

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: P647306

Luminaire Tested: **GALN-SA2D-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647306
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-SA2D-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA 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: 8811.9 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

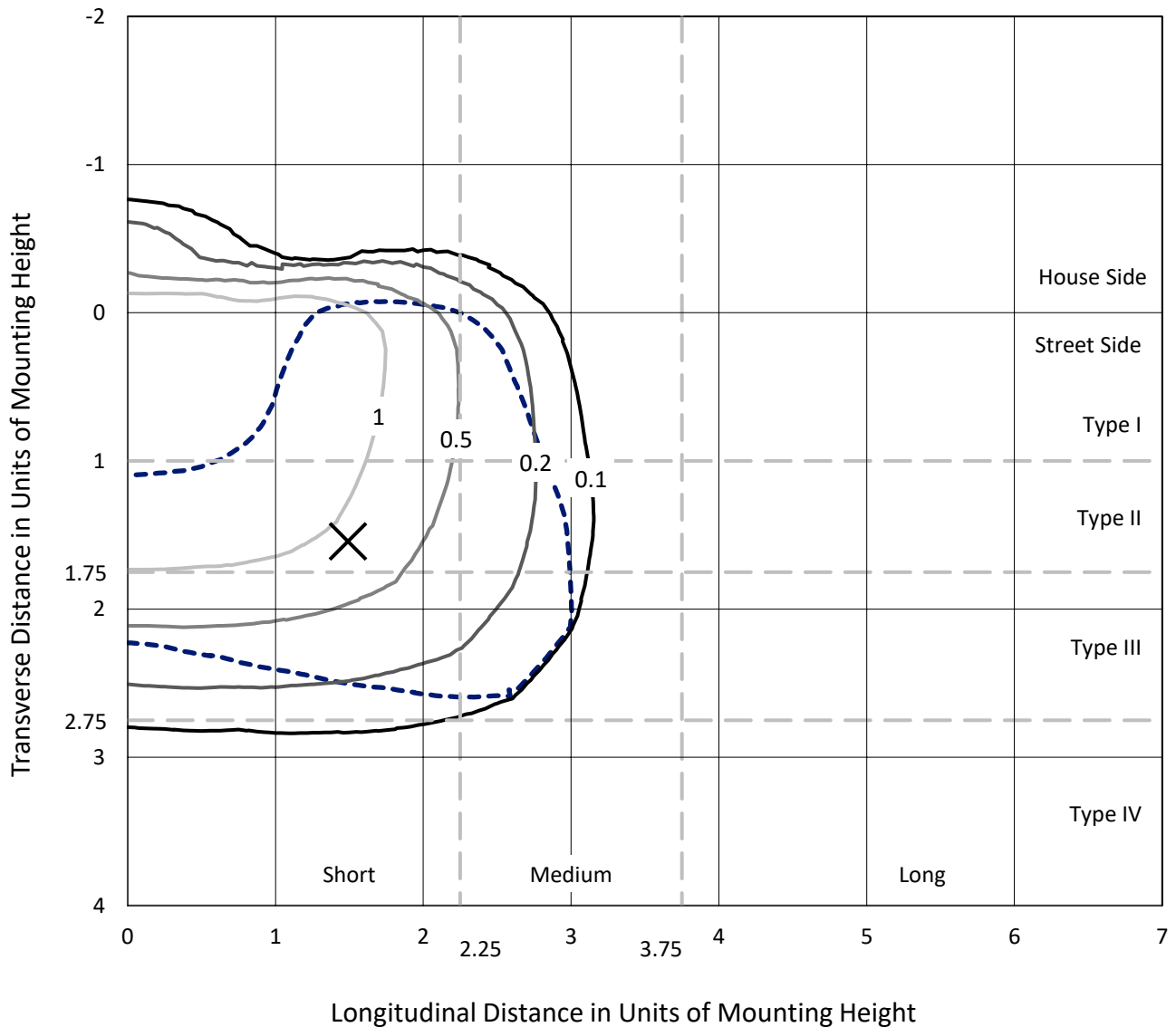
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647306
 CATALOG NUMBER: GALN-SA2D-835-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

