

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: P647794

Luminaire Tested: **GALN-SA2A-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647794
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-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 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: 4379.3 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

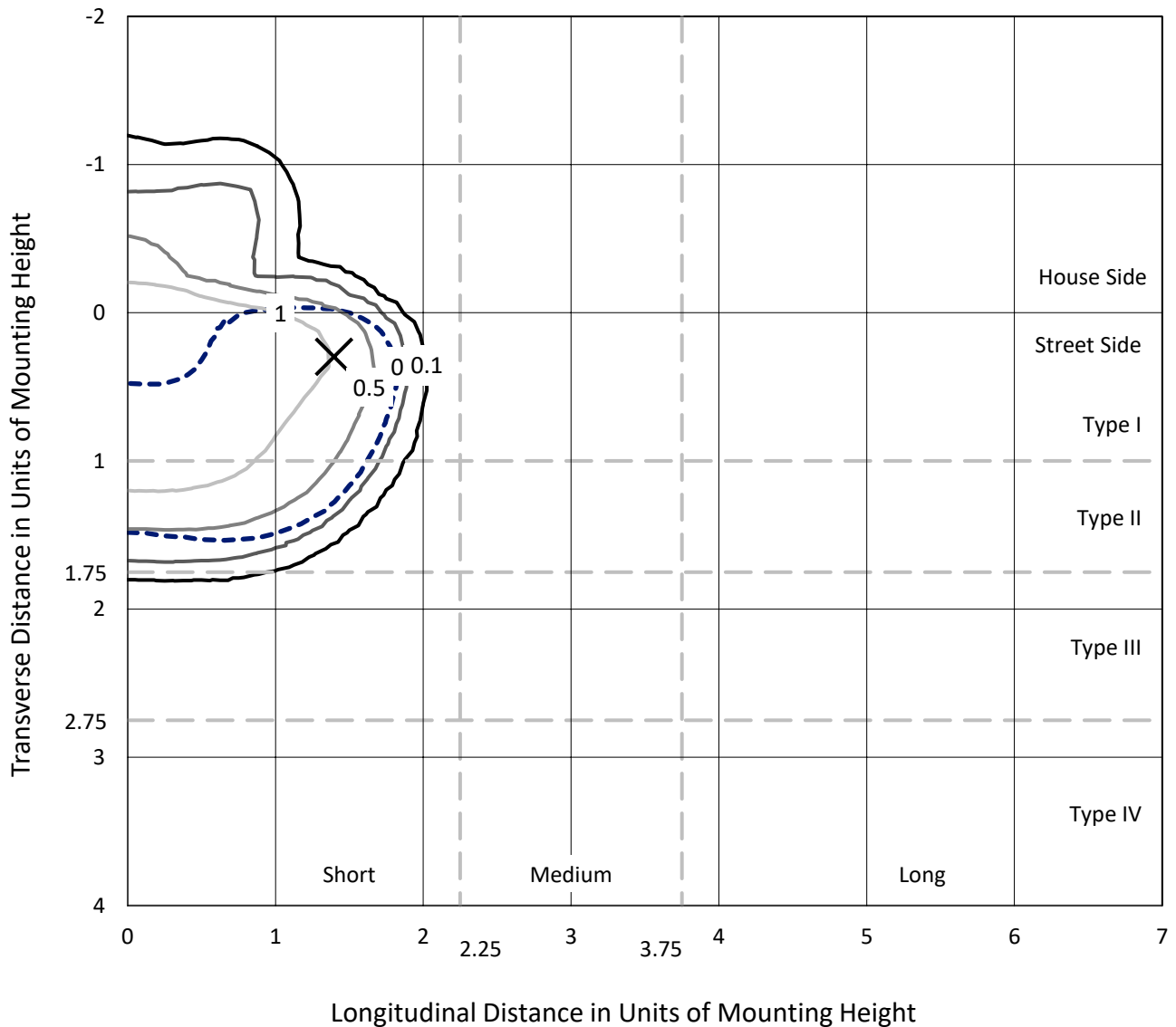
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

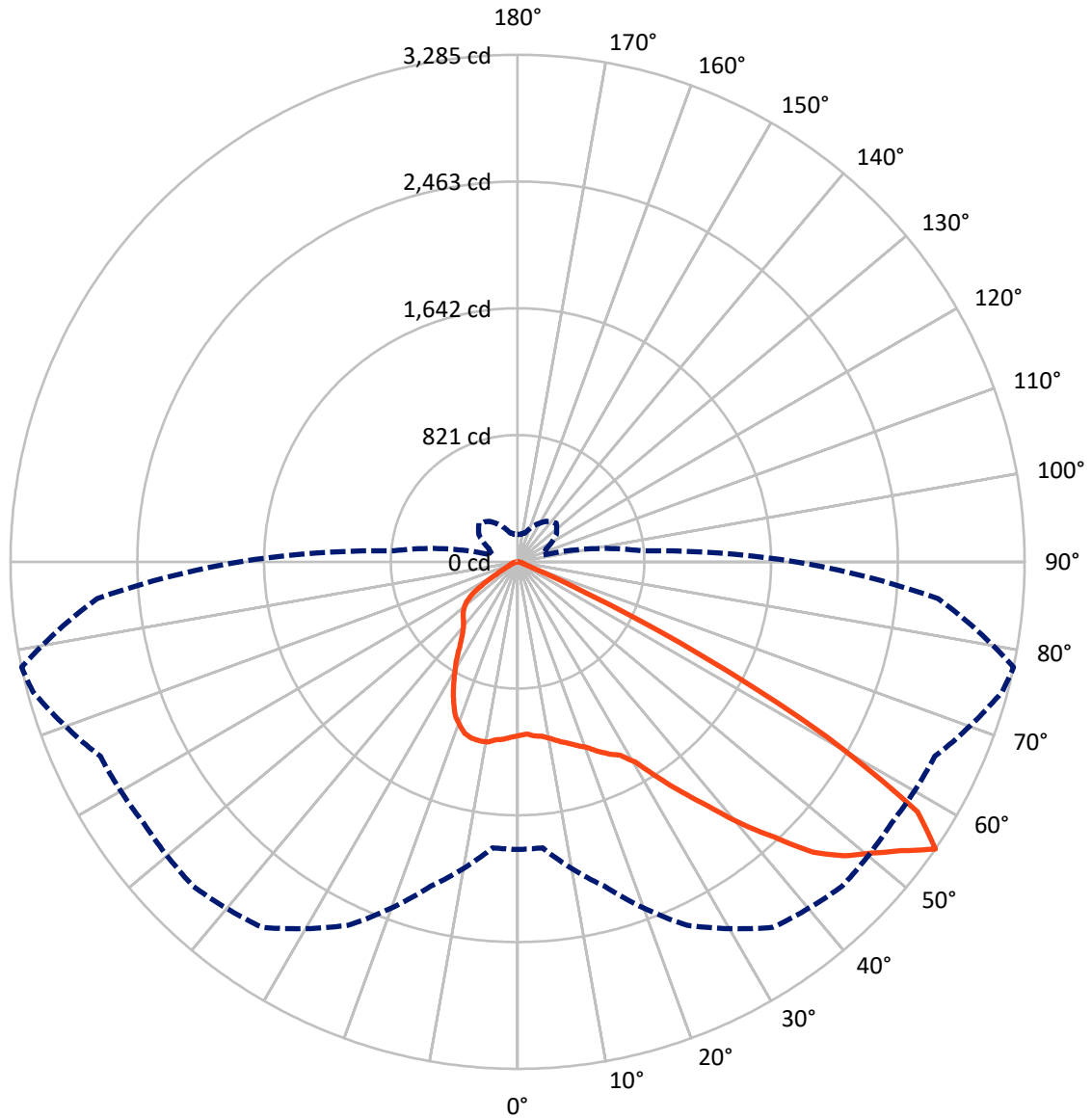
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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
House Side	Lumens	813.4	0.0	813.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3565.9	0.0	3565.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	4379.3	0.0	4379.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	2.3
10°-20°	265.7	6.1
20°-30°	465.7	10.6
30°-40°	767.9	17.5
40°-50°	1117.4	25.5
50°-60°	1266.2	28.9
60°-70°	362.0	8.3
70°-80°	28.1	0.6
80°-90°	5.9	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°	4379.3	100.0
0°-180°	4379.3	100.0

Coefficient of Utilization

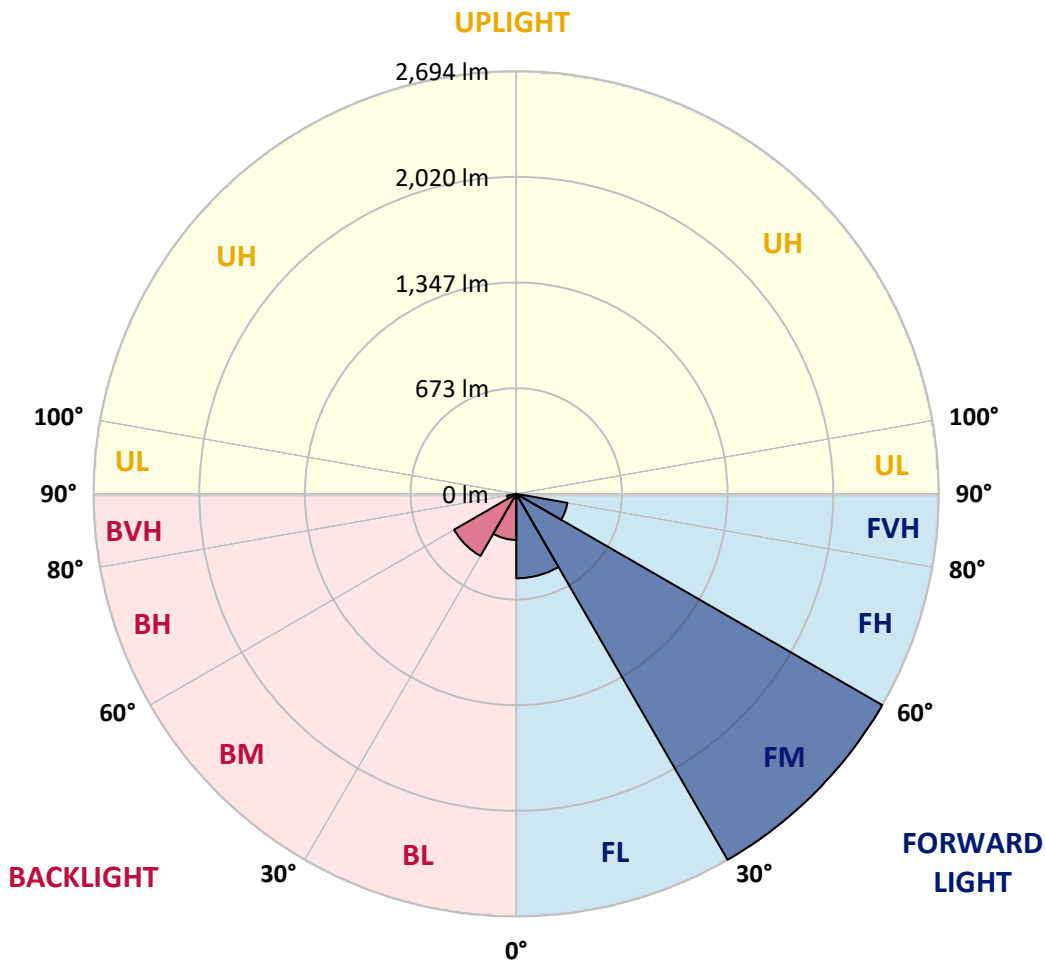


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	538.4	12.3			
FM (30°-60°)	2693.9	61.5			
FH (60°-80°)	330.8	7.6			G0/660
FVH (80°-90°)	2.9	0.1			G0/10
BL (0°-30°)	293.5	6.7	B1/500		
