

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: P651754

Luminaire Tested: **GALN-SA2A-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651754  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-840-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4703.7 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

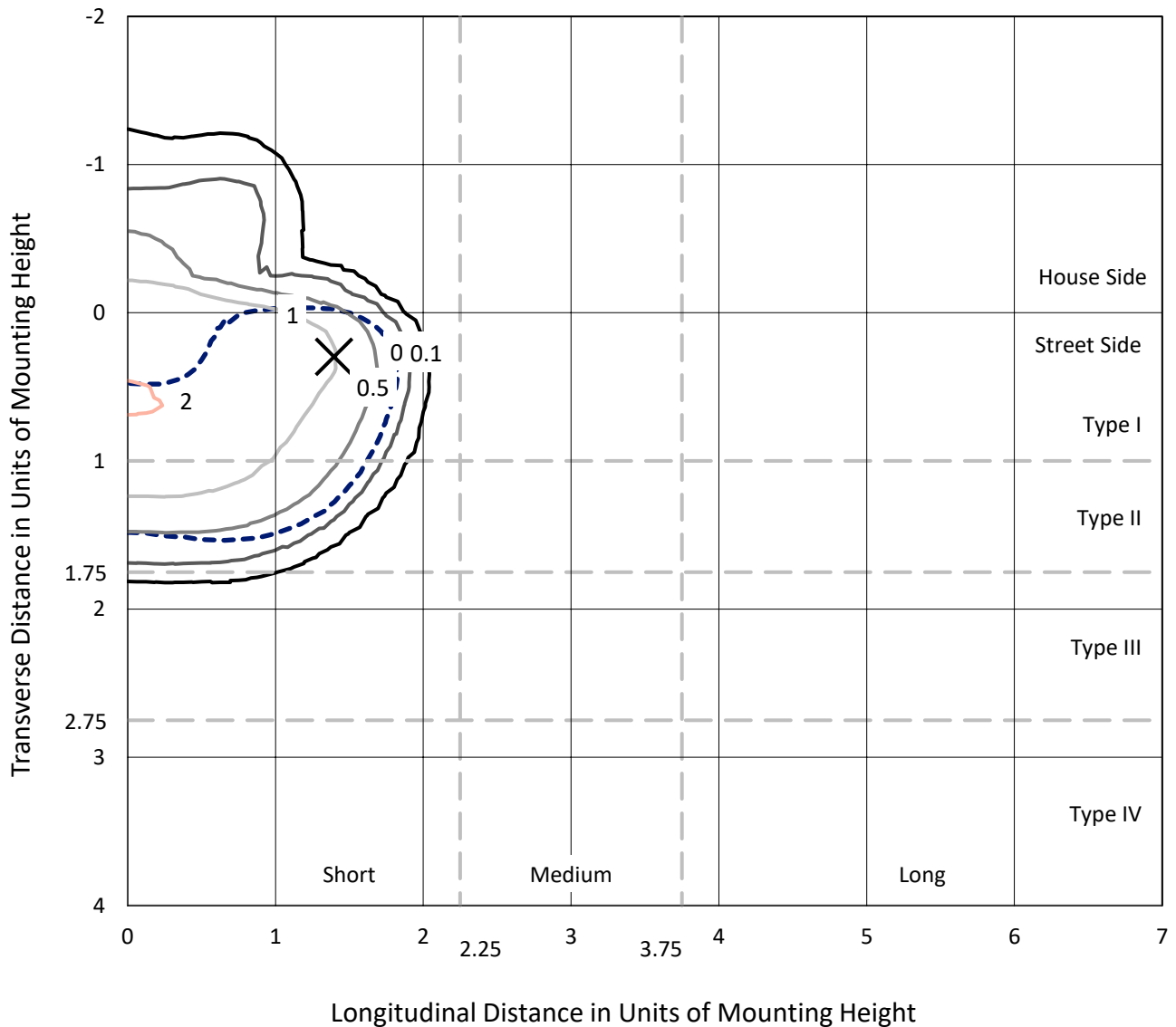
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

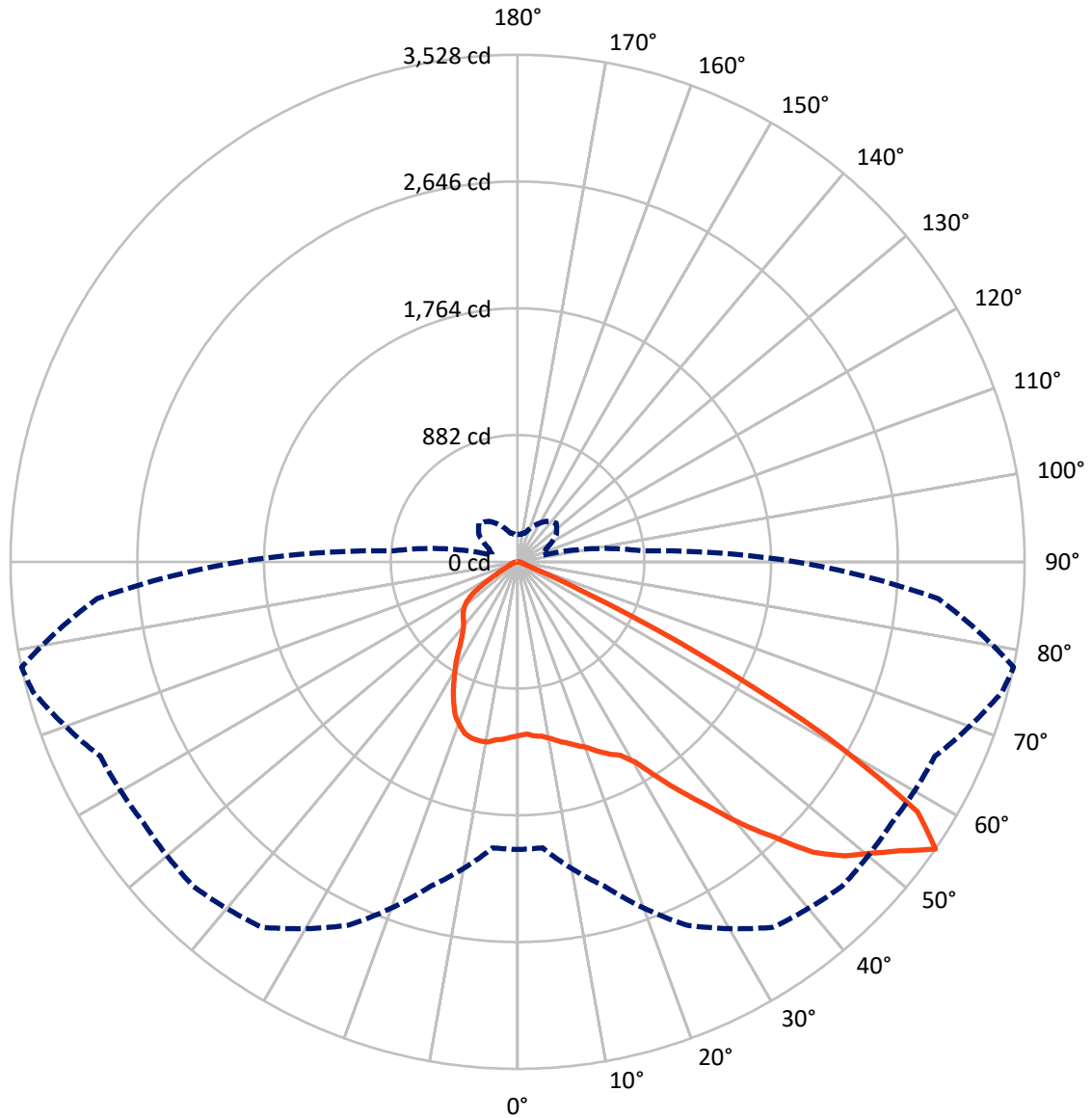
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	873.7	0.0	873.7
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	3830.0	0.0	3830.0
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	4703.7	0.0	4703.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.8	2.3
10°-20°	285.4	6.1
20°-30°	500.2	10.6
30°-40°	824.8	17.5
40°-50°	1200.2	25.5
50°-60°	1360.0	28.9
60°-70°	388.8	8.3
70°-80°	30.2	0.6
80°-90°	6.3	0.1
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°	4703.7	100.0
0°-180°	4703.7	100.0

**Coefficient of Utilization**

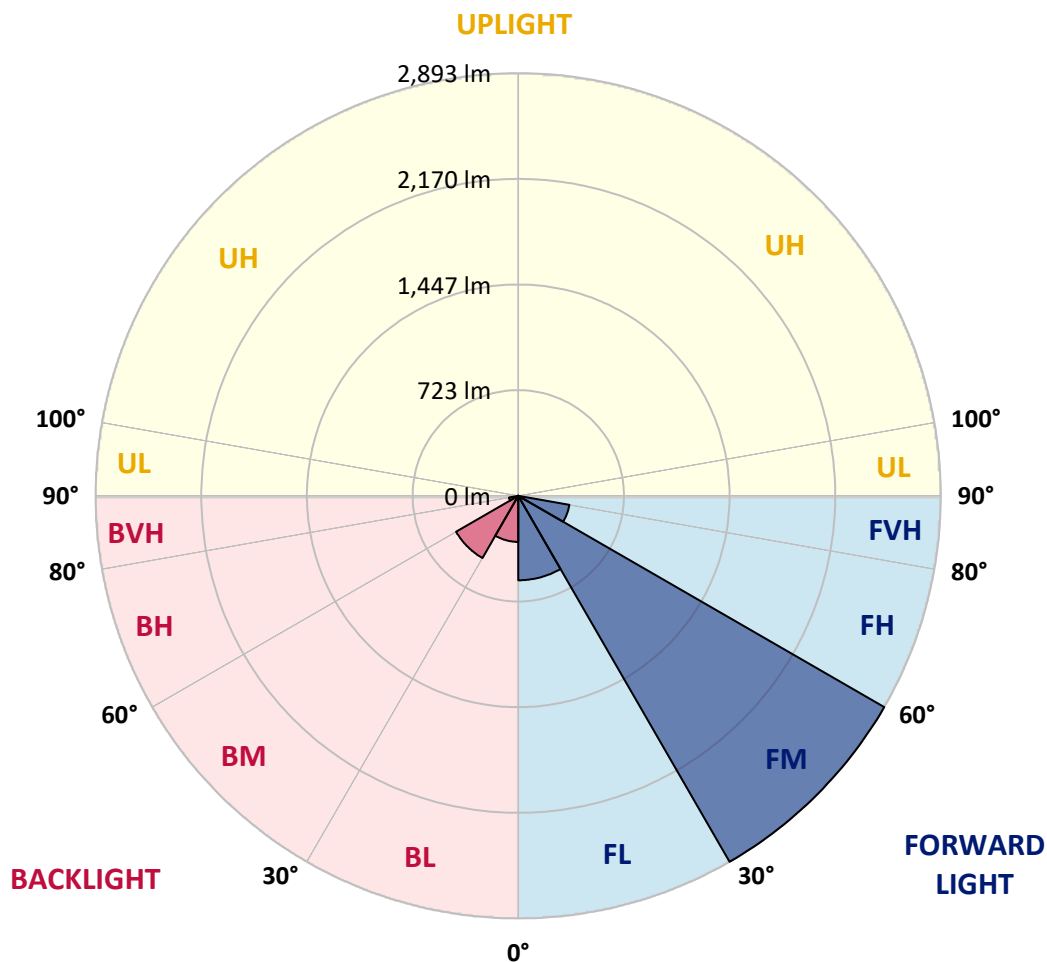


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	578.2	12.3			
FM (30°-60°)	2893.5	61.5			
FH (60°-80°)	355.3	7.6			G0/660
FVH (80°-90°)	3.1	0.1			G0/10
BL (0°-30°)	315.2	6.7	B1/500		
BM (30°-60°)	491.5	10.4	B1/1000		
BH (60°-80°)	63.8	1.4	B0/110		G0/110