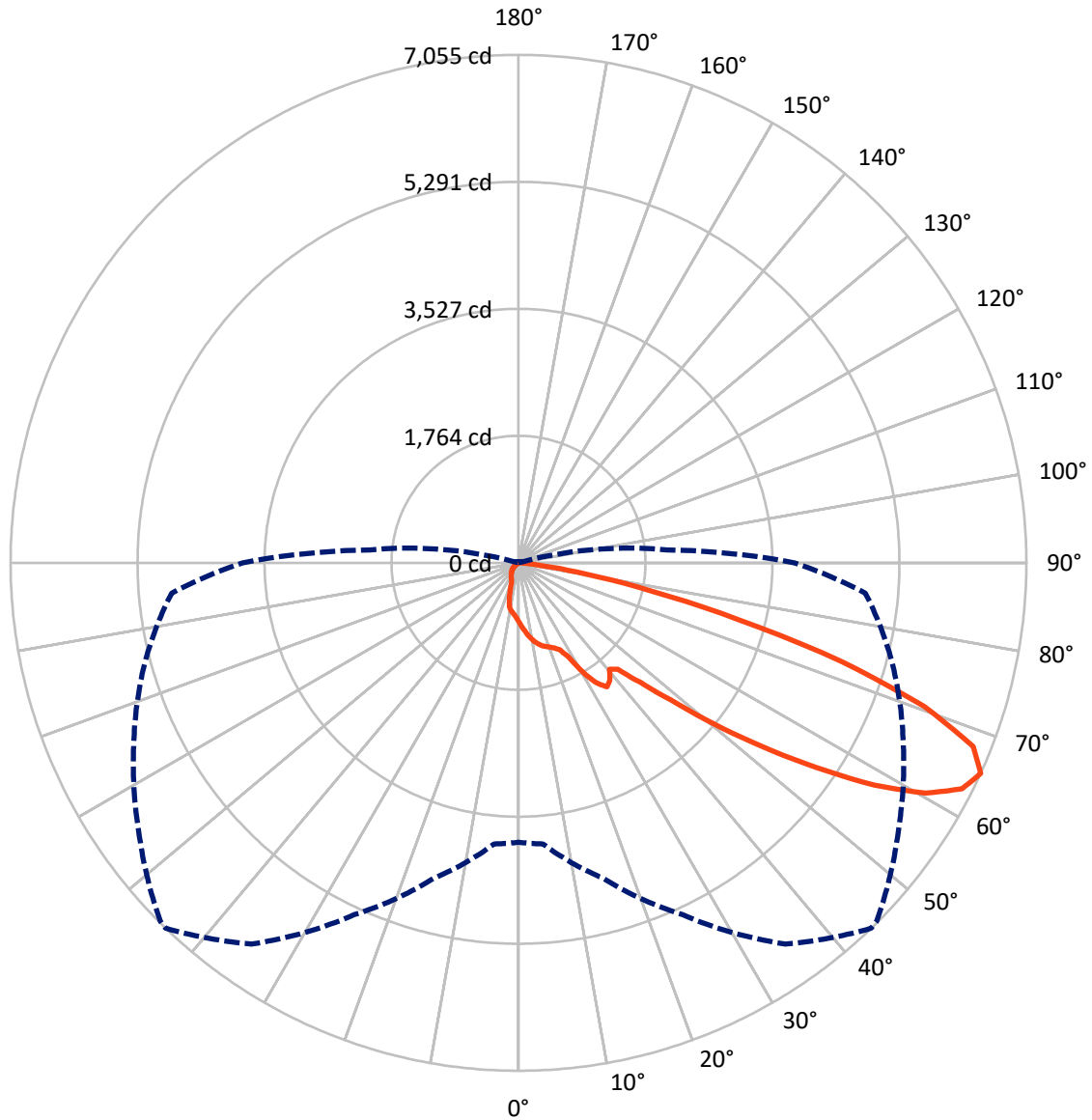
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

REPORT NUMBER: P647306
CATALOG NUMBER: GALN-SA2D-835-U-T4W-HSS

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	811.9	0.0	811.9
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	8000.0	0.0	8000.0
	% Fixture	90.8	0.0	90.8
Total	Lumens	8811.9	0.0	8811.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	0.9
10°-20°	245.5	2.8
20°-30°	416.3	4.7
30°-40°	692.1	7.9
40°-50°	1208.5	13.7
50°-60°	2360.9	26.8
60°-70°	2739.2	31.1
70°-80°	997.5	11.3
80°-90°	70.3	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°	8811.9	100.0
0°-180°	8811.9	100.0

