

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: P453749

Luminaire Tested: **GALN-SA4D-740-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22468 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

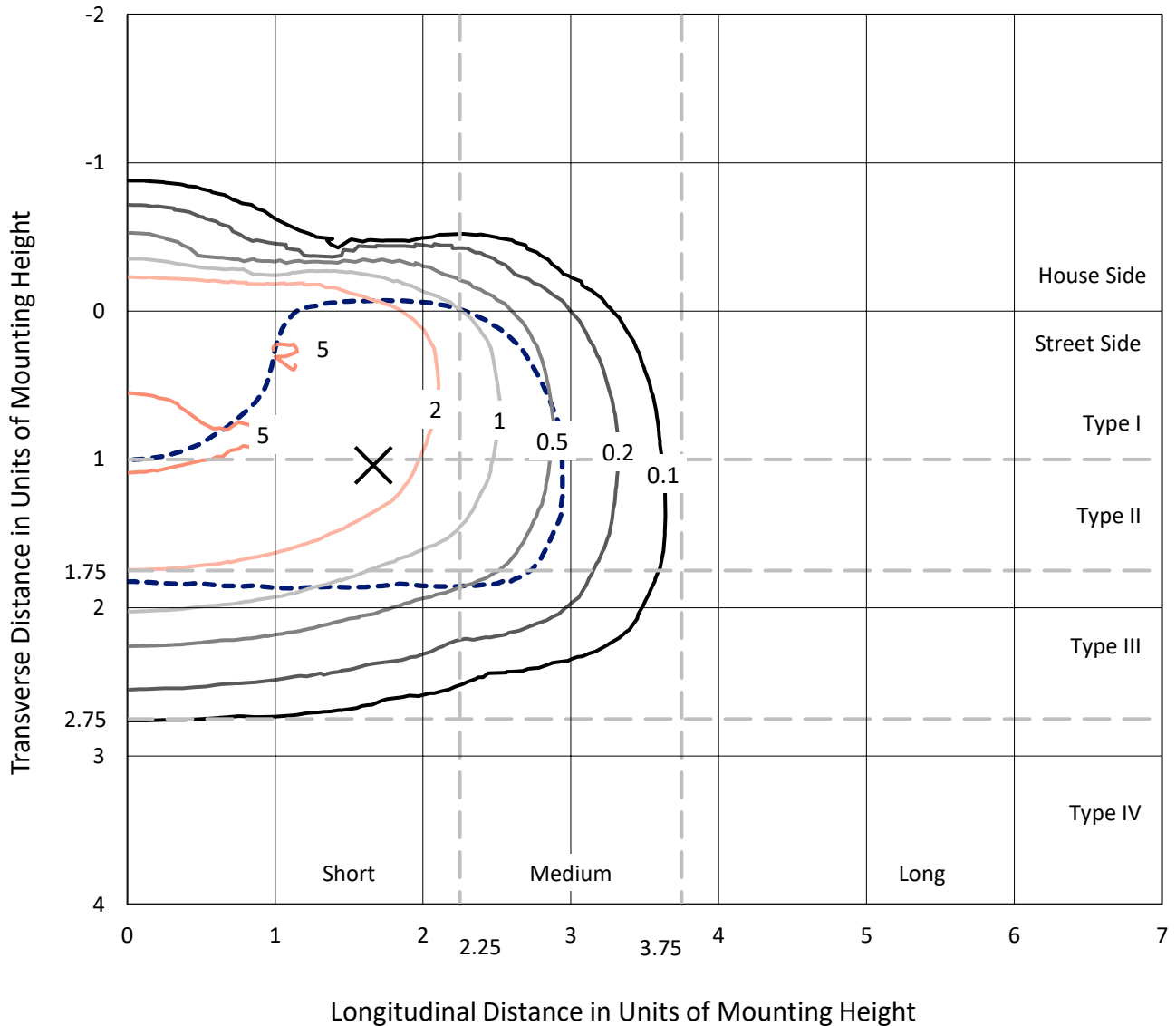
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