BVH (80°-90°)	3.2	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°	78°	85°
0°	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4
2.5°	1137.0	1148.0	1149.6	1163.1	1162.3	1185.0	1191.7	1192.5	1207.7	1200.1	1219.4
5°	1105.1	1099.2	1096.7	1120.2	1126.9	1147.1	1163.9	1174.0	1205.2	1216.1	1236.3
7.5°	1076.5	1076.5	1078.2	1099.2	1096.7	1122.7	1140.4	1171.5	1216.9	1226.2	1250.6
10°	1048.7	1038.6	1051.2	1073.1	1091.6	1103.4	1140.4	1169.8	1222.8	1249.7	1283.4
12.5°	1034.4	1039.5	1041.2	1057.1	1077.3	1112.6	1132.8	1181.6	1264.9	1280.8	1317.0
15°	1124.4	1114.3	1089.9	1075.6	1092.5	1109.3	1159.7	1209.4	1286.7	1309.4	1349.8
17.5°	1228.7	1220.3	1200.1	1161.4	1123.6	1154.7	1194.2	1239.6	1310.3	1343.9	1403.6
20°	1364.9	1351.5	1331.3	1255.6	1222.8	1189.2	1231.2	1285.0	1349.0	1379.2	1440.6
22.5°	1527.3	1527.3	1481.8	1390.2	1322.1	1290.1	1307.8	1338.9	1391.9	1433.1	1493.6
25°	1696.2	1691.2	1650.0	1555.0	1439.8	1401.9	1422.1	1444.0	1458.3	1481.0	1521.4
27.5°	1889.6	1860.2	1808.1	1702.9	1601.3	1528.1	1550.0	1530.6	1513.0	1524.7	1582.8
30°	2020.8	2039.3	1972.9	1872.0	1776.1	1694.5	1698.7	1681.9	1601.3	1618.1	1652.6
32.5°	2157.1	2168.9	2131.9	2076.3	1980.5	1885.4	1851.0	1836.7	1776.1	1783.7	1750.0
35°	2270.6	2293.3	2260.5	2236.1	2208.4	2131.9	2036.8	2083.1	1985.5	1967.0	1879.6
37.5°	2374.9	2368.2	2406.9	2381.6	2375.7	2321.9	2217.6	2226.9	2161.3	2157.1	2056.2
