

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: P528113

Luminaire Tested: **GALN-SA3A-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6478 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

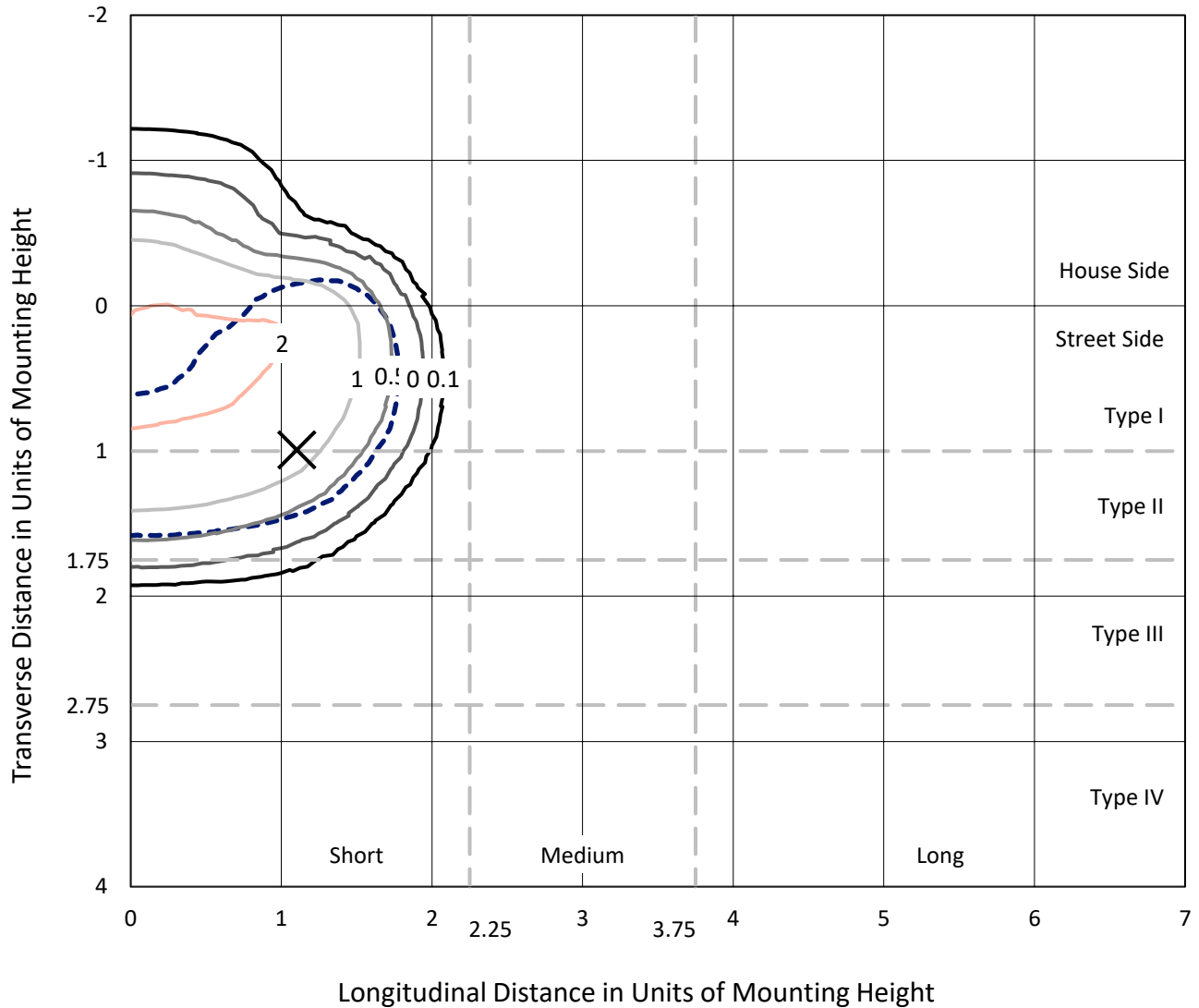
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

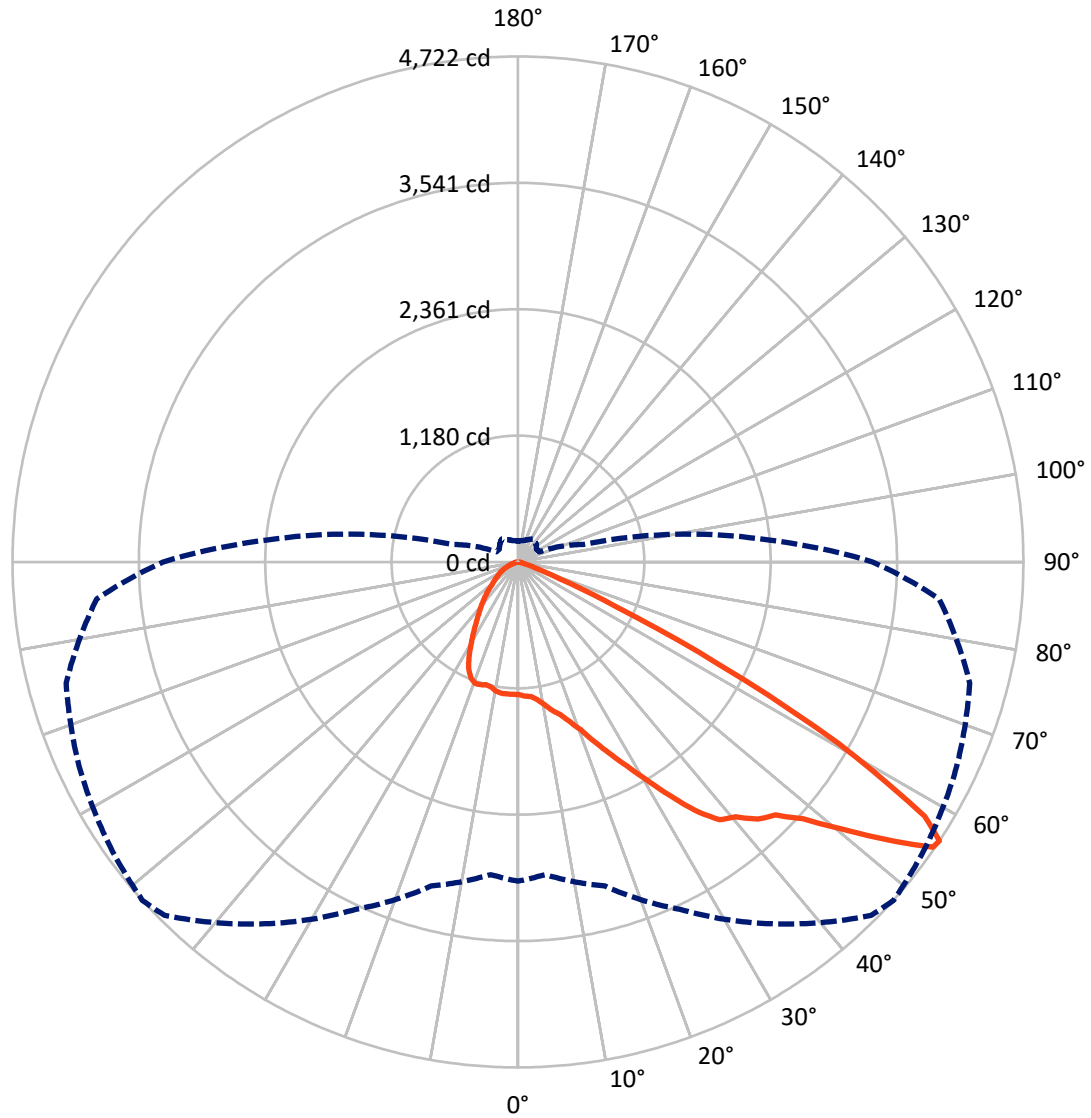
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1408.9	0.0	1408.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	5069.2	0.0	5069.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	6478.0	0.0	6478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	1.9
10°-20°	385.2	5.9
20°-30°	698.6	10.8
30°-40°	1097.4	16.9
40°-50°	1601.0	24.7
50°-60°	1928.8	29.8
60°-70°	564.7	8.7
70°-80°	71.6	1.1
80°-90°	10.1	0.2
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°	6478.0	100.0
0°-180°	6478.0	100.0

Coefficient of Utilization



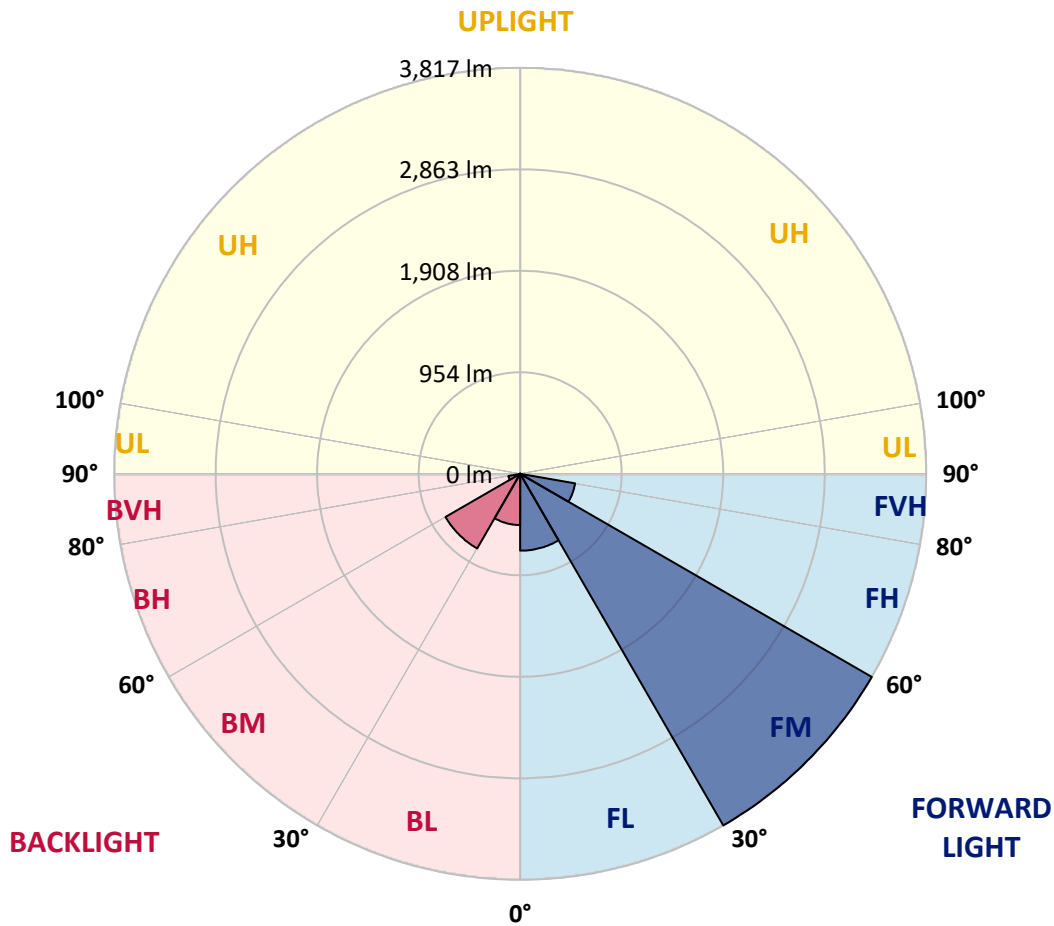
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.8	11.2			
FM (30°-60°)	3816.9	58.9			
FH (60°-80°)	524.4	8.1			G0/660
FVH (80°-90°)	5.0	0.1			G0/10
BL (0°-30°)	481.5	7.4	B1/500		
BM (30°-60°)	810.4	12.5	B1/1000		
BH (60°-80°)	111.9	1.7	B1/500		G1/500
BVH (80°-90°)	5.0	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3
2.5°	1259.7	1253.8	1253.8	1244.4	1255.0	1250.3	1253.8	1242.0	1253.8	1236.1	1250.3