BM (30°-60°)	457.6	10.4	B1/1000		
BH (60°-80°)	59.4	1.4	B0/110		G0/110
BVH (80°-90°)	3.0	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°	1126.0	1126.0	1126.0	1126.0	1126.0	1126.0	1126.0	1126.0	1126.0	1126.0	1126.0
2.5°	1058.6	1068.8	1070.4	1082.9	1082.1	1103.2	1109.5	1110.3	1124.4	1117.3	1135.4
5°	1028.9	1023.4	1021.0	1043.0	1049.2	1068.0	1083.7	1093.1	1122.0	1132.2	1151.0
7.5°	1002.2	1002.2	1003.8	1023.4	1021.0	1045.3	1061.7	1090.7	1133.0	1141.6	1164.3
10°	976.4	967.0	978.8	999.1	1016.3	1027.3	1061.7	1089.2	1138.5	1163.5	1194.9
12.5°	963.1	967.8	969.4	984.2	1003.0	1035.9	1054.7	1100.1	1177.6	1192.5	1226.2
15°	1046.9	1037.5	1014.8	1001.5	1017.1	1032.8	1079.8	1126.0	1198.0	1219.1	1256.7
17.5°	1144.0	1136.1	1117.3	1081.3	1046.1	1075.1	1111.9	1154.1	1219.9	1251.2	1306.8
20°	1270.8	1258.3	1239.5	1169.0	1138.5	1107.2	1146.3	1196.4	1255.9	1284.1	1341.3
22.5°	1421.9	1421.9	1379.6	1294.3	1230.9	1201.1	1217.6	1246.5	1295.9	1334.2	1390.6
25°	1579.2	1574.5	1536.2	1447.8	1340.5	1305.3	1324.1	1344.4	1357.7	1378.9	1416.4
27.5°	1759.3	1731.9	1683.4	1585.5	1490.8	1422.7	1443.1	1425.1	1408.6	1419.6	1473.6
30°	1881.5	1898.7	1836.8	1742.9	1653.6	1577.7	1581.6	1565.9	1490.8	1506.5	1538.6
32.5°	2008.3	2019.3	1984.8	1933.1	1843.9	1755.4	1723.3	1710.0	1653.6	1660.7	1629.3
35°	2114.0	2135.2	2104.6	2081.9	2056.1	1984.8	1896.3	1939.4	1848.6	1831.4	1749.9