Coefficient of Utilization



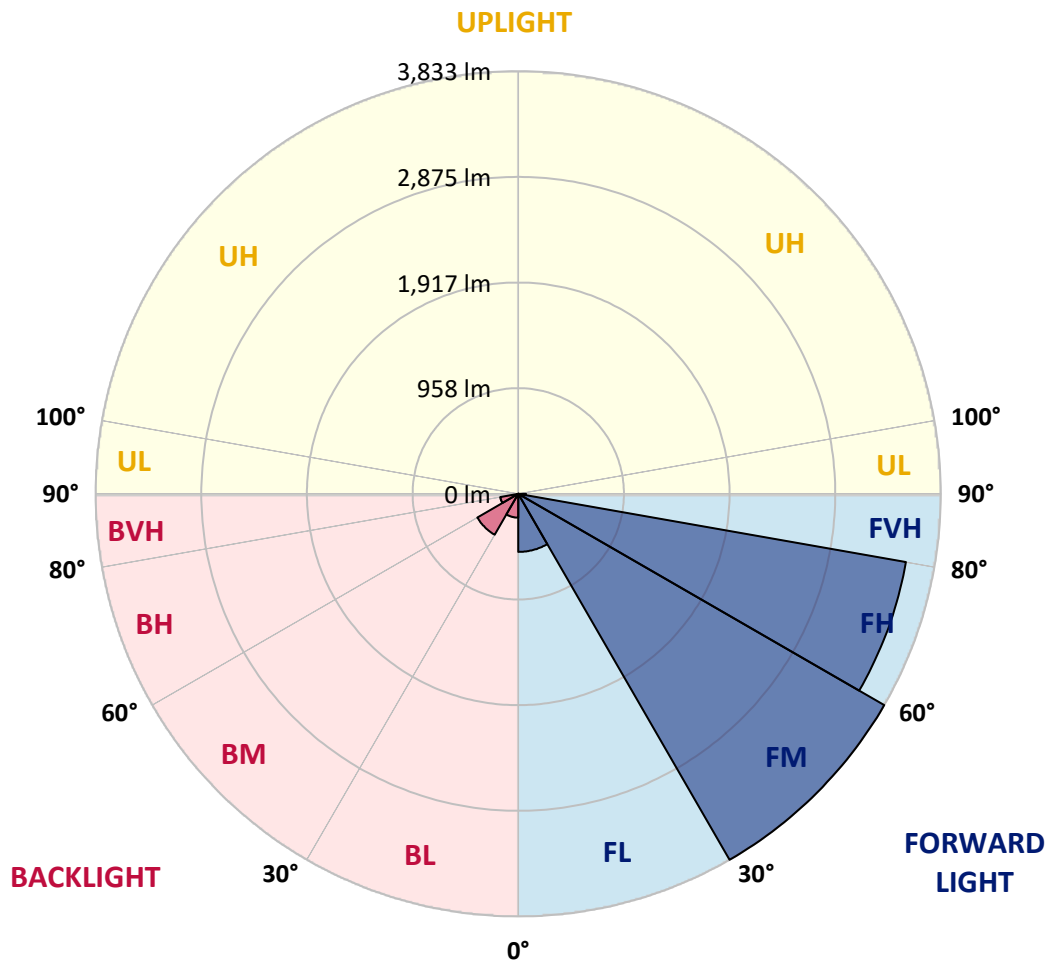
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	527.0	6.0			
FM (30°-60°)	3833.2	43.5			
FH (60°-80°)	3570.5	40.5			G2/5000
FVH (80°-90°)	69.3	0.8			G1/100
BL (0°-30°)	216.3	2.5	B1/500		
BM (30°-60°)	428.3	4.9	B1/1000		
BH (60°-80°)	166.3	1.9	B1/500		G1/500
BVH (80°-90°)	1.0	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