40°	2468.3	2469.9	2522.9	2534.7	2511.1	2415.3	2263.9	2337.1	2390.0	2395.1	2265.6
42.5°	2545.6	2568.3	2613.7	2708.8	2673.5	2513.7	2311.8	2391.7	2588.5	2619.6	2464.0
45°	2612.9	2659.2	2715.5	2800.4	2780.3	2653.3	2431.2	2504.4	2800.4	2882.0	2650.7
47.5°	2617.1	2677.7	2739.1	2865.2	2890.4	2728.1	2554.9	2682.7	2968.6	3057.0	2787.0
50°	2600.3	2632.2	2755.0	2892.1	2949.3	2850.1	2728.1	2832.4	3131.8	3187.3	2856.0
52.5°	2401.0	2425.4	2671.8	2917.3	3055.3	2988.0	2957.7	3041.0	3298.3	3339.5	2920.7
55°	2001.5	1997.3	2336.2	2790.4	3104.0	3192.4	3173.8	3203.3	3490.9	3527.9	2936.7
57.5°	1369.1	1445.7	1738.3	2323.6	2805.5	3144.4	3163.8	3115.0	3266.4	3280.7	2559.9
60°	738.4	770.4	1005.8	1550.8	2136.1	2562.4	2612.9	2524.6	2512.8	2472.5	1827.4
62.5°	293.5	309.5	443.2	767.8	1163.9	1557.5	1665.9	1629.9	1552.5	1446.5	946.1
65°	139.6	149.7	220.3	359.1	516.4	649.3	757.7	791.4	583.7	525.6	312.0
67.5°	95.0	102.6	160.6	205.2	184.2	192.6	250.6	233.0	137.1	116.9	86.6
70°	72.3	77.4	128.7	139.6	82.4	58.0	64.8	60.6	56.3	57.2	56.3
72.5°	51.3	55.5	94.2	82.4	36.2	26.9	34.5	41.2	41.2	41.2	40.4
75°	31.1	35.3	54.7	32.0	14.3	14.3	21.9	27.8	29.4	30.3	28.6
77.5°	16.0	20.2	18.5	9.3	9.3	10.9	16.0	19.3	21.0	21.0	20.2
80°	3.4	3.4	3.4	5.0	9.3	11.8	16.0	17.7	20.2	20.2	18.5
82.5°	0.0	0.8	2.5	5.0	8.4	10.9	15.1	17.7	20.2	21.0	19.3
85°	0.0	0.8	1.7	3.4	5.9	6.7	5.9	5.0	5.0	5.0	5.0
