

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: P646811

Luminaire Tested: **GALN-SA2C-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8007.7 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

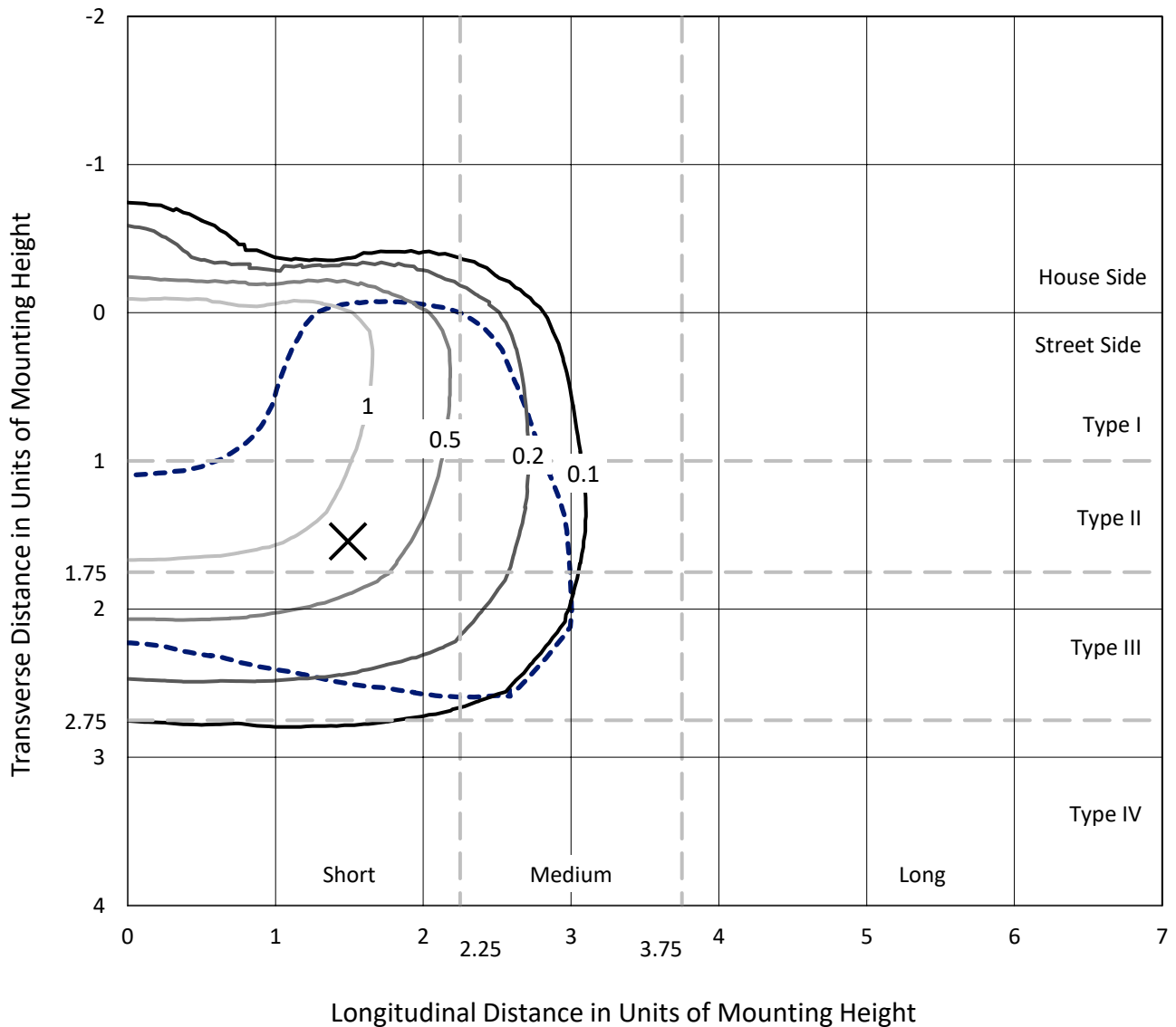
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

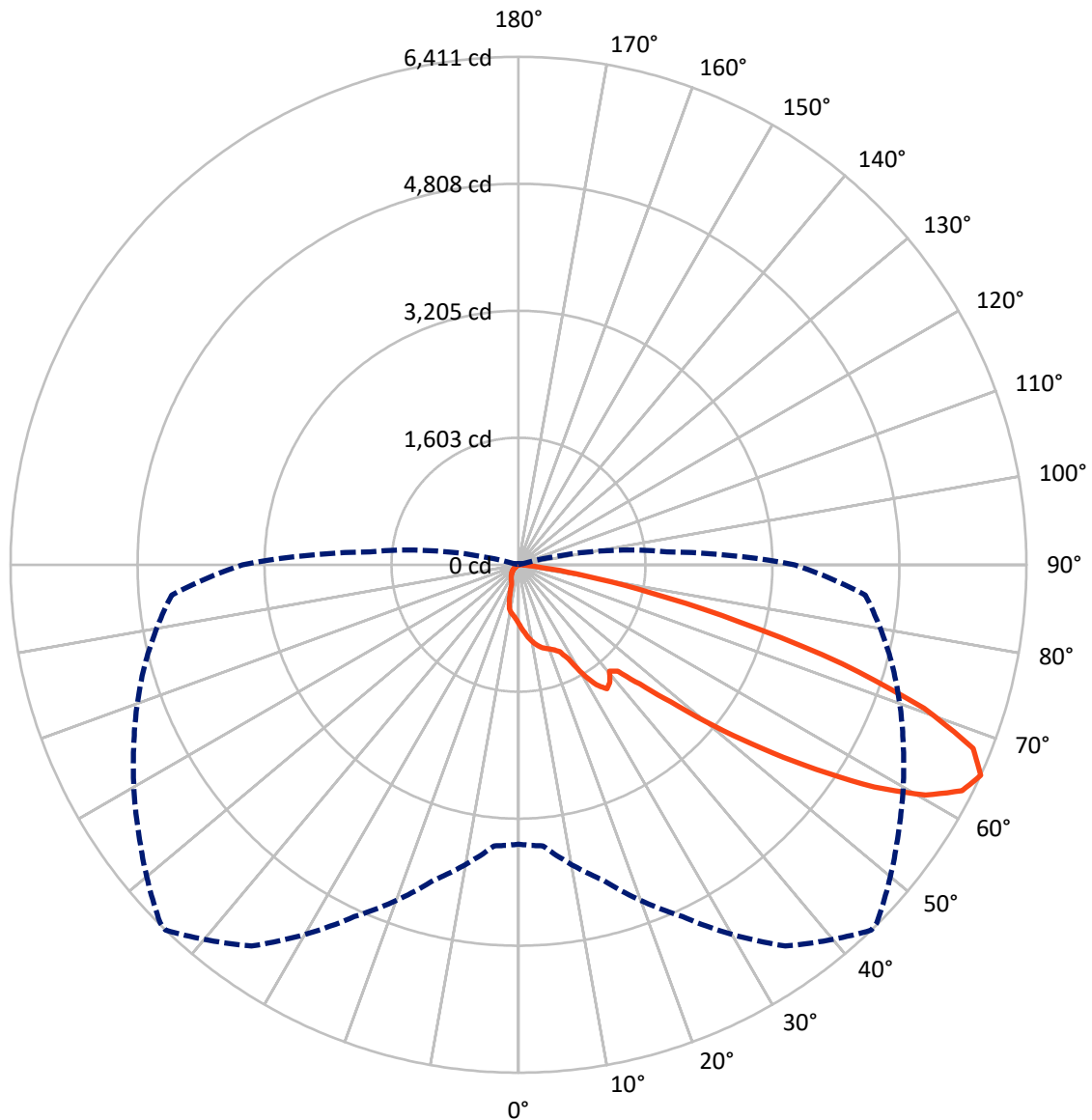
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	737.8	0.0	737.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	7269.9	0.0	7269.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	8007.7	0.0	8007.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	0.9
10°-20°	223.1	2.8
20°-30°	378.3	4.7
30°-40°	629.0	7.9
40°-50°	1098.2	13.7
50°-60°	2145.5	26.8
60°-70°	2489.3	31.1
70°-80°	906.5	11.3
80°-90°	63.9	0.8
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°	8007.7	100.0
0°-180°	8007.7	100.0

Coefficient of Utilization



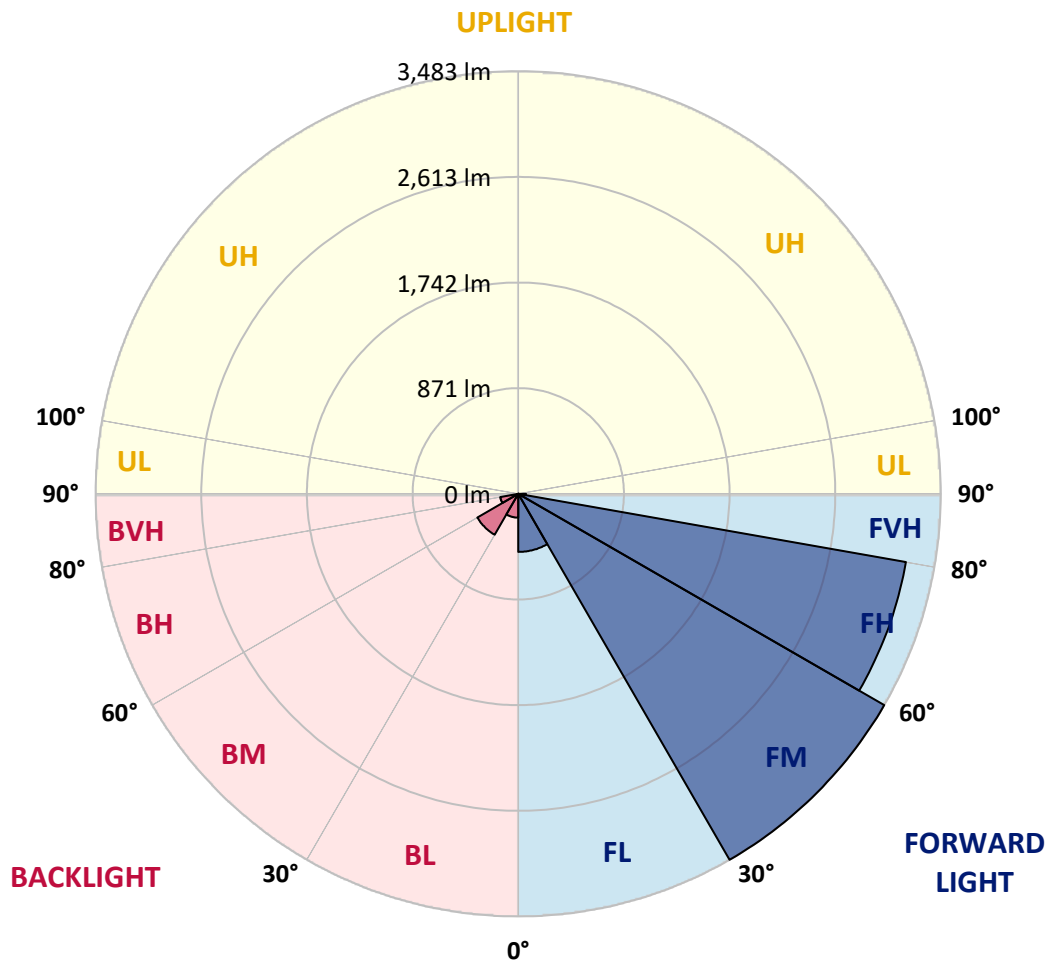
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	478.9	6.0			
FM (30°-60°)	3483.4	43.5			
FH (60°-80°)	3244.6	40.5			G2/5000
FVH (80°-90°)	63.0	0.8			G1/100
BL (0°-30°)	196.6	2.5	B1/500		
BM (30°-60°)	389.3	4.9	B1/1000		
BH (60°-80°)	151.1	1.9	B1/500		G1/500
BVH (80°-90°)	0.9	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	745.3	745.3	745.3	745.3	745.3	745.3	745.3	745.3	745.3	745.3	745.3