REPORT NUMBER: P647306

CATALOG NUMBER: GALN-SA2D-835-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	820.1	820.1	820.1	820.1	820.1	820.1	820.1	820.1	820.1	820.1	820.1
2.5°	923.2	919.1	917.0	906.3	898.3	888.2	888.2	875.3	860.5	844.4	829.6
5°	1026.2	1019.5	1010.7	1001.2	982.4	955.5	955.5	928.6	897.6	869.9	839.7
7.5°	1125.2	1119.1	1104.3	1086.1	1055.1	1026.8	1024.8	985.8	948.8	906.9	863.9
10°	1212.0	1207.3	1194.5	1159.5	1127.1	1090.1	1089.5	1045.7	1002.6	951.4	898.3
12.5°	1272.6	1273.3	1256.5	1222.8	1181.0	1146.0	1143.3	1100.2	1055.1	999.9	934.6
15°	1315.7	1315.7	1298.2	1260.5	1222.8	1191.8	1189.1	1151.4	1105.0	1045.0	974.3
17.5°	1327.8	1331.9	1313.0	1279.3	1249.0	1222.1	1221.4	1189.8	1152.7	1094.9	1014.7
20°	1323.1	1327.1	1312.3	1286.1	1265.2	1249.7	1247.7	1234.9	1200.6	1146.0	1057.8
22.5°	1313.0	1317.1	1306.3	1290.8	1280.7	1285.4	1282.0	1292.8	1274.6	1208.6	1109.0
25°	1315.0	1319.0	1311.0	1302.2	1311.0	1339.9	1348.7	1395.1	1379.0	1288.1	1164.2
27.5°	1378.3	1386.4	1374.9	1379.0	1409.9	1477.3	1494.1	1574.2	1502.9	1389.1	1250.4
30°	1519.0	1513.7	1492.1	1511.7	1619.4	1762.1	1757.4	1744.6	1632.9	1505.6	1352.7
32.5°	1647.0	1642.3	1640.9	1725.1	1920.4	1989.7	1986.3	1862.4	1749.3	1638.9	1453.7
35°	1698.8	1680.6	1676.6	1880.6	2207.2	2115.6	2094.8	1910.9	1890.7	1784.4	1556.8
37.5°	1855.0	1842.2	1779.6	1906.2	2092.7	2062.4	2046.3	1994.5	2041.6	1912.9	1673.3
40°	2176.9	2141.2	2084.7	1960.8	1930.5	1943.2	1959.4	2101.5	2220.0	2088.7	1828.8
42.5°	2576.9	2568.8	2463.7	2232.8	2005.9	2023.4	2044.3	2325.0	2476.6	2353.3	2082.6
45°	3056.9	3068.4	2916.9	2644.2	2346.6	2361.4	2391.7	2655.0	2824.0	2764.7	2482.0
47.5°	3493.3	3484.5	3433.4	3149.9	2875.2	2842.1	2891.3	3078.5	3304.7	3314.1	2977.5
50°	3932.3	3978.7	3902.6	3791.5	3587.5	3518.2	3500.0	3591.5	3936.3	3891.2	3572.8
52.5°	4563.2	4587.4	4444.7	4416.4	4462.9	4238.0	4219.8	4242.0	4550.4	4395.5	4018.4
55°	4959.8	4945.7	4892.5	5113.3	5297.2	5016.4	4993.4	4903.9	5060.1	4751.7	4447.4
57.5°	5085.0	5105.2	5229.1	5628.4	6063.4	5825.1	5783.3	5528.8	5427.8	5083.7	4842.0
60°	5029.1	5066.2	5333.5	5927.4	6530.7	6495.0	6459.3	6031.8	5691.7	5361.1	5118.7
62.5°	4631.2	4683.0	5110.6	5874.2	6688.9	6911.8	6867.4	6345.5	5867.5	5495.8	5167.2
65°	3881.1	3919.5	4533.6	5391.4	6464.1	7054.5	7038.4	6443.9	5895.1	5372.6	4835.3
67.5°	2766.7	2897.3	3466.3	4543.7	5798.7	6810.8	6838.4	6326.0	5635.8	4840.0	4004.3
70°	1739.2	1828.1	2236.2	3252.9	4648.7	5975.2	6066.1	5786.7	4891.1	3772.7	2680.5
72.5°	829.6	895.5	1186.4	2059.1	3281.2	4701.2	4773.2	4750.4	3782.1	2376.9	1383.0
75°	369.7	394.6	566.3	1051.1	2118.3	3160.0	3346.5	3377.5	2363.4	1162.8	538.0
77.5°	188.5	189.2	265.3	509.0	1057.8	1885.3	1922.3	2030.8	1281.4	512.4	187.2
80°	100.3	107.0	140.7	240.4	548.8	928.6	923.8	1015.4	568.3	251.2	62.6
82.5°	45.1	49.8	79.5	125.9	268.0	352.2	379.8	415.5	243.7	160.3	27.6
85°	13.5	16.1	39.1	63.3	96.9	101.7	113.8	146.8	138.0	113.8	14.2
87.5°	2.0	2.0	16.1	17.5	14.2	18.2	18.9	20.9	44.5	41.7	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647306

