

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: P647455

Luminaire Tested: **GALN-SA5D-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22676.4 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

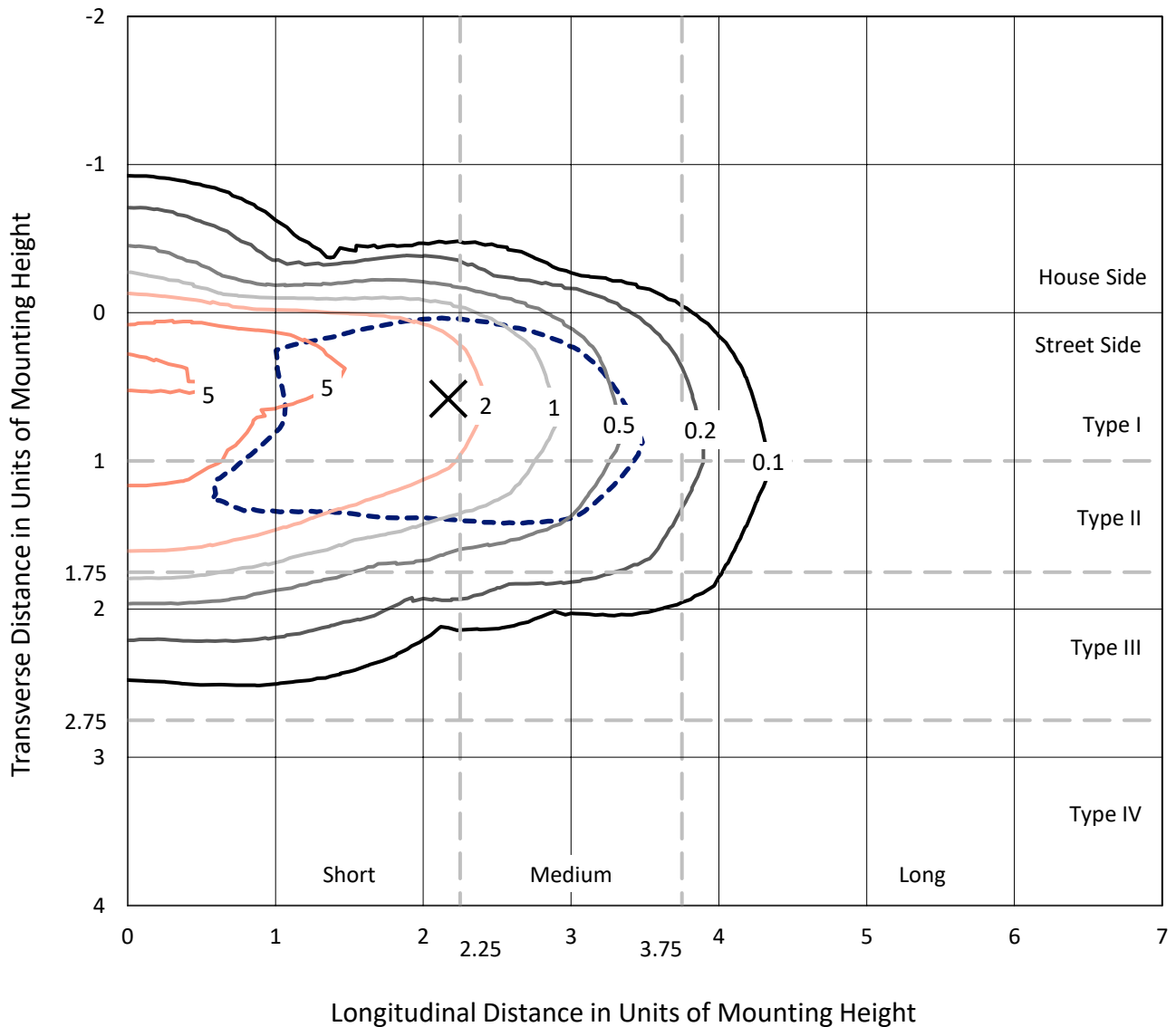
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

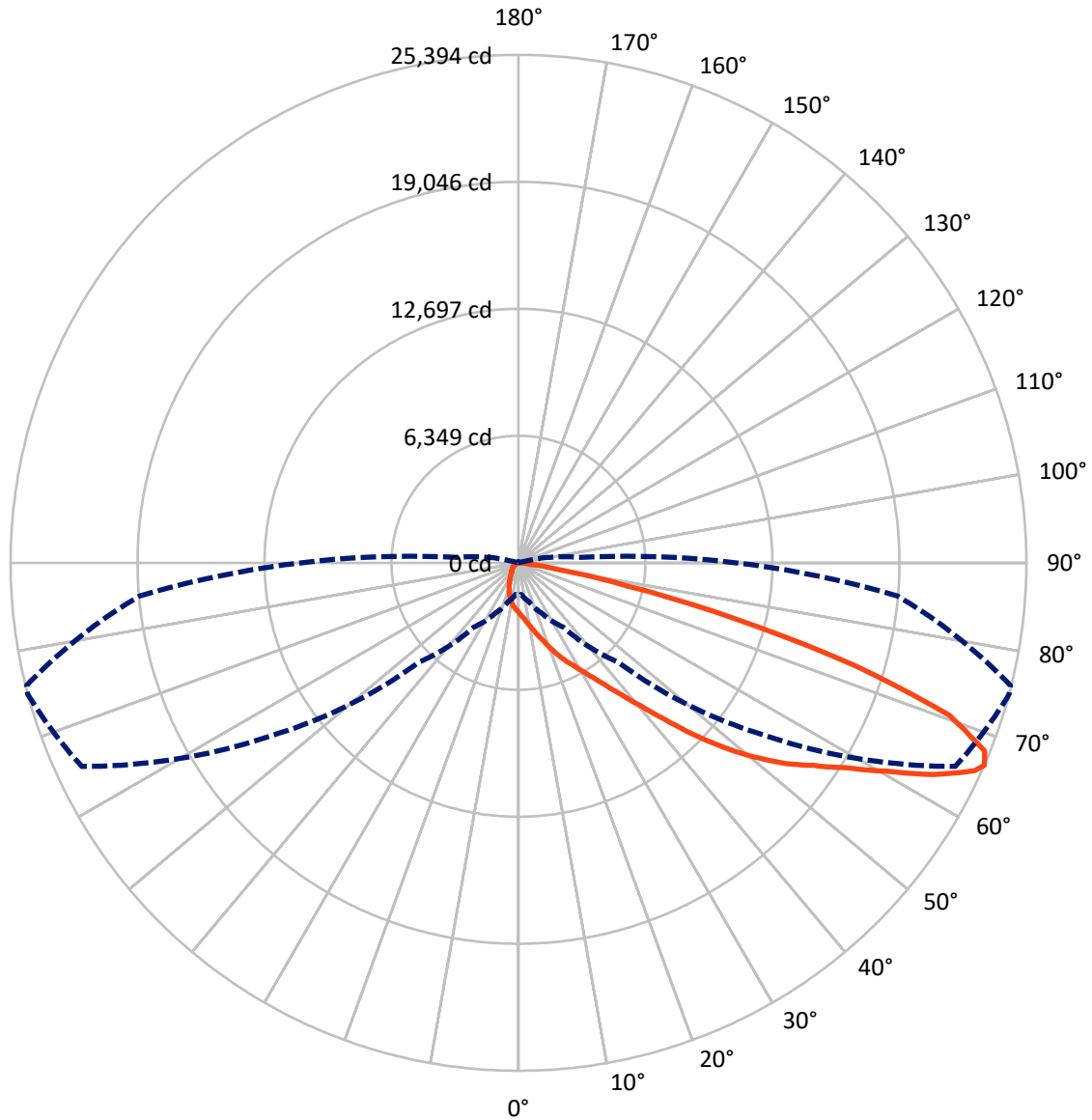
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA5D-835-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1399.9	0.0	1399.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	21276.5	0.0	21276.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	22676.4	0.0	22676.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.2	1.1
10°-20°	704.0	3.1
20°-30°	1215.6	5.4
30°-40°	2192.6	9.7
40°-50°	3961.0	17.5
50°-60°	6175.3	27.2
60°-70°	5866.3	25.9
70°-80°	2198.5	9.7
80°-90°	124.0	0.5
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°	22676.4	100.0
0°-180°	22676.4	100.0

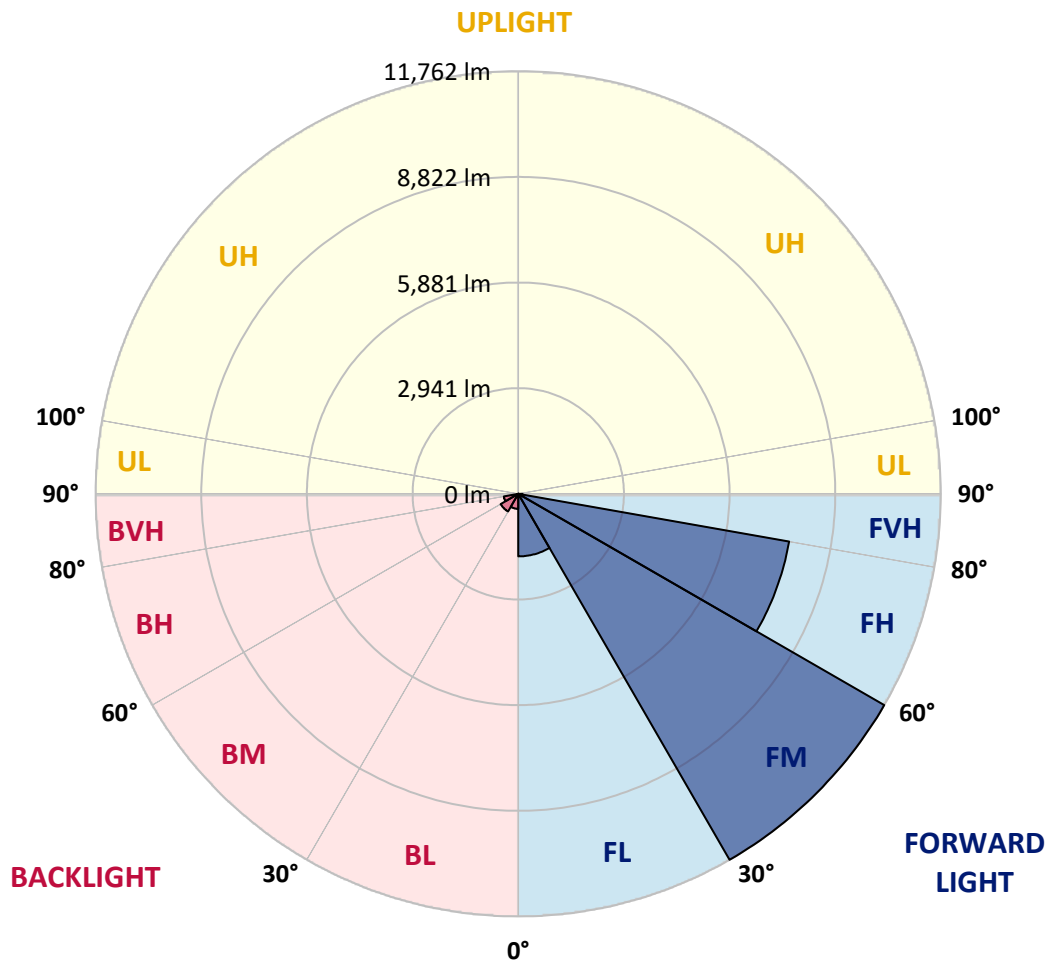


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1740.6	7.7			
FM (30°-60°)	11762.3	51.9			
FH (60°-80°)	7656.0	33.8			G4/12000
FVH (80°-90°)	117.6	0.5			G2/225
BL (0°-30°)	418.1	1.8	B1/500		
BM (30°-60°)	566.7	2.5	B1/1000		
BH (60°-80°)	408.8	1.8	B1/500		G1/500
BVH (80°-90°)	6.4	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2479.9	2479.9	2479.9	2479.9	2479.9	2479.9	2479.9	2479.9	2479.9	2479.9	2479.9
