

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: P458548

Luminaire Tested: **GALN-SA1B-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4390 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

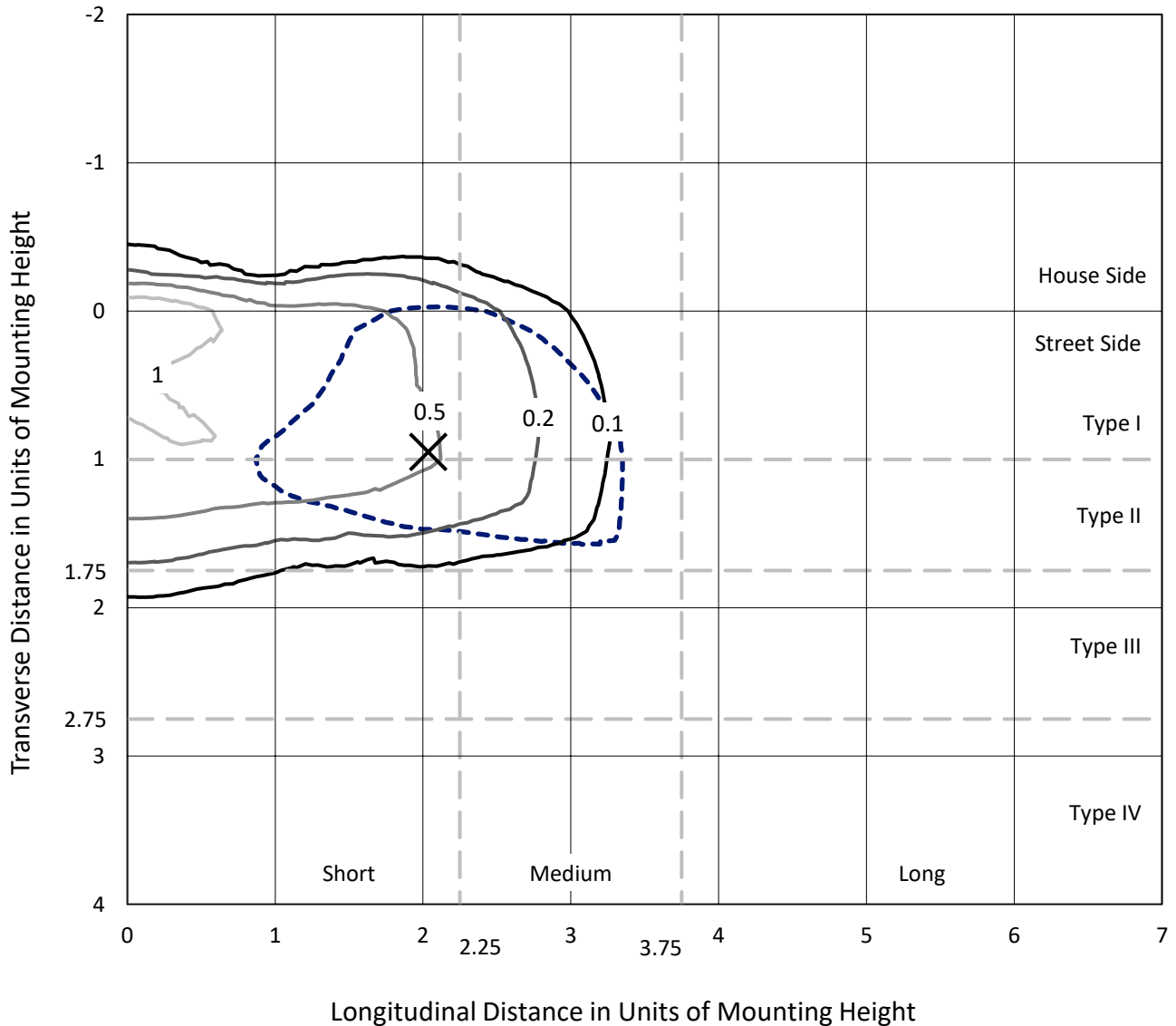
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

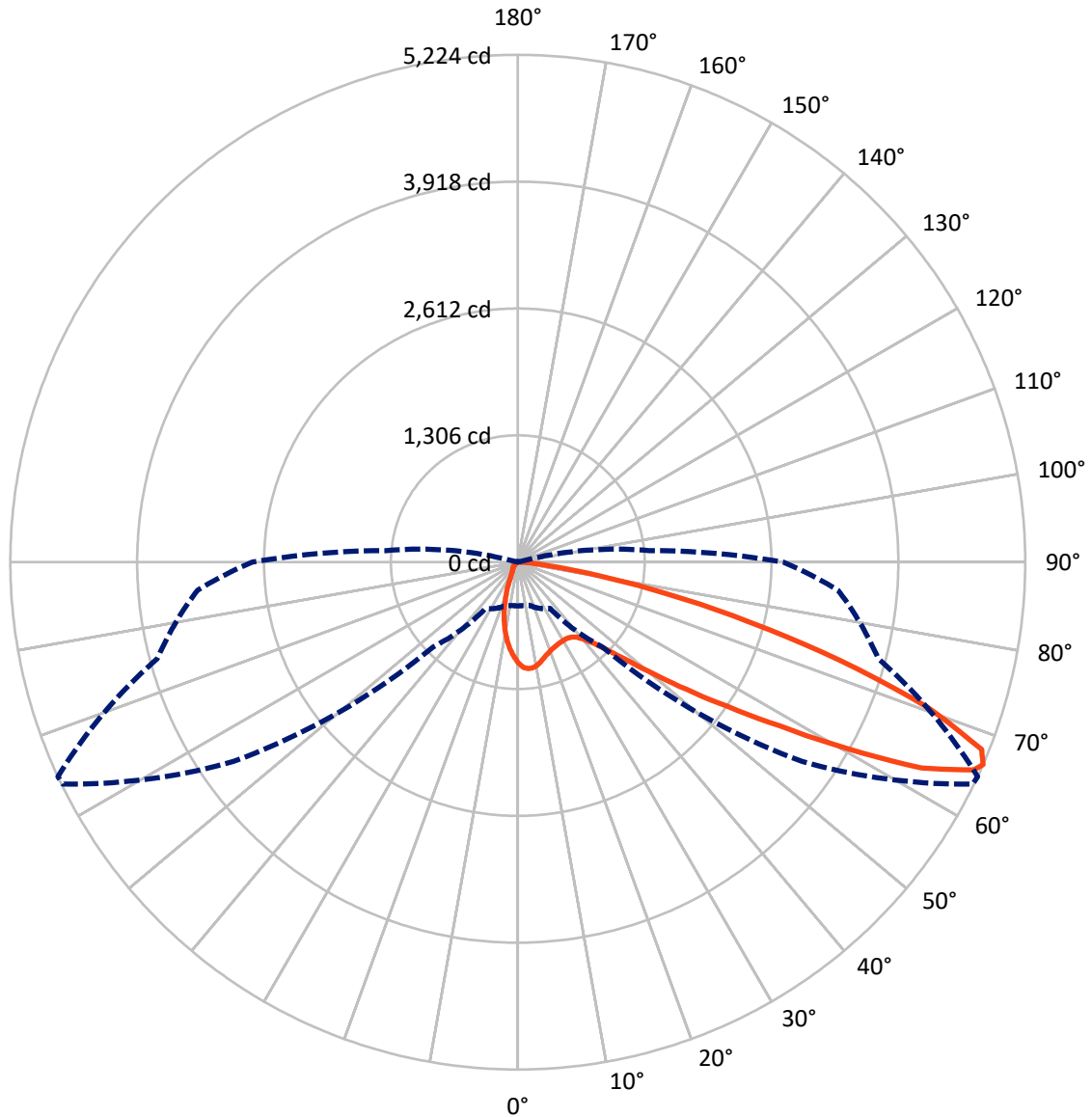
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	454.0	0.0	454.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3936.0	0.0	3936.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	4390.0	0.0	4390.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	1.9
10°-20°	185.5	4.2
20°-30°	265.7	6.1
30°-40°	388.1	8.8
40°-50°	650.8	14.8
50°-60°	1086.1	24.7
60°-70°	1152.9	26.3
70°-80°	522.2	11.9
80°-90°	53.4	1.2
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°	4390.0	100.0
0°-180°	4390.0	100.0

Coefficient of Utilization



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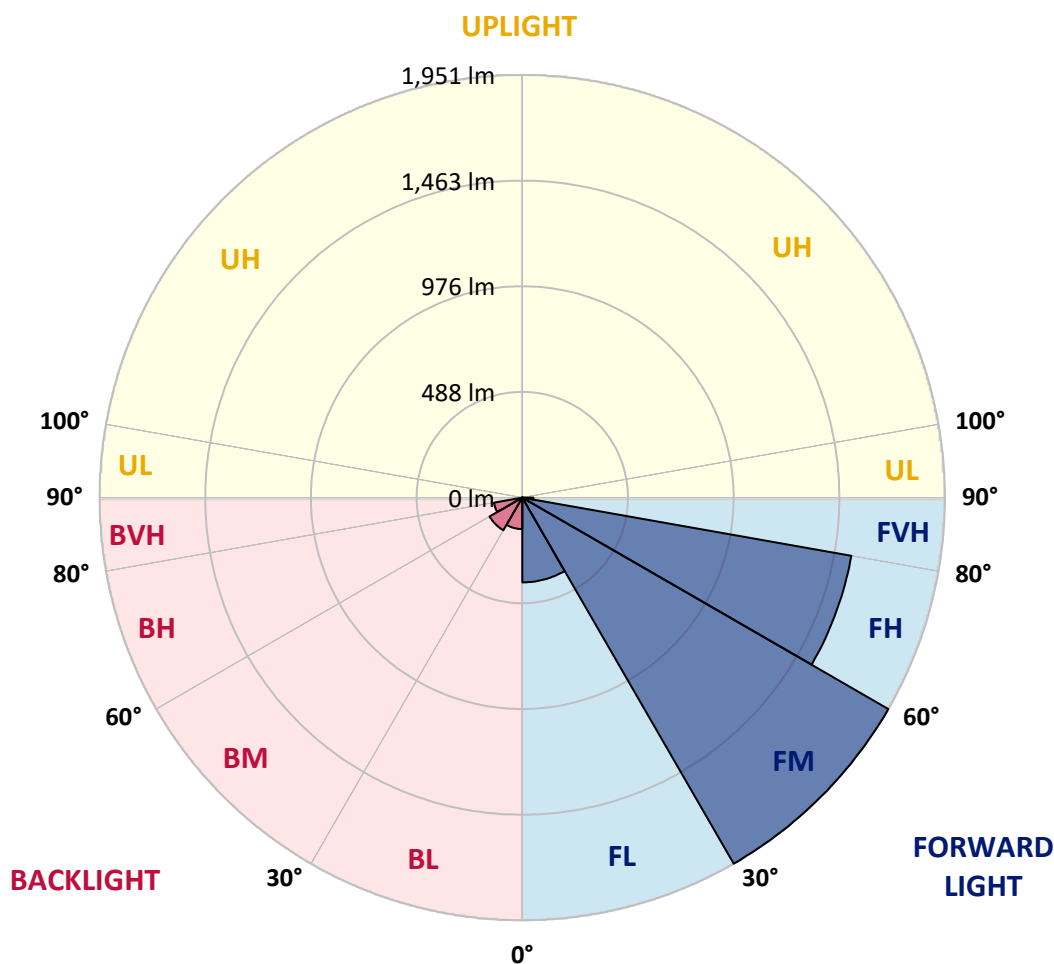
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	391.2	8.9			
FM (30°-60°)	1951.0	44.4			
FH (60°-80°)	1542.1	35.1			G1/1800
FVH (80°-90°)	51.7	1.2			G1/100
BL (0°-30°)	145.2	3.3	B1/500		
BM (30°-60°)	174.1	4.0	B0/220		
BH (60°-80°)	133.0	3.0	B1/500		G1/500