CATALOG NUMBER: GALN-SA2D-835-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	820.1	820.1	820.1	820.1	820.1	820.1	820.1	820.1	820.1	820.1	820.1
2.5°	821.4	816.7	799.9	785.8	773.7	766.2	757.5	752.1	749.4	747.4	748.1
5°	824.8	813.4	784.4	761.5	744.0	725.2	712.4	705.0	701.6	696.2	696.2
7.5°	843.7	825.5	785.1	750.1	719.8	694.2	669.9	661.2	655.1	653.8	652.5
10°	870.6	847.8	792.6	744.0	700.9	665.9	631.6	601.3	577.7	563.6	561.6
12.5°	904.3	871.3	804.0	740.0	684.8	622.8	532.0	470.7	429.6	416.8	418.8
15°	935.3	899.6	815.4	736.6	655.1	516.5	413.4	343.4	322.5	320.5	321.2
17.5°	972.3	929.9	828.9	731.9	573.7	394.6	307.0	288.2	292.2	298.9	298.3
20°	1010.7	962.2	845.0	703.6	457.9	296.9	271.4	273.3	279.5	285.5	286.8
22.5°	1051.7	999.3	863.9	635.6	349.5	258.5	257.2	259.9	266.0	272.7	274.0
25°	1108.3	1045.7	878.1	546.8	264.7	239.0	241.7	246.4	251.8	259.3	260.6
27.5°	1181.0	1108.3	885.4	431.0	228.9	221.5	222.2	228.9	235.7	242.4	242.4
30°	1275.3	1183.0	870.6	325.9	211.4	204.7	202.0	206.0	214.8	221.5	222.2
32.5°	1359.4	1253.7	831.5	249.2	198.6	189.2	182.4	183.1	186.5	190.6	191.2
35°	1443.6	1322.4	764.9	209.4	185.2	174.4	164.3	158.9	156.2	154.2	156.2
37.5°	1551.4	1407.9	676.0	190.6	173.7	160.3	146.1	134.7	125.2	119.2	120.5
40°	1690.1	1526.5	571.0	178.4	162.9	146.8	127.9	113.1	96.9	91.6	88.9
42.5°	1919.0	1706.2	460.6	168.3	152.1	132.6	109.1	88.9	74.1	68.7	70.0
45°	2280.6	1933.1	354.9	157.5	141.4	117.1	91.6	70.0	57.9	55.2	56.5
47.5°	2760.0	2226.7	273.3	145.4	127.9	100.3	72.0	55.2	47.8	47.1	46.4
50°	3211.2	2500.1	228.2	131.9	111.8	83.5	59.3	46.4	41.7	41.1	41.1
52.5°	3619.2	2696.0	185.8	116.5	94.3	68.7	49.8	41.1	37.0	35.0	35.0
55°	3982.1	2824.0	150.8	97.6	74.1	54.6	43.1	37.0	32.3	29.6	29.0
57.5°	4256.2	2839.5	113.1	78.1	55.2	42.4	37.0	32.3	26.9	23.6	22.2
60°	4373.3	2705.5	83.5	59.3	41.1	33.7	29.6	26.2	20.2	16.8	16.1
62.5°	4255.4	2444.9	61.9	45.1	31.6	24.9	20.9	19.5	14.2	10.1	9.4
65°	3833.3	2068.5	49.2	34.4	23.6	18.2	13.5	12.8	8.8	4.7	4.1
67.5°	3071.1	1620.0	39.1	25.6	16.8	12.1	8.8	8.1	4.7	1.3	1.3
70°	1997.1	1035.6	31.6	18.9	10.8	8.1	5.4	4.1	2.7	0.7	0.0
72.5°	987.8	484.1	25.6	14.8	7.4	4.1	2.0	1.3	2.0	0.0	0.0
75°	383.1	172.3	18.9	10.1	4.1	2.0	1.3	0.0	0.7	0.0	0.0
77.5°	127.2	57.2	11.4	5.4	2.7	1.3	0.0	0.0	0.0	0.0	0.0
80°	47.1	22.2	6.0	3.4	1.3	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	18.9	8.8	4.1	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.4	5.4	2.7	2.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	4.1	2.7	2.0	1.3	0.7	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)