87.5°	0.0	0.0	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7	1.7
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°	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4	1209.4
2.5°	1221.1	1223.7	1219.4	1218.6	1215.2	1225.3	1200.9	1195.1	1210.2	1195.9	1199.3
5°	1237.1	1243.0	1235.4	1222.8	1204.3	1175.7	1151.3	1119.4	1104.2	1093.3	1091.6
7.5°	1248.9	1253.1	1245.5	1205.2	1149.6	1077.3	1023.5	984.0	952.9	943.6	928.5
10°	1296.8	1297.7	1259.8	1170.7	1062.2	967.2	884.7	824.2	793.1	773.7	765.3
12.5°	1328.8	1327.1	1250.6	1102.6	957.9	831.7	737.6	664.4	635.8	626.5	620.7
15°	1369.1	1359.9	1228.7	1032.7	823.3	687.1	602.2	551.7	549.2	543.3	549.2
17.5°	1401.1	1375.0	1196.7	905.8	694.7	566.0	510.5	513.9	520.6	526.5	527.3
20°	1453.2	1399.4	1123.6	794.7	575.2	485.3	484.4	499.6	516.4	523.1	529.8
22.5°	1492.8	1409.5	1045.4	676.2	477.7	452.5	466.8	489.5	502.1	508.8	518.9
25°	1507.1	1381.8	941.1	557.6	430.6	437.3	459.2	474.3	490.3	497.9	493.7
27.5°	1521.4	1367.5	816.6	459.2	405.4	427.2	445.7	460.9	465.9	476.0	482.7
30°	1555.8	1317.8	704.8	397.0	392.7	420.5	434.0	439.0	452.5	458.3	458.3
32.5°	1583.6	1298.5	586.2	367.5	391.1	423.9	425.5	425.5	427.2	423.0	421.3
35°	1640.8	1232.1	480.2	349.9	390.2	424.7	428.9	414.6	375.9	360.8	356.6
37.5°	1711.4	1189.2	402.0	345.7	396.1	434.8	441.5	387.7	337.2	312.9	308.6