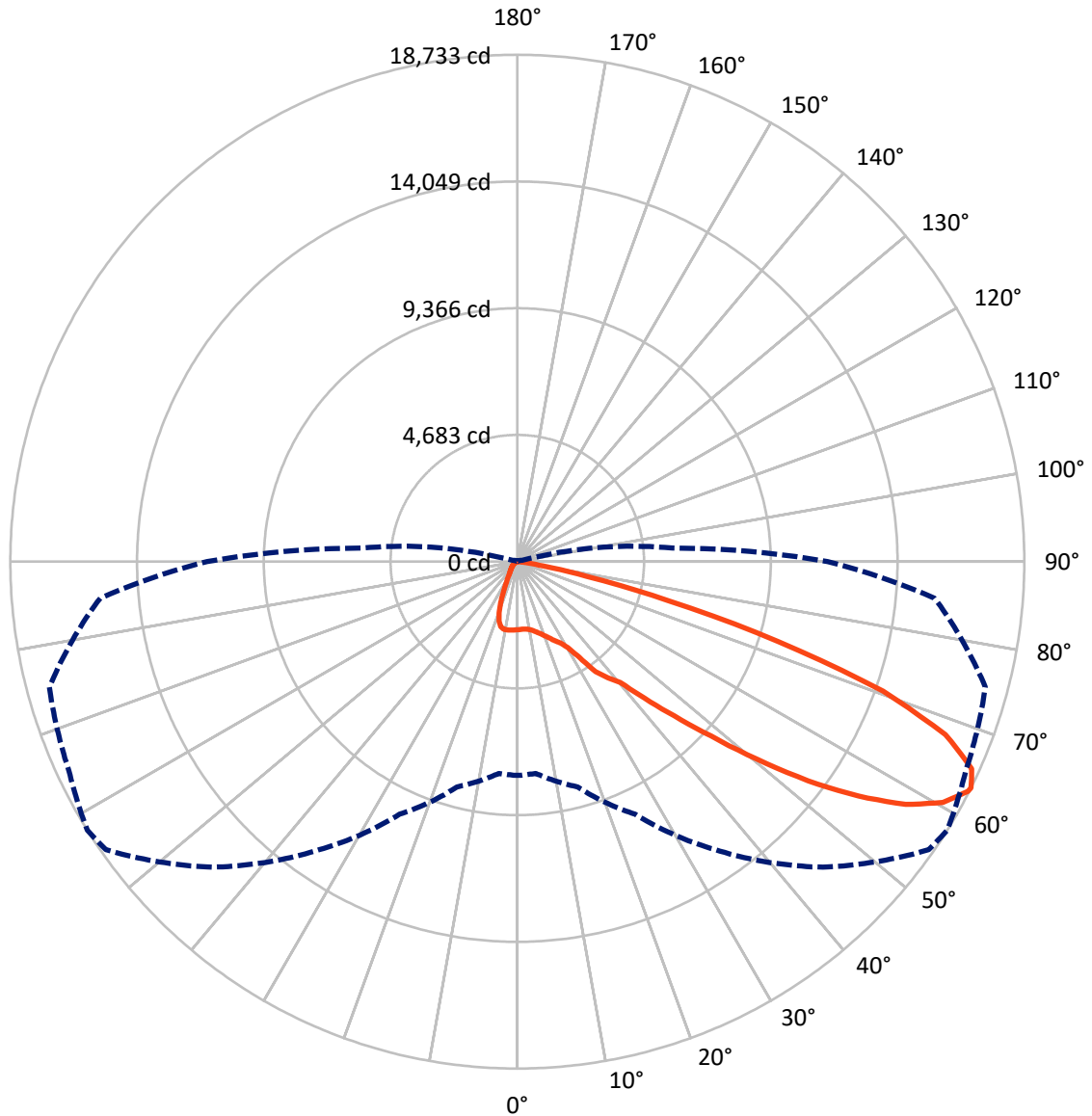
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2326.4	0.0	2326.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	20141.6	0.0	20141.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	22468.0	0.0	22468.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.5	1.0
10°-20°	641.3	2.9
20°-30°	1113.1	5.0
30°-40°	2045.4	9.1
40°-50°	3850.5	17.1
50°-60°	6585.9	29.3
60°-70°	6306.0	28.1
70°-80°	1608.1	7.2
80°-90°	82.2	0.4
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°	22468.0	100.0
0°-180°	22468.0	100.0

