

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: P450486

Luminaire Tested: **GALN-SA1B-740-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450486
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-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 4712 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 II - Short
BUG Rating: B1 - U0 - G1

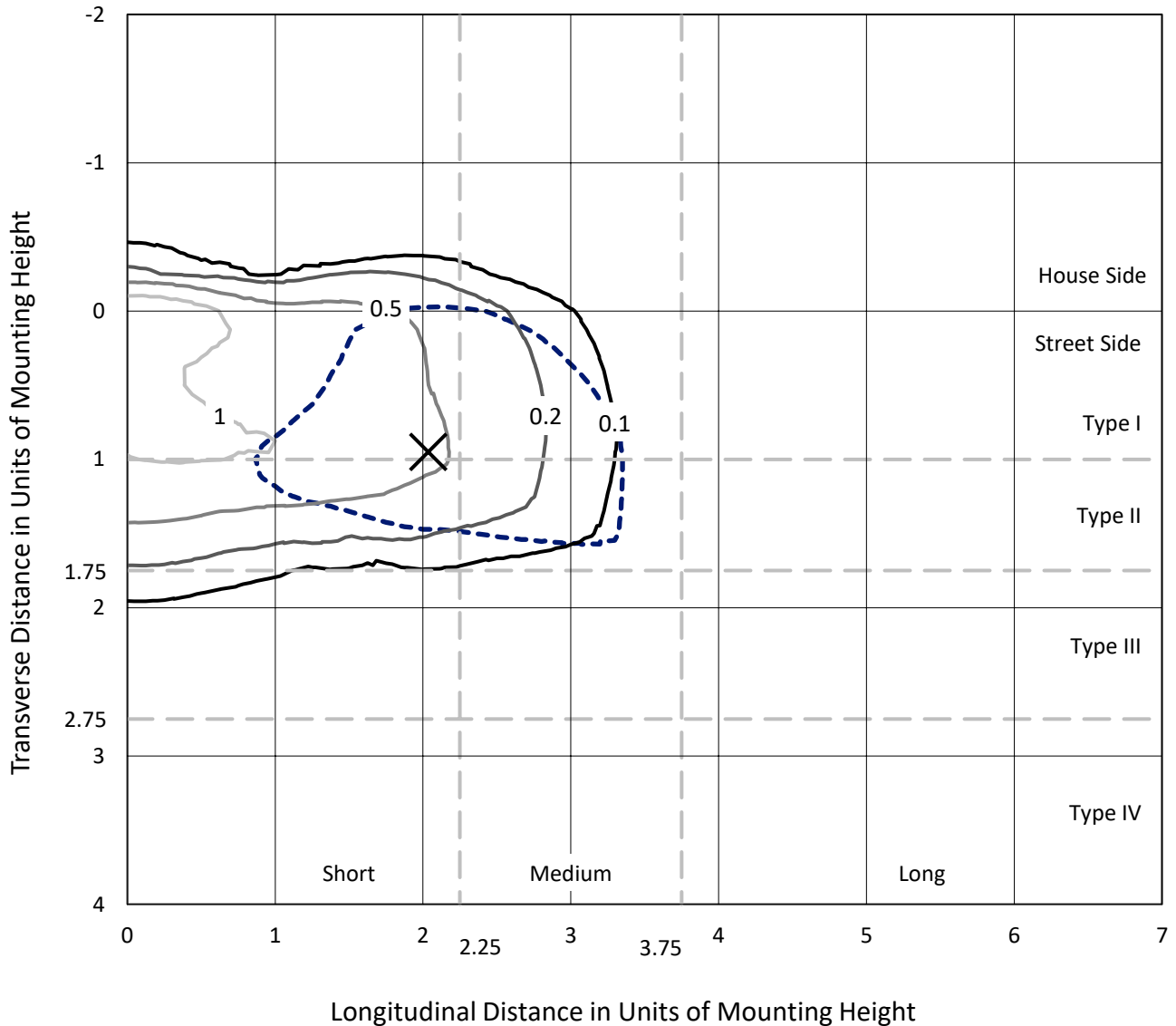
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

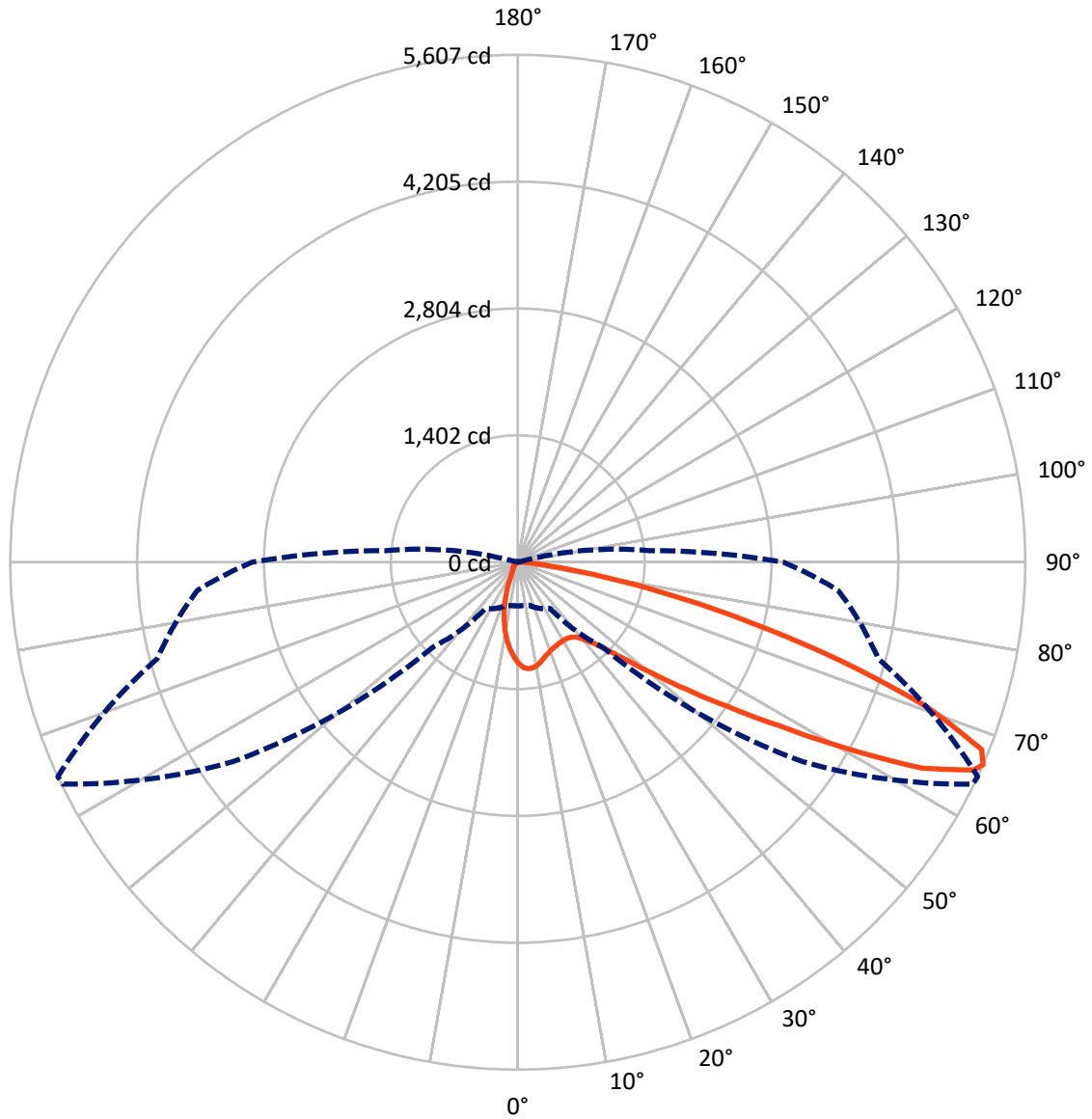
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	487.3	0.0	487.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	4224.7	0.0	4224.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	4712.0	0.0	4712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	1.9
10°-20°	199.1	4.2
20°-30°	285.2	6.1
30°-40°	416.6	8.8
40°-50°	698.6	14.8
50°-60°	1165.8	24.7
60°-70°	1237.5	26.3
70°-80°	560.5	11.9
80°-90°	57.3	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°	4712.0	100.0
0°-180°	4712.0	100.0

Coefficient of Utilization



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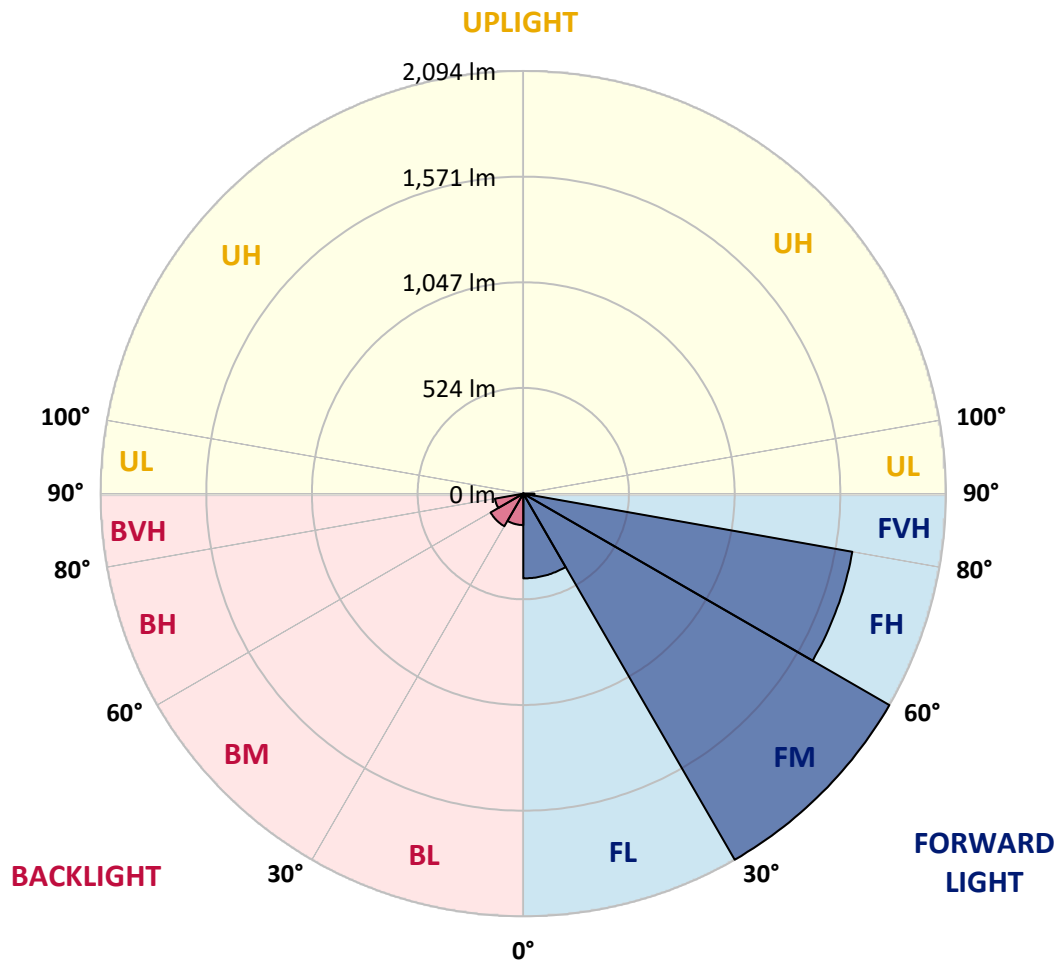
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	419.9	8.9			
FM (30°-60°)	2094.1	44.4			
FH (60°-80°)	1655.2	35.1			G1/1800
FVH (80°-90°)	55.5	1.2			G1/100
BL (0°-30°)	155.9	3.3	B1/500		
BM (30°-60°)	186.9	4.0	B0/220		