37.5°	2211.1	2204.8	2240.9	2217.4	2211.9	2161.8	2064.7	2073.3	2012.2	2008.3	1914.4
40°	2298.0	2299.6	2348.9	2359.9	2338.0	2248.7	2107.8	2175.9	2225.2	2229.9	2109.3
42.5°	2370.1	2391.2	2433.5	2522.0	2489.1	2340.3	2152.4	2226.8	2410.0	2439.0	2294.1
45°	2432.7	2475.8	2528.2	2607.3	2588.5	2470.3	2263.6	2331.7	2607.3	2683.3	2467.9
47.5°	2436.6	2493.0	2550.2	2667.6	2691.1	2540.0	2378.7	2497.7	2763.9	2846.1	2594.8
50°	2421.0	2450.7	2565.0	2692.7	2745.9	2653.5	2540.0	2637.1	2915.8	2967.5	2659.0
52.5°	2235.4	2258.1	2487.5	2716.1	2844.6	2781.9	2753.7	2831.2	3070.8	3109.2	2719.3
55°	1863.5	1859.5	2175.1	2597.9	2890.0	2972.2	2955.0	2982.4	3250.2	3284.6	2734.2
57.5°	1274.7	1346.0	1618.4	2163.4	2612.0	2927.6	2945.6	2900.2	3041.1	3054.4	2383.4
60°	687.5	717.2	936.5	1443.9	1988.7	2385.7	2432.7	2350.5	2339.5	2301.9	1701.4
62.5°	273.3	288.1	412.6	714.9	1083.7	1450.1	1551.0	1517.5	1445.4	1346.8	880.9
65°	130.0	139.4	205.1	334.3	480.8	604.5	705.5	736.8	543.4	489.4	290.5
67.5°	88.5	95.5	149.6	191.1	171.5	179.3	233.3	216.9	127.6	108.8	80.6
70°	67.3	72.0	119.8	130.0	76.7	54.0	60.3	56.4	52.5	53.2	52.5
72.5°	47.8	51.7	87.7	76.7	33.7	25.1	32.1	38.4	38.4	38.4	37.6
75°	29.0	32.9	50.9	29.8	13.3	13.3	20.4	25.8	27.4	28.2	26.6
77.5°	14.9	18.8	17.2	8.6	8.6	10.2	14.9	18.0	19.6	19.6	18.8
80°	3.1	3.1	3.1	4.7	8.6	11.0	14.9	16.4	18.8	18.8	17.2