BVH (80°-90°)	1.7	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1041.0	1041.0	1041.0	1041.0	1041.0	1041.0	1041.0	1041.0	1041.0	1041.0	1041.0
2.5°	1097.1	1098.3	1099.7	1101.8	1103.3	1098.8	1092.6	1085.5	1084.0	1068.9	1050.5
5°	1038.4	1040.1	1053.2	1060.3	1076.3	1090.8	1100.0	1101.2	1100.6	1086.4	1057.0
7.5°	954.7	959.8	972.5	985.0	1014.9	1042.5	1075.1	1098.0	1099.4	1095.6	1059.1
10°	886.8	890.1	896.6	921.2	946.1	988.3	1033.9	1076.9	1080.5	1095.9	1057.3
12.5°	833.8	838.5	846.5	865.5	895.4	935.2	987.1	1044.9	1052.3	1090.3	1052.3
15°	796.7	799.1	807.1	825.8	854.8	891.6	944.1	1011.4	1017.9	1082.8	1051.4
17.5°	779.2	781.9	787.5	802.3	826.4	860.5	911.8	984.4	992.7	1078.1	1054.7
20°	784.0	786.3	786.6	794.3	810.6	839.4	888.0	959.2	969.9	1075.1	1060.0
22.5°	810.9	811.2	807.7	804.1	809.8	830.5	873.5	943.2	954.2	1074.5	1066.2
25°	851.3	852.2	846.2	833.8	822.5	833.2	870.2	932.8	942.6	1073.1	1070.1
27.5°	907.0	906.7	904.9	884.2	852.2	845.0	872.9	927.2	935.5	1068.9	1071.6
30°	985.0	982.6	978.8	955.3	906.4	873.8	884.2	923.6	931.3	1063.0	1067.7
32.5°	1061.8	1070.7	1070.1	1047.9	986.8	925.1	907.6	928.4	934.0	1059.1	1062.1
35°	1151.3	1151.0	1173.9	1165.6	1094.1	990.6	947.6	944.1	948.5	1061.8	1059.4
37.5°	1234.4	1242.1	1277.6	1286.2	1221.0	1083.1	1004.3	977.9	979.4	1079.9	1065.9
40°	1337.8	1352.7	1405.7	1434.5	1377.0	1220.4	1087.9	1039.8	1040.1	1124.3	1090.5
