

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: P527763

Luminaire Tested: **GALN-SA2D-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-740-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9080 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

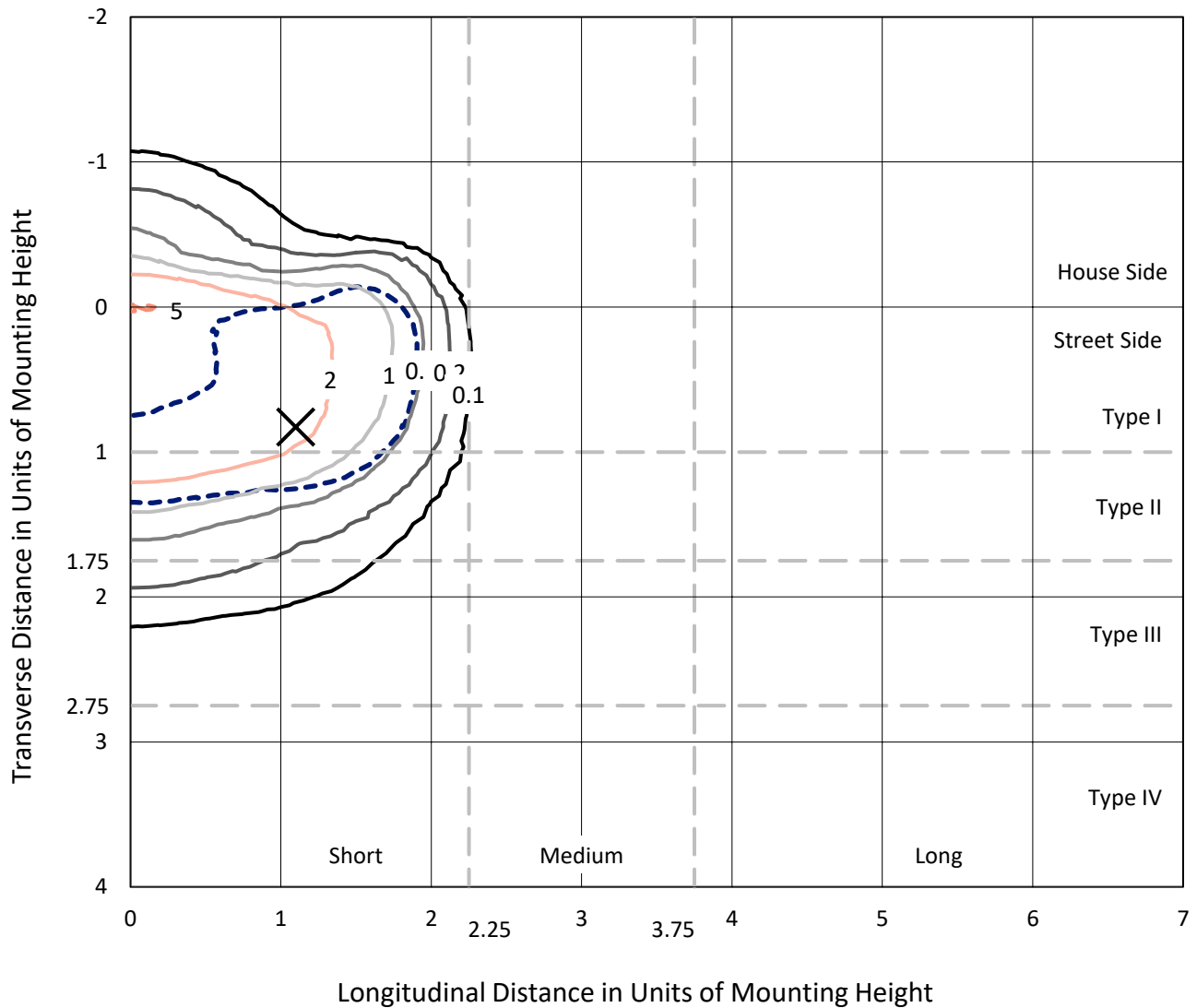
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

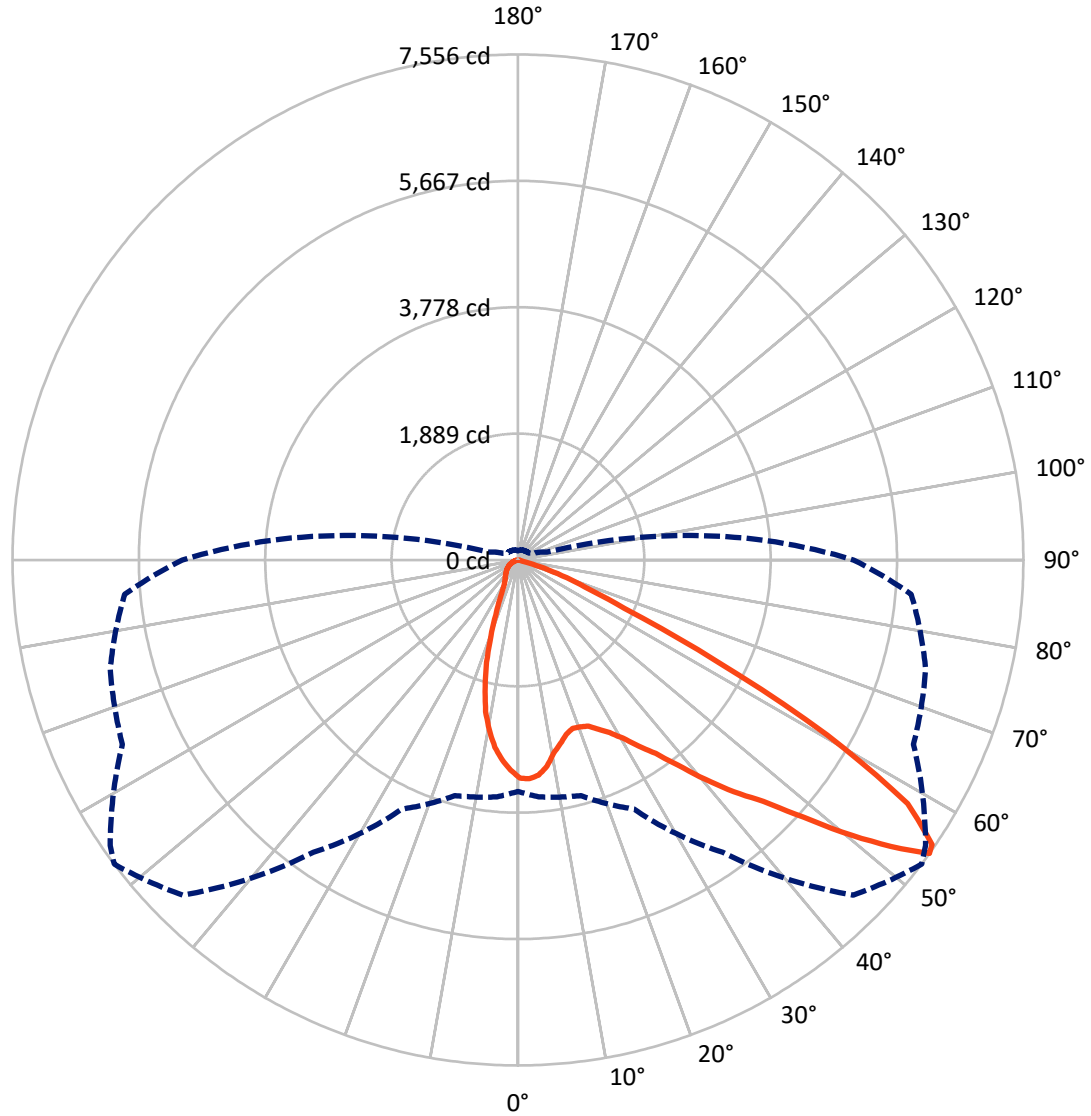
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1502.3	0.0	1502.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7577.7	0.0	7577.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	9080.0	0.0	9080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.8	3.1
10°-20°	641.5	7.1
20°-30°	911.8	10.0
30°-40°	1407.1	15.5
40°-50°	2206.2	24.3
50°-60°	2562.8	28.2
60°-70°	968.4	10.7
70°-80°	92.1	1.0
80°-90°	10.4	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°	9080.0	100.0
0°-180°	9080.0	100.0

Coefficient of Utilization



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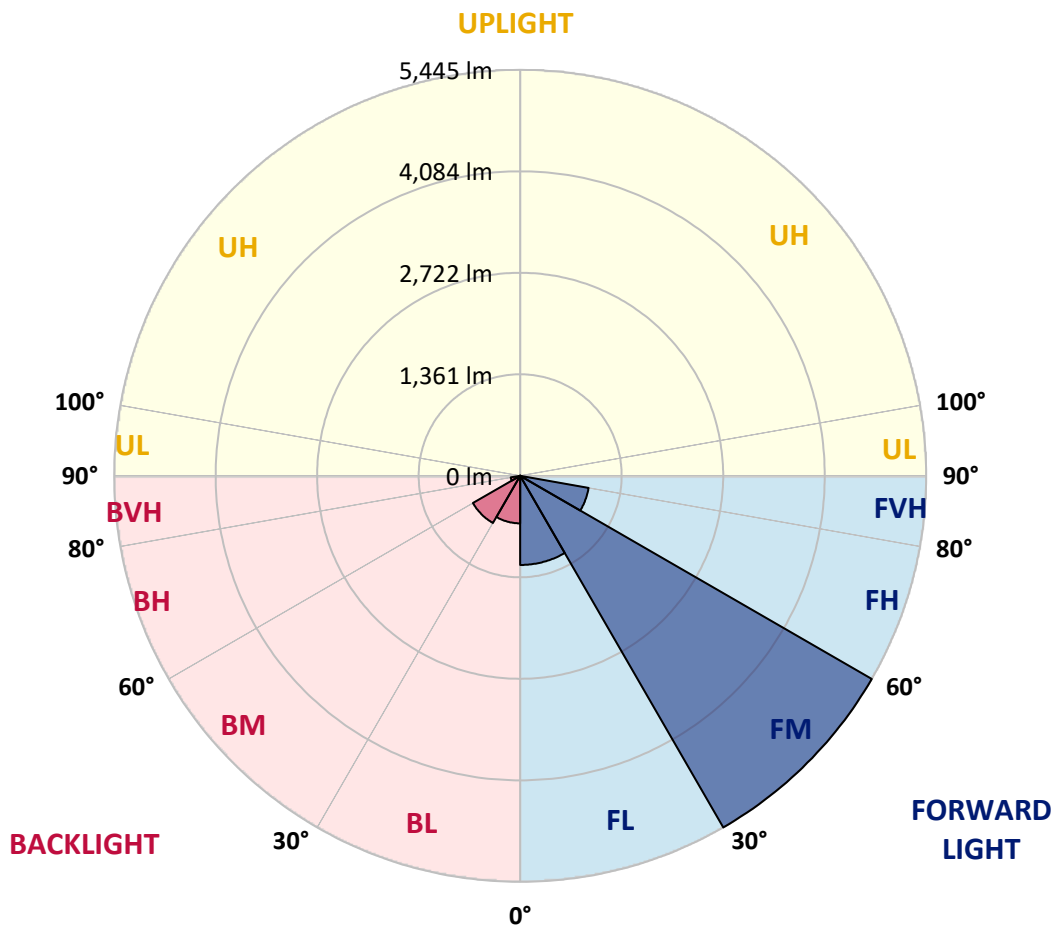
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1195.6	13.2			
FM (30°-60°)	5445.0	60.0			
FH (60°-80°)	931.7	10.3			G1/1800
FVH (80°-90°)	5.4	0.1			G0/10
BL (0°-30°)	637.5	7.0	B2/1000		
BM (30°-60°)	731.1	8.1	B1/1000		
BH (60°-80°)	128.7	1.4	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: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4