2.5°	2962.8	2925.9	2937.7	2920.9	2882.3	2825.3	2775.0	2702.9	2630.8	2619.1	2538.6
5°	3353.5	3343.4	3330.0	3281.4	3254.5	3167.4	3063.4	2939.3	2790.1	2763.3	2617.4
7.5°	3620.0	3615.0	3621.8	3596.6	3573.1	3494.3	3383.7	3214.3	2982.9	2967.8	2724.7
10°	3707.3	3720.7	3745.8	3786.0	3823.0	3797.8	3714.0	3502.7	3232.8	3189.2	2847.1
12.5°	3657.0	3672.0	3732.4	3839.8	3958.8	4027.5	3994.0	3839.8	3497.7	3462.4	2984.6
15°	3527.9	3546.3	3631.8	3797.8	4010.8	4205.3	4289.1	4178.4	3806.2	3749.2	3150.6
17.5°	3336.7	3363.5	3485.9	3705.6	3997.4	4332.7	4569.1	4532.2	4134.9	4081.2	3331.7
20°	3192.5	3212.6	3316.6	3568.1	3940.4	4403.1	4835.7	4939.6	4540.6	4448.4	3544.6
22.5°	3288.1	3294.8	3330.0	3480.9	3838.0	4421.5	5070.5	5363.9	4971.5	4889.4	3765.9
25°	3755.9	3688.8	3653.6	3620.0	3816.3	4404.8	5283.4	5806.6	5400.7	5313.6	3985.6
27.5°	4493.6	4463.5	4285.8	4047.6	4002.4	4426.6	5424.2	6225.7	5804.8	5711.0	4200.2
30°	5296.8	5244.8	5135.9	4787.1	4436.6	4580.9	5526.5	6633.2	6282.7	6158.7	4396.4
32.5°	6034.6	6068.1	5905.5	5546.6	5140.9	4909.5	5659.0	7077.5	6831.0	6676.8	4624.5
35°	6894.8	6961.8	6712.0	6368.2	5893.7	5503.1	5917.2	7578.9	7526.9	7332.4	4976.6
37.5°	7768.3	7808.5	7656.0	7173.1	6745.5	6257.6	6403.5	8197.5	8383.7	8217.7	5397.5
40°	8502.8	8558.0	8445.8	8016.5	7560.4	7131.2	7109.4	8871.6	9403.1	9232.1	6024.5
42.5°	9064.5	9106.4	9109.7	8806.2	8395.4	8200.9	8009.8	9731.8	10680.8	10483.0	6752.2