2.5°	838.9	835.2	833.4	823.6	816.3	807.1	807.1	795.4	782.0	767.3	753.9
5°	932.6	926.4	918.5	909.8	892.8	868.3	868.3	843.8	815.7	790.6	763.0
7.5°	1022.4	1017.0	1003.5	987.0	958.9	933.1	931.3	895.8	862.2	824.2	785.0
10°	1101.4	1097.1	1085.5	1053.7	1024.3	990.7	990.0	950.2	911.1	864.6	816.3
12.5°	1156.5	1157.1	1141.8	1111.2	1073.3	1041.5	1039.0	999.8	958.9	908.7	849.3
15°	1195.6	1195.6	1179.7	1145.5	1111.2	1083.0	1080.6	1046.3	1004.1	949.6	885.4
17.5°	1206.7	1210.3	1193.2	1162.6	1135.0	1110.6	1110.0	1081.2	1047.6	995.0	922.1
20°	1202.4	1206.1	1192.6	1168.7	1149.8	1135.7	1133.9	1122.2	1091.0	1041.5	961.3
22.5°	1193.2	1196.9	1187.0	1173.0	1163.9	1168.1	1165.0	1174.8	1158.3	1098.3	1007.8
25°	1195.0	1198.7	1191.3	1183.4	1191.3	1217.6	1225.6	1267.8	1253.1	1170.5	1058.0
27.5°	1252.6	1259.8	1249.5	1253.1	1281.3	1342.5	1357.8	1430.6	1365.7	1262.4	1136.3
30°	1380.4	1375.5	1355.9	1373.7	1471.6	1601.3	1597.0	1585.4	1483.9	1368.2	1229.3
32.5°	1496.7	1492.4	1491.1	1567.6	1745.1	1808.1	1805.0	1692.5	1589.7	1489.3	1321.1
35°	1543.8	1527.2	1523.6	1709.0	2005.8	1922.6	1903.6	1736.5	1718.2	1621.5	1414.7
37.5°	1685.7	1674.1	1617.2	1732.2	1901.8	1874.2	1859.5	1812.4	1855.2	1738.4	1520.5
40°	1978.2	1945.8	1894.4	1781.8	1754.3	1765.9	1780.6	1909.7	2017.4	1898.1	1661.9