2.5°	3244.5	3215.7	3244.5	3247.9	3268.1	3286.8	3274.9	3302.0	3286.8	3269.8	3264.8
5°	2982.3	3021.2	3022.9	3083.8	3070.2	3181.9	3230.9	3217.4	3300.3	3295.2	3283.4
7.5°	2747.1	2731.9	2752.2	2823.3	2912.9	3041.5	3112.5	3110.8	3229.2	3313.8	3305.4
10°	2528.9	2527.2	2569.5	2625.3	2701.5	2836.8	2934.9	2984.0	3168.3	3296.9	3315.5
12.5°	2381.8	2375.0	2420.7	2466.3	2586.4	2691.3	2816.5	2840.2	3051.6	3237.7	3268.1
15°	2285.3	2300.6	2303.9	2391.9	2468.0	2606.7	2704.9	2753.9	2997.5	3190.3	3307.1
17.5°	2268.4	2288.7	2290.4	2363.1	2444.3	2561.1	2647.3	2713.3	2951.8	3214.0	3308.7
20°	2302.3	2290.4	2300.6	2346.2	2425.7	2537.4	2662.6	2684.6	2936.6	3225.9	3327.4
22.5°	2398.7	2395.3	2369.9	2407.1	2463.0	2579.7	2698.1	2731.9	2980.6	3286.8	3342.6
25°	2505.2	2523.9	2500.2	2495.1	2534.0	2649.0	2806.3	2850.3	3127.7	3396.7	3389.9
27.5°	2704.9	2686.2	2686.2	2662.6	2652.4	2708.2	2923.1	2995.8	3291.8	3538.8	3444.1
30°	2896.0	2916.3	2901.1	2909.5	2841.9	2836.8	3088.8	3178.5	3582.8	3755.3	3559.1
32.5°	3198.8	3171.7	3197.1	3175.1	3085.5	2994.1	3313.8	3406.9	3934.6	4004.0	3731.6
35°	3450.8	3439.0	3547.3	3543.9	3398.4	3308.7	3552.3	3691.0	4179.9	4301.7	3934.6
37.5°	3809.5	3787.5	3911.0	3970.2	3839.9	3706.3	3894.0	4054.7	4408.3	4540.2	4142.7
40°	4178.2	4234.0	4399.8	4497.9	4359.2	4181.6	4311.9	4360.9	4560.5	4695.9	4284.8