45°	9773.7	9834.1	9798.9	9592.6	9285.8	9250.6	9151.6	10771.3	12210.0	11960.2	7696.3
47.5°	10870.3	10910.6	10823.3	10580.2	10268.3	10323.7	10265.0	11936.7	13769.4	13554.7	8673.8
50°	11631.5	11698.6	11822.7	11919.9	11693.6	11489.0	11314.7	13024.9	15249.9	15057.1	9673.1
52.5°	11623.2	11733.8	12126.2	12615.8	13110.4	13048.4	12547.0	14227.1	16663.4	16425.3	10612.1
55°	10840.1	11054.7	11631.5	12500.0	13870.0	14552.4	14324.4	15618.8	17884.1	17723.1	11700.3
57.5°	9223.7	9354.5	10156.0	11369.9	13445.8	15260.0	16383.4	17505.1	19347.9	19272.4	13390.4
60°	6203.9	6262.6	7293.8	8794.5	11447.1	14554.1	17892.5	19787.2	21150.4	21113.5	15363.9
62.5°	3554.7	3579.8	4327.6	5593.6	8145.6	12334.1	18019.9	22602.4	23311.7	23331.8	17647.6
65°	1913.2	1926.6	2530.2	3283.0	4956.5	8791.1	16204.0	24145.1	25058.8	25097.4	19062.8
66°	1651.6	1587.8	2013.8	2798.4	3943.7	6997.0	15055.4	24089.7	25394.2	25352.3	19012.5
67.5°	1255.9	1312.9	1608.0	2151.3	2922.5	4974.9	12429.7	23018.2	25139.3	25008.6	18239.6
70°	898.7	922.2	1145.2	1534.2	1990.3	2729.7	7942.7	19118.2	22848.9	22672.9	15890.4
72.5°	580.1	605.3	811.6	1110.0	1438.6	1490.6	4446.7	13813.0	17615.8	17590.6	11966.9
75°	414.1	437.6	536.6	794.7	1081.5	922.2	2141.2	9309.2	11198.9	11123.5	7402.8
77.5°	300.1	311.9	358.8	519.8	773.0	660.6	992.6	4971.5	5575.1	5838.4	3271.3
80°	172.7	182.8	249.9	316.9	523.1	451.0	474.5	1995.3	2057.3	1958.4	1022.8
82.5°	85.5	97.2	149.2	216.3	327.0	303.5	218.0	600.2	633.8	617.0	258.2