5°	1265.6	1266.8	1262.1	1268.0	1268.0	1275.0	1263.2	1273.9	1279.8	1266.8	1260.9
7.5°	1296.3	1298.6	1297.5	1292.7	1302.2	1301.0	1299.8	1291.6	1293.9	1289.2	1282.1
10°	1356.4	1355.3	1361.1	1349.4	1342.3	1350.5	1352.9	1339.9	1330.5	1326.9	1304.5
12.5°	1443.7	1429.6	1421.3	1409.5	1413.0	1401.3	1422.5	1400.1	1395.4	1374.1	1351.7
15°	1514.5	1512.1	1513.3	1494.4	1473.2	1477.9	1477.9	1466.1	1459.0	1433.1	1401.3
17.5°	1659.6	1610.0	1620.6	1597.0	1579.4	1578.2	1567.6	1569.9	1551.0	1496.8	1448.4
20°	1772.8	1751.6	1735.1	1694.9	1667.8	1676.1	1671.4	1659.6	1653.7	1582.9	1514.5
22.5°	1874.2	1881.3	1854.2	1843.6	1805.8	1809.4	1818.8	1808.2	1763.4	1690.2	1588.8
25°	2017.0	2008.7	1972.1	1959.2	1923.8	1936.7	1973.3	1965.1	1936.7	1804.6	1646.6
27.5°	2185.6	2157.3	2164.4	2105.4	2071.2	2107.8	2151.4	2192.7	2112.5	1939.1	1715.0
30°	2304.8	2275.3	2272.9	2270.5	2262.3	2304.8	2355.5	2393.2	2328.3	2073.6	1828.2
32.5°	2363.7	2370.8	2390.9	2383.8	2455.7	2543.0	2596.1	2650.3	2569.0	2293.0	1978.0
35°	2520.6	2475.8	2520.6	2525.3	2599.6	2784.8	2852.0	2981.8	2961.7	2603.2	2160.9
37.5°	2612.6	2609.1	2615.0	2659.8	2731.7	2960.6	3056.1	3156.4	3118.6	2789.5	2388.5
40°	2764.8	2774.2	2773.0	2807.2	2886.2	3092.7	3131.6	3213.0	3216.5	3047.8	2723.5
42.5°	3008.9	2971.2	2946.4	2981.8	3092.7	3207.1	3284.9	3268.4	3385.2	3361.6	3154.0
45°	3228.3	3250.7	3214.2	3273.1	3313.2	3374.6	3372.2	3407.6	3556.2	3668.3	3478.4