82.5°	0.0	0.8	2.3	4.7	7.8	10.2	14.1	16.4	18.8	19.6	18.0
85°	0.0	0.8	1.6	3.1	5.5	6.3	5.5	4.7	4.7	4.7	4.7
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°	1126.0	1126.0	1126.0	1126.0	1126.0	1126.0	1126.0	1126.0	1126.0	1126.0	1126.0
2.5°	1136.9	1139.3	1135.4	1134.6	1131.4	1140.8	1118.1	1112.6	1126.7	1113.4	1116.6
5°	1151.8	1157.3	1150.2	1138.5	1121.3	1094.6	1071.9	1042.2	1028.1	1017.9	1016.3
7.5°	1162.8	1166.7	1159.6	1122.0	1070.4	1003.0	952.9	916.1	887.1	878.5	864.4
10°	1207.4	1208.2	1172.9	1089.9	988.9	900.4	823.7	767.3	738.4	720.4	712.5
12.5°	1237.1	1235.6	1164.3	1026.5	891.8	774.4	686.7	618.6	591.9	583.3	577.9
15°	1274.7	1266.1	1144.0	961.5	766.6	639.7	560.6	513.6	511.3	505.8	511.3
17.5°	1304.5	1280.2	1114.2	843.3	646.8	527.0	475.3	478.4	484.7	490.2	490.9
20°	1353.0	1302.9	1046.1	739.9	535.6	451.8	451.0	465.1	480.8	487.0	493.3
22.5°	1389.8	1312.3	973.3	629.5	444.7	421.3	434.6	455.7	467.5	473.7	483.1
25°	1403.1	1286.5	876.2	519.1	400.9	407.2	427.5	441.6	456.5	463.5	459.6
27.5°	1416.4	1273.2	760.3	427.5	377.4	397.8	415.0	429.1	433.8	443.2	449.4
30°	1448.6	1227.0	656.2	369.6	365.7	391.5	404.0	408.7	421.3	426.7	426.7
32.5°	1474.4	1209.0	545.8	342.2	364.1	394.6	396.2	396.2	397.8	393.8	392.3
35°	1527.6	1147.1	447.1	325.7	363.3	395.4	399.3	386.0	350.0	335.9	332.0
37.5°	1593.3	1107.2	374.3	321.8	368.8	404.8	411.1	361.0	314.0	291.3	287.4