42.5°	4645.1	4726.3	4895.5	4980.0	4968.2	4775.4	4736.4	4734.8	4670.5	4651.9	4389.7
45°	5093.4	5062.9	5323.4	5507.8	5656.7	5600.9	5145.8	5095.1	4844.7	4717.8	4416.7
47.5°	5289.6	5279.4	5457.1	5785.2	6292.7	6362.1	5741.3	5545.0	5139.0	4995.3	4563.9
50°	5035.9	5088.3	5264.2	5627.9	6406.0	6935.5	6472.0	6208.1	5482.4	5333.6	4912.4
52.5°	4207.0	4242.5	4410.0	4871.8	6020.4	7273.8	7172.3	7020.1	6113.4	5866.4	5519.7
54°	3459.3	3554.0	3645.4	4108.9	5333.6	7086.1	7556.3	7439.6	6524.5	6309.6	5902.0
55°	3012.7	3068.5	3134.5	3596.3	4858.2	6768.0	7512.3	7522.5	6800.2	6448.3	6159.1
57.5°	2200.8	2239.7	2172.0	2376.7	3335.8	5496.0	6871.2	7145.3	7172.3	6656.4	6316.4
60°	1681.4	1698.4	1622.2	1654.4	2073.9	3772.2	5315.0	5644.8	6470.3	5817.4	5350.5
62.5°	1304.2	1307.6	1305.9	1361.7	1429.4	2219.4	3324.0	3616.6	4460.7	4130.9	3633.5
65°	960.8	945.6	972.7	1141.8	1219.6	1395.6	1750.8	1963.9	2424.0	2046.8	1463.2
67.5°	622.5	627.6	654.6	849.2	1045.4	1070.8	1077.5	1060.6	1062.3	585.3	367.1
70°	373.8	382.3	373.8	480.4	747.7	768.0	702.0	685.1	534.5	138.7	137.0
72.5°	221.6	209.8	187.8	206.4	311.3	372.1	334.9	333.2	209.8	81.2	81.2
75°	93.0	84.6	69.4	62.6	82.9	79.5	79.5	71.0	55.8	54.1	50.7
77.5°	18.6	18.6	13.5	15.2	20.3	23.7	28.8	28.8	33.8	33.8	32.1
80°	0.0	1.7	5.1	10.1	15.2	22.0	25.4	25.4	28.8	28.8	23.7
82.5°	0.0	1.7	5.1	10.1	13.5	20.3	25.4	25.4	28.8	30.4	25.4
85°	0.0	1.7	5.1	8.5	13.5	16.9	16.9	15.2	11.8	10.1	6.8