85°	20.1	25.1	83.9	142.5	159.3	135.9	105.6	176.0	218.0	213.0	98.9
87.5°	1.6	3.4	30.1	25.1	26.9	45.3	36.9	45.3	70.4	65.4	35.2
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°	2479.9	2479.9	2479.9	2479.9	2479.9	2479.9	2479.9	2479.9	2479.9	2479.9	2479.9
2.5°	2501.7	2469.8	2377.6	2287.1	2211.6	2132.8	2060.7	2018.8	2002.1	1983.6	1992.0
5°	2536.9	2459.8	2273.7	2112.7	1955.1	1820.9	1713.6	1644.8	1611.3	1606.3	1597.9
7.5°	2583.8	2451.4	2163.0	1911.5	1705.2	1556.0	1433.6	1334.7	1304.5	1277.7	1255.9
10°	2640.8	2436.3	2025.5	1700.2	1480.6	1292.7	1131.8	1014.5	954.1	937.3	949.0
12.5°	2701.2	2407.8	1881.3	1505.7	1252.5	1012.7	863.5	804.8	788.1	781.4	783.0
15°	2761.6	2372.6	1730.4	1317.9	997.6	808.2	739.5	724.4	717.6	714.3	711.0
17.5°	2816.9	2315.6	1561.1	1135.1	808.2	690.8	665.6	652.2	638.8	633.8	625.5
20°	2882.3	2250.2	1408.5	930.6	684.1	625.5	595.2	570.1	550.0	536.6	534.9
22.5°	2944.3	2166.3	1249.2	771.3	623.7	561.7	513.1	486.2	462.8	446.0	451.0
25°	2977.9	2064.1	1106.6	672.4	568.4	498.0	444.4	410.8	385.6	377.2	375.6
27.5°	2977.9	1938.3	967.5	615.4	518.1	441.0	385.6	353.8	337.0	325.3	327.0
30°	2954.4	1799.2	838.4	571.7	474.5	390.7	338.7	310.2	296.8	288.4	286.7
32.5°	2935.9	1666.7	727.7	529.9	429.2	347.1	301.8	280.0	266.6	258.2	258.2
35°	2964.4	1552.7	642.2	488.0	387.4	313.5	273.3	253.2	239.8	233.1	231.4
37.5°	3039.9	1448.7	576.8	442.6	348.7	285.0	253.2	229.7	216.3	207.9	204.6