42.5°	1471.3	1494.7	1544.2	1592.2	1561.4	1382.9	1213.3	1138.0	1137.4	1202.6	1146.9
45°	1633.4	1649.8	1706.1	1782.3	1762.7	1609.7	1395.9	1290.1	1282.4	1331.0	1246.8
47.5°	1773.4	1795.6	1852.9	1939.7	2028.7	1886.7	1614.2	1499.1	1494.1	1535.3	1418.2
50°	1834.5	1854.0	1914.2	2036.1	2251.7	2250.2	1939.1	1804.2	1795.6	1817.9	1683.3
52.5°	1767.5	1785.9	1846.6	1998.4	2356.6	2693.2	2410.0	2187.0	2176.6	2148.2	1999.9
55°	1538.0	1553.1	1642.9	1817.3	2316.3	2988.5	3058.8	2660.0	2619.6	2509.0	2358.4
57.5°	1224.6	1216.9	1272.6	1475.1	2079.7	3087.5	3724.7	3249.1	3177.1	2821.0	2661.7
60°	848.6	872.3	894.9	1028.3	1563.8	2915.8	4138.9	3989.8	3894.9	3127.8	2952.3
62.5°	623.8	639.6	654.4	716.1	983.2	2328.2	4212.2	4750.6	4666.4	3453.7	3229.5
65°	493.4	494.6	500.5	561.3	647.9	1514.0	3860.2	5179.7	5158.0	3767.4	3341.9
66°	449.5	449.8	459.0	524.2	581.4	1232.9	3578.2	5212.3	5224.1	3842.7	3309.0
67.5°	392.9	391.7	405.0	471.1	529.6	888.9	3073.6	5080.0	5150.3	3900.5	3190.7
70°	304.5	303.0	319.3	395.2	487.8	593.0	2042.9	4361.9	4475.2	3782.2	2823.0
72.5°	202.8	204.0	231.9	311.9	465.5	522.1	1229.0	3318.2	3478.3	3123.4	2220.8
75°	118.3	120.4	152.1	231.9	404.1	497.8	695.6	2366.1	2468.4	2156.8	1383.5
77.5°	62.0	62.9	85.1	153.0	309.8	462.3	463.4	1511.6	1559.6	1048.1	547.6
80°	32.9	32.0	45.7	92.2	213.2	405.9	376.0	800.3	832.0	311.3	138.5