42.5°	2341.7	2334.4	2238.9	2029.0	1822.8	1838.7	1857.7	2112.8	2250.5	2138.5	1892.6
45°	2778.0	2788.4	2650.7	2402.9	2132.4	2145.9	2173.5	2412.7	2566.3	2512.4	2255.4
47.5°	3174.5	3166.5	3120.0	2862.4	2612.8	2582.8	2627.4	2797.6	3003.1	3011.7	2705.8
50°	3573.5	3615.7	3546.5	3445.5	3260.2	3197.1	3180.6	3263.9	3577.1	3536.1	3246.7
52.5°	4146.8	4168.8	4039.1	4013.4	4055.6	3851.3	3834.7	3854.9	4135.2	3994.4	3651.8
55°	4507.2	4494.3	4446.0	4646.7	4813.7	4558.5	4537.8	4456.4	4598.3	4318.1	4041.5
57.5°	4621.0	4639.4	4751.9	5114.8	5510.0	5293.5	5255.5	5024.2	4932.4	4619.8	4400.1
60°	4570.2	4603.9	4846.8	5386.5	5934.7	5902.3	5869.8	5481.3	5172.3	4871.9	4651.6
62.5°	4208.5	4255.7	4644.2	5338.1	6078.5	6281.1	6240.7	5766.5	5332.0	4994.2	4695.7
65°	3526.9	3561.8	4119.8	4899.4	5874.1	6410.7	6396.1	5855.8	5357.1	4882.2	4394.0
67.5°	2514.3	2633.0	3150.0	4129.0	5269.6	6189.3	6214.4	5748.7	5121.5	4398.3	3638.9
70°	1580.5	1661.3	2032.1	2956.1	4224.5	5429.9	5512.6	5258.5	4444.8	3428.4	2435.9
72.5°	753.9	813.9	1078.1	1871.1	2981.7	4272.2	4337.7	4316.9	3437.0	2160.0	1256.8
75°	335.9	358.5	514.6	955.2	1925.0	2871.6	3041.1	3069.2	2147.8	1056.7	488.9
77.5°	171.3	171.9	241.1	462.6	961.3	1713.3	1747.0	1845.5	1164.4	465.7	170.1
80°	91.1	97.3	127.9	218.5	498.7	843.8	839.5	922.8	516.5	228.2	56.9
82.5°	41.0	45.3	72.2	114.4	243.5	320.0	345.1	377.6	221.5	145.6	25.1