BH (60°-80°)	142.7	3.0	B1/500		G1/500
BVH (80°-90°)	1.8	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°	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4
2.5°	1177.5	1178.8	1180.4	1182.6	1184.2	1179.4	1172.8	1165.1	1163.5	1147.3	1127.6
5°	1114.5	1116.4	1130.4	1138.1	1155.3	1170.9	1180.7	1182.0	1181.4	1166.1	1134.6
7.5°	1024.8	1030.2	1043.9	1057.2	1089.4	1119.0	1154.0	1178.5	1180.1	1175.9	1136.8
10°	951.9	955.4	962.4	988.8	1015.5	1060.7	1109.8	1155.9	1159.7	1176.3	1134.9
12.5°	894.9	900.0	908.6	929.0	961.1	1003.8	1059.5	1121.5	1129.5	1170.2	1129.5
15°	855.1	857.7	866.3	886.3	917.5	957.0	1013.3	1085.6	1092.6	1162.3	1128.5
17.5°	836.4	839.2	845.3	861.2	887.0	923.6	978.6	1056.6	1065.5	1157.2	1132.0
20°	841.5	844.0	844.3	852.6	870.1	901.0	953.2	1029.6	1041.0	1154.0	1137.8
22.5°	870.4	870.7	866.9	863.1	869.2	891.4	937.6	1012.4	1024.1	1153.4	1144.4
25°	913.7	914.7	908.3	894.9	882.8	894.3	934.1	1001.2	1011.7	1151.8	1148.6
27.5°	973.5	973.2	971.3	949.0	914.7	907.0	936.9	995.2	1004.1	1147.3	1150.2
30°	1057.2	1054.7	1050.6	1025.4	972.9	937.9	949.0	991.4	999.6	1140.9	1146.0
32.5°	1139.7	1149.2	1148.6	1124.7	1059.1	993.0	974.2	996.5	1002.5	1136.8	1140.0
35°	1235.8	1235.5	1260.0	1251.1	1174.4	1063.3	1017.1	1013.3	1018.1	1139.7	1137.1
37.5°	1324.9	1333.2	1371.4	1380.6	1310.6	1162.6	1077.9	1049.6	1051.2	1159.1	1144.1