82.5°	12.5	13.6	24.3	60.5	126.0	291.5	323.8	353.7	342.8	68.5	58.1
85°	2.4	3.0	10.4	35.9	63.5	121.9	238.7	173.5	160.7	25.8	33.5
87.5°	0.3	0.6	3.0	8.6	9.2	41.2	70.6	48.0	41.5	9.5	13.9
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°	1041.0	1041.0	1041.0	1041.0	1041.0	1041.0	1041.0	1041.0	1041.0	1041.0	1041.0
2.5°	1041.6	1033.6	1006.9	980.5	953.6	929.2	912.6	885.7	878.8	869.1	863.4
5°	1039.5	1020.9	969.6	913.5	861.3	805.0	762.0	720.5	698.3	687.0	682.9
7.5°	1033.6	1004.0	923.9	836.1	752.5	668.3	595.1	539.3	503.5	478.9	462.3
10°	1021.8	980.8	870.8	750.2	623.8	512.7	419.9	349.3	294.7	277.5	278.1
12.5°	1009.6	955.0	811.5	654.7	498.1	357.9	259.4	203.7	177.6	169.0	167.2
15°	998.3	930.4	753.4	562.2	370.9	231.9	167.2	147.7	140.5	139.1	138.8
17.5°	992.4	907.6	691.5	456.3	258.8	157.4	134.0	128.7	126.6	125.1	124.5
20°	987.4	887.7	632.1	357.3	177.0	129.0	120.1	115.0	111.5	110.0	109.1
22.5°	983.8	867.3	570.8	276.6	135.5	114.5	106.4	99.9	94.9	93.1	91.9
25°	978.5	844.7	508.8	202.2	114.2	101.7	92.5	84.8	78.3	75.0	74.4
27.5°	970.8	819.2	440.9	149.7	102.0	90.4	79.2	69.7	63.2	59.6	59.9
30°	958.3	792.6	373.0	118.9	92.2	78.9	66.7	57.5	51.3	48.6	48.3
32.5°	943.5	760.2	310.7	102.0	83.3	68.5	55.7	47.7	43.0	40.9	40.6
35°	929.5	727.6	247.3	91.6	74.1	59.0	46.8	40.0	36.5	34.7	35.0
