2343.5
70°	1017.9	1069.9	1308.7	1903.7	2720.6	3496.9	3550.1	3386.5	2862.4	2207.9	1568.7
72.5°	485.5	524.1	694.3	1205.0	1920.2	2751.3	2793.5	2780.1	2213.4	1391.0	809.4
75°	216.3	230.9	331.4	615.1	1239.7	1849.3	1958.5	1976.6	1383.1	680.5	314.9
77.5°	110.3	110.7	155.3	297.9	619.1	1103.4	1125.0	1188.5	749.9	299.9	109.5
80°	58.7	62.7	82.4	140.7	321.2	543.4	540.6	594.2	332.6	147.0	36.6
82.5°	26.4	29.2	46.5	73.7	156.8	206.1	222.2	243.1	142.6	93.8	16.2
85°	7.9	9.5	22.9	37.0	56.7	59.5	66.6	85.9	80.8	66.6	8.3
87.5°	1.2	1.2	9.5	10.2	8.3	10.6	11.0	12.2	26.0	24.4	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°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0
2.5°	480.8	478.0	468.1	459.9	452.8	448.4	443.3	440.2	438.6	437.4	437.8
5°	482.7	476.0	459.1	445.7	435.4	424.4	416.9	412.6	410.6	407.5	407.5
7.5°	493.8	483.1	459.5	439.0	421.2	406.3	392.1	387.0	383.4	382.6	381.8
10°	509.5	496.1	463.8	435.4	410.2	389.7	369.6	351.9	338.1	329.8	328.6
12.5°	529.2	509.9	470.5	433.1	400.8	364.5	311.3	275.4	251.4	243.9	245.1
15°	547.3	526.5	477.2	431.1	383.4	302.2	242.0	201.0	188.8	187.6	188.0
17.5°	569.0	544.2	485.1	428.3	335.7	230.9	179.7	168.7	171.0	175.0	174.6
20°	591.5	563.1	494.5	411.8	268.0	173.8	158.8	160.0	163.5	167.1	167.9
22.5°	615.5	584.8	505.6	372.0	204.5	151.3	150.5	152.1	155.7	159.6	160.4
25°	648.6	612.0	513.9	320.0	154.9	139.9	141.5	144.2	147.4	151.7	152.5
27.5°	691.2	648.6	518.2	252.2	134.0	129.6	130.0	134.0	137.9	141.9	141.9
30°	746.3	692.4	509.5	190.7	123.7	119.8	118.2	120.6	125.7	129.6	130.0
32.5°	795.6	733.7	486.7	145.8	116.2	110.7	106.8	107.2	109.2	111.5	111.9
35°	844.9	773.9	447.7	122.6	108.4	102.1	96.2	93.0	91.4	90.2	91.4
37.5°	907.9	824.0	395.6	111.5	101.7	93.8	85.5	78.8	73.3	69.7	70.5
40°	989.1	893.3	334.2	104.4	95.4	85.9	74.9	66.2	56.7	53.6	52.0
42.5°	1123.1	998.5	269.5	98.5	89.1	77.6	63.8	52.0	43.3	40.2	41.0
45°	1334.7	1131.3	207.7	92.2	82.8	68.6	53.6	41.0	33.9	32.3	33.1
47.5°	1615.2	1303.2	160.0	85.1	74.9	58.7	42.2	32.3	28.0	27.6	27.2
50°	1879.3	1463.1	133.6	77.2	65.4	48.9	34.7	27.2	24.4	24.0	24.0
52.5°	2118.1	1577.8	108.8	68.2	55.2	40.2	29.2	24.0	21.7	20.5	20.5
55°	2330.5	1652.7	88.3	57.1	43.3	31.9	25.2	21.7	18.9	17.3	16.9
57.5°	2490.8	1661.7	66.2	45.7	32.3	24.8	21.7	18.9	15.8	13.8	13.0
60°	2559.4	1583.3	48.9	34.7	24.0	19.7	17.3	15.4	11.8	9.9	9.5
62.5°	2490.4	1430.8	36.3	26.4	18.5	14.6	12.2	11.4	8.3	5.9	5.5
65°	2243.4	1210.5	28.8	20.1	13.8	10.6	7.9	7.5	5.1	2.8	2.4
67.5°	1797.3	948.1	22.9	15.0	9.9	7.1	5.1	4.7	2.8	0.8	0.8
70°	1168.8	606.1	18.5	11.0	6.3	4.7	3.2	2.4	1.6	0.4	0.0
72.5°	578.1	283.3	15.0	8.7	4.3	2.4	1.2	0.8	1.2	0.0	0.0
75°	224.2	100.9	11.0	5.9	2.4	1.2	0.8	0.0	0.4	0.0	0.0
77.5°	74.5	33.5	6.7	3.2	1.6	0.8	0.0	0.0	0.0	0.0	0.0
80°	27.6	13.0	3.5	2.0	0.8	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	11.0	5.1	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.5	3.2	1.6	1.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	2.4	1.6	1.2	0.8	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)