40°	1436.0	1451.9	1508.8	1539.7	1478.0	1309.9	1167.7	1116.1	1116.4	1206.8	1170.5
42.5°	1579.2	1604.3	1657.5	1709.0	1675.9	1484.3	1302.3	1221.5	1220.8	1290.8	1231.0
45°	1753.3	1770.8	1831.2	1913.0	1892.0	1727.8	1498.3	1384.7	1376.4	1428.6	1338.3
47.5°	1903.5	1927.3	1988.8	2082.0	2177.5	2025.0	1732.6	1609.1	1603.7	1647.9	1522.2
50°	1969.0	1990.0	2054.6	2185.4	2416.8	2415.2	2081.4	1936.6	1927.3	1951.2	1806.7
52.5°	1897.1	1916.8	1982.1	2145.0	2529.5	2890.7	2586.8	2347.4	2336.3	2305.7	2146.6
55°	1650.8	1667.0	1763.4	1950.6	2486.2	3207.7	3283.1	2855.1	2811.8	2693.1	2531.4
57.5°	1314.4	1306.1	1365.9	1583.3	2232.2	3314.0	3997.9	3487.4	3410.1	3027.9	2857.0
60°	910.8	936.3	960.5	1103.7	1678.5	3129.7	4442.5	4282.4	4180.6	3357.3	3168.9
62.5°	669.6	686.5	702.4	768.6	1055.3	2498.9	4521.1	5099.1	5008.7	3707.0	3466.4
65°	529.6	530.8	537.2	602.5	695.4	1625.0	4143.3	5559.6	5536.3	4043.7	3587.0
66°	482.5	482.8	492.7	562.7	624.1	1323.3	3840.7	5594.6	5607.3	4124.6	3551.7
67.5°	421.7	420.4	434.7	505.7	568.4	954.1	3299.0	5452.6	5528.1	4186.6	3424.7
70°	326.8	325.3	342.8	424.2	523.5	636.5	2192.8	4681.8	4803.4	4059.6	3030.1
72.5°	217.7	219.0	248.9	334.8	499.7	560.4	1319.2	3561.6	3733.4	3352.5	2383.7
75°	127.0	129.2	163.3	248.9	433.8	534.3	746.6	2539.7	2649.5	2315.0	1485.0
77.5°	66.5	67.5	91.3	164.2	332.6	496.2	497.4	1622.5	1674.0	1125.0	587.8