85°	12.2	14.7	35.5	57.6	88.1	92.4	103.4	133.4	125.4	103.4	12.8
87.5°	1.8	1.8	14.7	15.9	12.8	16.5	17.1	18.9	40.4	38.0	6.7
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°	745.3	745.3	745.3	745.3	745.3	745.3	745.3	745.3	745.3	745.3	745.3
2.5°	746.5	742.2	726.9	714.1	703.1	696.3	688.4	683.5	681.1	679.2	679.8
5°	749.6	739.2	712.8	692.0	676.1	659.0	647.4	640.7	637.6	632.7	632.7
7.5°	766.7	750.2	713.5	681.7	654.1	630.9	608.9	600.9	595.4	594.1	592.9
10°	791.1	770.4	720.2	676.1	637.0	605.2	573.9	546.5	525.0	512.2	510.3
12.5°	821.8	791.8	730.6	672.4	622.3	566.0	483.4	427.7	390.4	378.7	380.6
15°	849.9	817.5	741.0	669.4	595.4	469.3	375.7	312.0	293.1	291.3	291.9
17.5°	883.5	845.0	753.2	665.2	521.3	358.5	279.0	261.9	265.6	271.7	271.1
20°	918.5	874.4	767.9	639.4	416.1	269.8	246.6	248.4	253.9	259.4	260.7
22.5°	955.8	908.0	785.0	577.6	317.6	235.0	233.7	236.2	241.7	247.8	249.1
25°	1007.2	950.2	797.9	496.9	240.5	217.2	219.6	223.9	228.9	235.6	236.8
27.5°	1073.3	1007.2	804.6	391.6	208.0	201.3	201.9	208.0	214.2	220.3	220.3
30°	1158.9	1075.1	791.1	296.1	192.1	186.0	183.5	187.2	195.2	201.3	201.9
32.5°	1235.4	1139.3	755.7	226.4	180.5	171.9	165.8	166.5	169.5	173.2	173.7
35°	1311.9	1201.7	695.1	190.3	168.3	158.5	149.3	144.4	142.0	140.2	142.0
37.5°	1409.8	1279.5	614.3	173.2	157.9	145.6	132.8	122.4	113.8	108.3	109.5