87.5°	0.0	0.0	1.7	3.4	1.7	3.4	3.4	3.4	3.4	3.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4
2.5°	3276.6	3274.9	3234.3	3168.3	3153.1	3097.3	3090.5	3056.7	3075.3	3012.7	3006.0
5°	3249.5	3229.2	3180.2	3137.9	3014.4	2926.4	2857.1	2772.5	2723.5	2731.9	2699.8
7.5°	3288.4	3236.0	3149.7	3002.6	2852.0	2698.1	2615.2	2442.7	2380.1	2287.0	2273.5
10°	3247.9	3208.9	3075.3	2831.7	2623.7	2402.1	2207.5	2016.4	1870.9	1808.3	1794.8
12.5°	3244.5	3176.8	2953.5	2682.9	2381.8	2063.7	1781.2	1542.7	1398.9	1317.7	1299.1
15°	3192.0	3110.8	2816.5	2452.8	2036.7	1640.8	1333.0	1102.9	993.0	945.6	959.1
17.5°	3197.1	3075.3	2679.5	2209.2	1696.7	1204.4	910.1	791.7	762.9	774.7	774.7
20°	3192.0	2995.8	2513.7	1928.4	1299.1	835.6	668.2	625.9	644.5	681.7	673.3
22.5°	3165.0	2958.6	2361.5	1632.4	955.7	619.1	536.2	537.9	566.7	612.4	622.5
25°	3185.3	2875.7	2168.6	1333.0	696.9	493.9	465.2	477.0	507.5	541.3	548.1
27.5°	3170.0	2816.5	1967.3	1035.3	509.2	424.6	422.9	436.4	450.0	475.3	475.3
30°	3187.0	2762.4	1769.4	769.7	419.5	389.1	382.3	392.4	406.0	411.1	409.4
32.5°	3249.5	2721.8	1541.0	575.1	370.5	355.2	355.2	355.2	353.5	360.3	362.0
35°	3386.6	2728.5	1339.7	444.9	338.3	326.5	321.4	314.6	311.3	314.6	316.3
37.5°	3535.4	2725.1	1131.7	378.9	314.6	304.5	292.6	282.5	280.8	284.2	279.1
40°	3601.4	2757.3	938.8	340.0	292.6	280.8	262.2	253.7	255.4	258.8	255.4