80°	35.3	34.4	49.0	99.0	228.8	435.7	403.5	859.0	893.0	334.2	148.6
82.5°	13.4	14.6	26.1	64.9	135.3	312.8	347.5	379.7	367.9	73.5	62.4
85°	2.5	3.2	11.1	38.5	68.1	130.8	256.2	186.2	172.5	27.7	36.0
87.5°	0.3	0.6	3.2	9.2	9.9	44.2	75.7	51.6	44.6	10.2	15.0
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°	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4	1117.4
2.5°	1118.0	1109.4	1080.8	1052.5	1023.5	997.4	979.6	950.6	943.3	932.8	926.8
5°	1115.8	1095.7	1040.7	980.5	924.5	864.1	817.9	773.4	749.5	737.4	732.9
7.5°	1109.4	1077.6	991.7	897.5	807.7	717.3	638.7	578.9	540.4	514.0	496.2
10°	1096.7	1052.8	934.7	805.2	669.6	550.3	450.6	374.9	316.3	297.9	298.5
12.5°	1083.7	1025.1	871.1	702.7	534.7	384.1	278.5	218.6	190.6	181.4	179.5
15°	1071.6	998.7	808.7	603.4	398.1	248.9	179.5	158.5	150.9	149.3	148.9
17.5°	1065.2	974.2	742.2	489.8	277.8	169.0	143.9	138.1	135.9	134.3	133.7
20°	1059.8	952.9	678.5	383.5	190.0	138.4	128.9	123.5	119.7	118.1	117.1
22.5°	1056.0	930.9	612.6	296.9	145.4	122.8	114.3	107.3	101.8	99.9	98.7
25°	1050.2	906.7	546.1	217.0	122.5	109.2	99.3	91.0	84.0	80.5	79.9
27.5°	1042.0	879.3	473.2	160.7	109.5	97.1	85.0	74.8	67.8	64.0	64.3
30°	1028.6	850.7	400.4	127.6	99.0	84.7	71.6	61.7	55.1	52.2	51.9
32.5°	1012.7	816.0	333.5	109.5	89.4	73.5	59.8	51.2	46.1	43.9	43.6
35°	997.7	781.0	265.4	98.3	79.6	63.3	50.3	43.0	39.1	37.2	37.6