40°	1797.1	1158.9	350.7	344.0	409.6	458.3	438.2	366.7	301.1	265.8	264.1
42.5°	1897.2	1131.1	316.2	343.1	426.4	482.7	434.8	349.0	264.1	240.5	243.9
45°	1977.1	1116.0	292.7	337.2	432.3	497.0	437.3	317.9	248.9	233.8	235.5
47.5°	2039.3	1084.0	273.3	327.1	431.4	502.1	414.6	305.3	241.4	245.6	249.8
50°	2041.0	1041.2	248.9	305.3	418.8	492.8	388.5	293.5	239.7	257.3	265.8
52.5°	2018.3	980.6	222.9	274.2	389.4	460.9	365.0	288.5	232.1	230.4	240.5
55°	1937.6	867.1	179.1	222.0	328.8	380.1	344.0	279.2	209.4	190.1	191.7
57.5°	1565.9	621.5	132.0	158.9	233.0	278.4	310.3	275.0	188.4	161.5	162.3
60°	969.7	352.4	96.7	108.5	143.8	169.0	251.5	255.7	168.2	136.2	134.6
62.5°	497.9	174.1	74.8	76.5	88.3	99.2	172.4	214.5	152.2	129.5	129.5
65°	166.5	85.8	65.6	58.9	58.9	61.4	104.3	148.9	128.7	108.5	108.5
67.5°	71.5	63.9	57.2	51.3	47.1	44.6	58.9	86.6	95.9	82.4	79.1
70°	55.5	53.8	49.6	42.9	37.0	33.6	34.5	44.6	54.7	53.0	51.3
72.5°	41.2	41.2	39.5	33.6	28.6	24.4	22.7	23.5	26.1	26.9	27.8
75°	28.6	29.4	29.4	26.1	21.0	17.7	15.1	12.6	10.1	8.4	7.6
77.5°	19.3	20.2	21.9	19.3	16.0	11.8	9.3	6.7	4.2	1.7	1.7
80°	16.8	19.3	21.0	19.3	16.8	12.6	9.3	5.0	2.5	0.0	0.0
82.5°	17.7	19.3	21.9	18.5	16.0	11.8	9.3	5.9	2.5	0.8	0.0
85°	4.2	4.2	5.0	5.9	7.6	8.4	6.7	4.2	2.5	0.8	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	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)