40°	3226.0	1390.0	528.1	400.7	311.9	261.6	229.7	207.9	191.1	182.8	181.1
42.5°	3524.5	1391.7	481.2	362.1	283.4	241.5	209.6	184.5	166.0	157.6	156.0
45°	3973.9	1455.4	444.4	325.3	258.2	219.6	187.8	161.0	144.2	135.9	135.9
47.5°	4512.1	1579.5	412.5	293.4	234.7	199.5	166.0	139.1	122.4	115.7	115.7
50°	5095.6	1740.5	380.6	259.9	214.6	177.7	142.5	120.7	107.3	102.3	102.3
52.5°	5690.8	1934.9	348.7	233.1	192.9	154.3	122.4	107.3	95.6	92.2	90.5
55°	6472.2	2183.1	315.2	204.6	169.4	132.5	109.0	93.9	80.5	75.5	73.8
57.5°	7674.4	2557.0	278.4	179.4	139.1	110.6	93.9	78.8	63.7	55.4	53.6
60°	9124.8	3013.1	239.8	157.6	112.4	90.5	75.5	60.4	47.0	36.9	35.2
62.5°	10483.0	3303.2	202.9	132.5	88.9	68.7	53.6	45.3	33.5	23.5	21.8
65°	11083.2	3205.9	167.6	107.3	70.4	48.6	35.2	31.9	20.1	10.0	8.4
66°	10883.7	3061.7	154.3	97.2	63.7	41.9	30.1	26.9	15.1	5.0	5.0
67.5°	10295.2	2721.3	134.1	83.9	55.4	33.5	23.5	20.1	8.4	1.6	0.0
70°	8821.4	2201.6	105.6	62.0	40.2	23.5	13.4	10.0	5.0	0.0	0.0
72.5°	6775.7	1639.8	83.9	47.0	28.5	13.4	6.7	3.4	5.0	0.0	0.0
75°	4151.6	937.3	65.4	35.2	18.5	8.4	5.0	0.0	5.0	1.6	0.0
77.5°	1842.7	420.9	43.6	23.5	13.4	6.7	3.4	0.0	3.4	1.6	0.0
80°	466.1	137.5	25.1	16.8	10.0	5.0	1.6	0.0	3.4	3.4	1.6
82.5°	127.4	50.3	18.5	13.4	8.4	5.0	1.6	0.0	3.4	3.4	3.4
85°	50.3	23.5	16.8	13.4	10.0	5.0	1.6	0.0	3.4	3.4	3.4
87.5°	23.5	16.8	16.8	15.1	11.7	5.0	1.6	0.0	3.4	1.6	3.4
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)