47.5°	3433.5	3447.7	3465.4	3505.5	3592.8	3602.2	3582.2	3566.8	3772.1	3887.6	3729.6
50°	3556.2	3569.2	3651.7	3723.7	3886.5	3907.7	3919.5	3880.6	4019.8	4032.7	3966.7
52.5°	3523.2	3537.3	3652.9	3890.0	4149.5	4344.1	4308.7	4242.7	4234.4	4285.1	4186.1
55°	3230.7	3217.7	3376.9	3746.1	4232.1	4699.1	4703.9	4634.3	4501.0	4466.8	4153.0
56°	2981.8	2931.1	3133.9	3579.8	4125.9	4668.5	4721.6	4647.2	4522.2	4368.9	3949.0
57.5°	2442.8	2491.1	2692.8	3062.0	3759.1	4447.9	4478.6	4460.9	4366.5	4109.4	3474.8
60°	1347.0	1431.9	1610.0	2061.8	2676.3	3413.5	3438.3	3582.2	3599.8	3146.9	2390.9
62.5°	572.1	562.6	747.8	1080.4	1523.9	2060.6	2106.6	2254.0	2281.2	1814.1	1199.6
65°	232.4	245.3	338.5	543.8	805.6	938.9	1003.8	1052.1	1141.8	749.0	442.3
67.5°	153.3	152.2	199.3	310.2	434.1	418.7	418.7	442.3	409.3	305.5	191.1
70°	109.7	113.2	142.7	214.7	270.1	200.5	192.3	184.0	208.8	201.7	154.5
72.5°	71.9	76.7	95.5	128.6	140.4	109.7	109.7	132.1	172.2	162.8	126.2
75°	47.2	48.4	59.0	74.3	69.6	56.6	62.5	88.5	125.0	120.3	89.6
77.5°	31.8	33.0	40.1	48.4	38.9	31.8	34.2	44.8	61.3	61.3	47.2
80°	11.8	13.0	16.5	15.3	17.7	22.4	24.8	30.7	36.6	36.6	31.8
82.5°	0.0	1.2	3.5	8.3	13.0	17.7	20.1	23.6	27.1	30.7	29.5
85°	0.0	1.2	3.5	5.9	9.4	10.6	11.8	8.3	7.1	7.1	5.9
87.5°	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.4	1.2	1.2