40°	1673.2	1079.0	326.5	320.2	381.3	426.7	407.9	341.4	280.3	247.4	245.9
42.5°	1766.4	1053.1	294.4	319.5	397.0	449.4	404.8	324.9	245.9	223.9	227.1
45°	1840.8	1039.0	272.5	314.0	402.5	462.8	407.2	296.0	231.8	217.7	219.2
47.5°	1898.7	1009.3	254.5	304.6	401.7	467.5	386.0	284.2	224.7	228.6	232.6
50°	1900.3	969.4	231.8	284.2	389.9	458.8	361.7	273.3	223.2	239.6	247.4
52.5°	1879.1	913.0	207.5	255.3	362.5	429.1	339.8	268.6	216.1	214.5	223.9
55°	1804.0	807.3	166.8	206.7	306.2	353.9	320.2	260.0	195.0	177.0	178.5
57.5°	1457.9	578.6	122.9	148.0	216.9	259.2	288.9	256.0	175.4	150.3	151.1
60°	902.8	328.1	90.0	101.0	133.9	157.4	234.1	238.0	156.6	126.8	125.3
62.5°	463.5	162.1	69.7	71.3	82.2	92.4	160.5	199.7	141.7	120.6	120.6
65°	155.0	79.9	61.1	54.8	54.8	57.2	97.1	138.6	119.8	101.0	101.0
67.5°	66.6	59.5	53.2	47.8	43.8	41.5	54.8	80.6	89.3	76.7	73.6
70°	51.7	50.1	46.2	39.9	34.5	31.3	32.1	41.5	50.9	49.3	47.8
72.5°	38.4	38.4	36.8	31.3	26.6	22.7	21.1	21.9	24.3	25.1	25.8
75°	26.6	27.4	27.4	24.3	19.6	16.4	14.1	11.7	9.4	7.8	7.0
77.5°	18.0	18.8	20.4	18.0	14.9	11.0	8.6	6.3	3.9	1.6	1.6
80°	15.7	18.0	19.6	18.0	15.7	11.7	8.6	4.7	2.3	0.0	0.0
82.5°	16.4	18.0	20.4	17.2	14.9	11.0	8.6	5.5	2.3	0.8	0.0
85°	3.9	3.9	4.7	5.5	7.0	7.8	6.3	3.9	2.3	0.8	0.0
87.5°	1.6	1.6	1.6	1.6	1.6	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)