37.5°	989.5	749.8	206.9	89.4	71.6	54.4	43.3	36.9	33.4	31.8	31.5
40°	994.9	724.3	164.5	81.5	62.7	46.8	37.2	31.8	28.3	26.1	26.1
42.5°	1020.3	713.2	132.7	73.8	54.4	40.4	32.5	27.4	23.6	21.3	21.6
45°	1098.0	725.0	111.1	66.8	46.8	35.0	28.0	22.6	19.1	17.5	17.2
47.5°	1226.9	769.2	96.1	59.5	40.1	29.9	23.6	18.8	15.3	14.0	13.7
50°	1452.2	860.6	85.0	52.2	34.1	25.5	19.4	15.0	12.1	10.8	10.8
52.5°	1762.2	1059.8	77.0	43.9	28.6	21.6	15.9	12.1	9.5	8.6	8.3
55°	2086.2	1269.8	72.9	36.9	23.9	17.8	12.7	9.5	7.3	6.4	6.0
57.5°	2397.7	1434.7	68.1	29.9	19.1	13.7	9.9	7.3	5.1	4.5	4.1
60°	2696.6	1568.0	57.9	23.9	15.0	9.9	7.3	5.1	3.5	2.9	2.9
62.5°	2963.9	1645.7	45.5	19.1	11.5	7.0	4.8	3.8	2.5	1.9	1.9
65°	2995.1	1544.8	34.4	14.6	8.3	4.5	2.9	2.9	1.9	1.3	1.3
66°	2932.4	1459.2	30.2	13.4	7.3	3.8	2.5	2.2	1.6	1.0	1.0
67.5°	2792.4	1313.1	26.1	11.5	6.0	2.9	1.9	1.9	1.3	0.6	0.6
70°	2412.7	1072.5	20.7	8.6	4.5	2.2	1.3	1.3	1.0	0.6	0.6
72.5°	1838.9	800.7	16.9	6.4	3.2	1.6	1.0	1.0	1.0	0.6	0.6
75°	1109.1	431.2	13.0	4.8	2.9	1.3	0.6	1.0	1.3	1.0	0.6
77.5°	408.6	146.7	10.2	3.8	2.2	1.3	0.6	0.6	1.3	1.0	1.0
80°	100.2	38.2	7.3	3.2	2.2	1.3	0.6	0.6	1.3	1.3	1.3
82.5°	46.5	16.2	5.1	2.9	2.2	1.3	0.6	0.6	1.0	1.3	1.3
85°	26.7	7.6	4.1	3.2	2.2	1.3	0.6	0.6	1.0	1.3	1.3
87.5°	10.8	3.8	3.8	3.2	2.5	1.6	0.6	0.6	0.6	1.0	1.0
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)