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°	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3
2.5°	1237.3	1236.1	1236.1	1232.6	1239.7	1236.1	1238.5	1237.3	1222.0	1233.8	1225.5
5°	1250.3	1258.5	1245.6	1243.2	1233.8	1237.3	1237.3	1225.5	1236.1	1234.9	1232.6
7.5°	1283.3	1269.1	1255.0	1240.8	1238.5	1234.9	1222.0	1217.2	1225.5	1216.1	1230.2
10°	1297.5	1299.8	1278.6	1259.7	1242.0	1217.2	1199.6	1188.9	1176.0	1190.1	1198.4
12.5°	1362.3	1338.7	1302.2	1272.7	1212.5	1187.8	1170.1	1165.4	1187.8	1192.5	1184.2
15°	1384.7	1381.2	1334.0	1268.0	1205.5	1176.0	1179.5	1170.1	1172.4	1160.6	1163.0
17.5°	1430.7	1390.6	1335.2	1252.6	1204.3	1197.2	1176.0	1138.2	1117.0	1107.6	1115.8
20°	1481.5	1442.5	1362.3	1258.5	1214.9	1196.0	1126.4	1080.4	1036.8	1013.2	1014.4
22.5°	1526.3	1477.9	1350.5	1260.9	1224.3	1146.5	1062.7	971.9	917.7	881.1	882.3
25°	1580.5	1512.1	1355.3	1265.6	1199.6	1067.5	947.1	858.7	793.8	769.0	777.3
27.5°	1611.2	1533.4	1381.2	1276.2	1134.7	955.4	825.7	743.1	705.3	693.5	692.4
30°	1703.2	1580.5	1413.0	1255.0	1026.2	835.1	714.8	664.1	627.5	616.9	619.2
32.5°	1840.0	1666.6	1454.3	1199.6	915.3	727.8	642.8	605.1	570.9	550.8	548.5
35°	1954.4	1814.1	1498.0	1113.5	786.7	645.2	592.1	544.9	493.0	470.6	464.7
37.5°	2172.6	1980.4	1488.5	983.7	664.1	583.9	537.9	480.1	435.2	404.6	401.0
40°	2462.8	2175.0	1442.5	825.7	573.2	529.6	480.1	424.6	369.2	343.2	340.9