42.5°	3691.0	2767.4	813.7	309.6	272.3	253.7	241.9	231.7	230.1	235.1	233.4
45°	3689.4	2709.9	681.7	292.6	253.7	233.4	218.2	209.8	209.8	213.1	214.8
47.5°	3797.6	2701.5	585.3	277.4	240.2	219.9	201.3	194.5	192.8	192.8	189.5
50°	4049.7	2819.9	510.9	260.5	223.3	204.7	189.5	181.0	174.2	170.9	169.2
52.5°	4541.9	3188.6	453.3	240.2	204.7	189.5	175.9	169.2	160.7	152.2	150.6
54°	5018.9	3569.3	450.0	223.3	189.5	179.3	167.5	164.1	153.9	142.1	138.7
55°	5233.8	3790.9	461.8	209.8	179.3	172.5	162.4	159.0	148.9	135.3	133.6
57.5°	5411.4	3877.1	455.0	174.2	162.4	160.7	152.2	147.2	135.3	116.7	113.3
60°	4355.8	2931.5	326.5	153.9	148.9	145.5	138.7	135.3	120.1	99.8	98.1
62.5°	2752.2	1686.5	208.1	135.3	130.3	125.2	116.7	113.3	99.8	79.5	74.4
65°	1172.3	698.6	140.4	120.1	111.6	103.2	96.4	91.3	79.5	59.2	57.5
67.5°	304.5	248.7	116.7	104.9	93.0	81.2	76.1	67.7	54.1	40.6	38.9
70°	137.0	125.2	98.1	88.0	74.4	62.6	55.8	47.4	35.5	27.1	25.4
72.5°	81.2	79.5	74.4	66.0	55.8	47.4	40.6	32.1	23.7	15.2	15.2
75°	50.7	49.1	50.7	45.7	38.9	35.5	30.4	22.0	13.5	6.8	6.8
77.5°	30.4	30.4	30.4	28.8	27.1	27.1	22.0	13.5	6.8	1.7	1.7
80°	23.7	23.7	25.4	23.7	23.7	23.7	18.6	10.1	3.4	0.0	0.0
82.5°	23.7	25.4	28.8	27.1	23.7	20.3	16.9	10.1	3.4	0.0	0.0
85°	6.8	5.1	8.5	11.8	16.9	15.2	11.8	8.5	3.4	0.0	0.0
87.5°	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	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)