37.5°	921.8	698.6	192.7	83.3	66.7	50.7	40.3	34.4	31.1	29.7	29.4
40°	926.9	674.8	153.3	75.9	58.4	43.6	34.7	29.7	26.4	24.3	24.3
42.5°	950.6	664.5	123.6	68.8	50.7	37.7	30.2	25.5	21.9	19.9	20.2
45°	1022.9	675.4	103.5	62.3	43.6	32.6	26.1	21.1	17.8	16.3	16.0
47.5°	1143.0	716.7	89.5	55.4	37.4	27.9	21.9	17.5	14.2	13.0	12.7
50°	1353.0	801.8	79.2	48.6	31.7	23.7	18.1	13.9	11.3	10.1	10.1
52.5°	1641.8	987.4	71.8	40.9	26.7	20.2	14.8	11.3	8.9	8.0	7.7
55°	1943.6	1183.1	67.9	34.4	22.2	16.6	11.9	8.9	6.8	5.9	5.6
57.5°	2233.9	1336.6	63.5	27.9	17.8	12.7	9.2	6.8	4.7	4.2	3.9
60°	2512.3	1460.9	54.0	22.2	13.9	9.2	6.8	4.7	3.3	2.7	2.7
62.5°	2761.4	1533.2	42.4	17.8	10.7	6.5	4.4	3.6	2.4	1.8	1.8
65°	2790.4	1439.2	32.0	13.6	7.7	4.2	2.7	2.7	1.8	1.2	1.2
66°	2732.0	1359.5	28.2	12.5	6.8	3.6	2.4	2.1	1.5	0.9	0.9
67.5°	2601.5	1223.4	24.3	10.7	5.6	2.7	1.8	1.8	1.2	0.6	0.6
70°	2247.8	999.2	19.3	8.0	4.2	2.1	1.2	1.2	0.9	0.6	0.6
72.5°	1713.2	746.0	15.7	5.9	3.0	1.5	0.9	0.9	0.9	0.6	0.6
75°	1033.3	401.8	12.2	4.4	2.7	1.2	0.6	0.9	1.2	0.9	0.6
77.5°	380.7	136.7	9.5	3.6	2.1	1.2	0.6	0.6	1.2	0.9	0.9
80°	93.4	35.6	6.8	3.0	2.1	1.2	0.6	0.6	1.2	1.2	1.2
82.5°	43.3	15.1	4.7	2.7	2.1	1.2	0.6	0.6	0.9	1.2	1.2
85°	24.9	7.1	3.9	3.0	2.1	1.2	0.6	0.6	0.9	1.2	1.2
87.5°	10.1	3.6	3.6	3.0	2.4	1.5	0.6	0.6	0.6	0.9	0.9
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)