42.5°	2815.5	2413.3	1358.8	665.2	482.4	475.3	430.5	366.8	317.3	298.4	299.6
45°	3102.1	2617.3	1273.9	534.3	415.2	422.3	383.3	323.2	289.0	273.6	273.6
47.5°	3356.9	2755.3	1181.9	441.1	352.7	369.2	335.0	299.6	270.1	258.3	256.0
50°	3602.2	2895.7	1089.9	357.4	300.8	317.3	313.7	285.4	261.9	247.7	248.9
52.5°	3755.5	2918.1	973.1	292.5	263.0	281.9	293.7	267.7	241.8	233.5	231.2
55°	3568.0	2629.1	754.9	240.6	222.9	247.7	270.1	240.6	220.6	206.4	205.2
56°	3315.6	2350.8	631.0	221.7	211.1	238.3	261.9	230.0	207.6	199.3	193.4
57.5°	2807.2	1923.8	465.9	197.0	195.8	221.7	248.9	219.4	193.4	186.4	186.4
60°	1750.4	1082.8	281.9	165.1	169.8	197.0	224.1	195.8	172.2	172.2	175.7
62.5°	797.3	450.6	171.0	140.4	146.3	169.8	199.3	176.9	164.0	176.9	179.3
65°	271.3	194.6	123.8	112.1	115.6	140.4	171.0	179.3	178.1	186.4	191.1
67.5°	152.2	125.0	103.8	93.2	90.8	103.8	140.4	179.3	172.2	168.7	171.0
70°	128.6	106.2	92.0	82.6	79.0	83.7	108.5	135.6	121.5	118.0	115.6
72.5°	103.8	88.5	80.2	74.3	63.7	54.3	49.5	51.9	57.8	61.3	67.2
75°	73.1	67.2	67.2	60.2	46.0	34.2	27.1	22.4	15.3	10.6	11.8
77.5°	41.3	41.3	42.5	36.6	29.5	22.4	16.5	11.8	5.9	2.4	1.2
80°	28.3	30.7	33.0	29.5	24.8	20.1	14.2	8.3	3.5	0.0	0.0
82.5°	28.3	31.8	34.2	29.5	24.8	18.9	14.2	8.3	3.5	1.2	0.0
85°	5.9	7.1	8.3	9.4	14.2	14.2	10.6	7.1	3.5	1.2	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	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)