40°	1535.9	1387.2	518.9	162.2	148.1	133.4	116.3	102.8	88.1	83.2	80.8
42.5°	1743.9	1550.5	418.5	153.0	138.3	120.5	99.1	80.8	67.3	62.4	63.7
45°	2072.4	1756.7	322.4	143.2	128.5	106.5	83.2	63.7	52.6	50.2	51.4
47.5°	2508.1	2023.5	248.4	132.2	116.3	91.1	65.5	50.2	43.5	42.8	42.2
50°	2918.1	2272.0	207.4	120.0	101.6	75.9	53.9	42.2	38.0	37.3	37.3
52.5°	3288.9	2450.0	168.9	105.9	85.7	62.4	45.3	37.3	33.7	31.8	31.8
55°	3618.7	2566.3	137.0	88.7	67.3	49.6	39.2	33.7	29.4	26.9	26.3
57.5°	3867.8	2580.4	102.8	71.0	50.2	38.5	33.7	29.4	24.5	21.5	20.2
60°	3974.2	2458.5	75.9	53.9	37.3	30.6	26.9	23.9	18.3	15.3	14.7
62.5°	3867.2	2221.8	56.3	41.0	28.7	22.6	18.9	17.8	12.8	9.2	8.5
65°	3483.5	1879.7	44.6	31.2	21.5	16.5	12.2	11.6	8.0	4.3	3.7
67.5°	2790.8	1472.2	35.5	23.3	15.3	11.0	8.0	7.4	4.3	1.3	1.3
70°	1814.8	941.1	28.7	17.1	9.8	7.4	4.9	3.7	2.4	0.6	0.0
72.5°	897.6	440.0	23.3	13.5	6.7	3.7	1.8	1.3	1.8	0.0	0.0
75°	348.2	156.7	17.1	9.2	3.7	1.8	1.3	0.0	0.6	0.0	0.0
77.5°	115.6	52.0	10.4	4.9	2.4	1.3	0.0	0.0	0.0	0.0	0.0
80°	42.8	20.2	5.5	3.1	1.3	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	17.1	8.0	3.7	2.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.5	4.9	2.4	1.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	3.7	2.4	1.8	1.3	0.6	0.0	0.0	0.0	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)