Coefficient of Utilization



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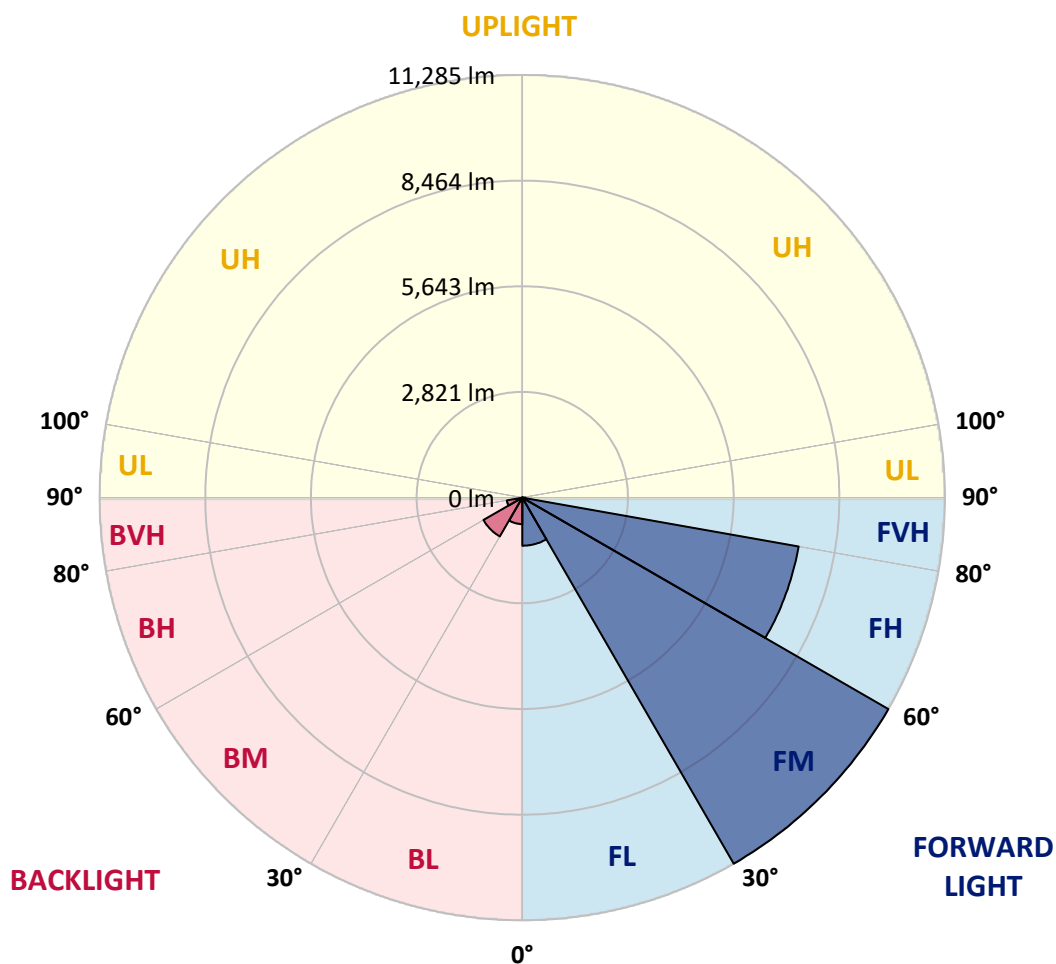
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1284.4	5.7			
FM (30°-60°)	11285.2	50.2			
FH (60°-80°)	7493.0	33.3			G3/7500
FVH (80°-90°)	79.0	0.4			G1/100
BL (0°-30°)	705.5	3.1	B2/1000		
BM (30°-60°)	1196.6	5.3	B2/2500		
BH (60°-80°)	421.1	1.9	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4
2.5°	2452.8	2461.2	2469.7	2473.1	2484.9	2496.8	2505.2	2503.5	2517.1	2523.8	2523.8
5°	2354.7	2354.7	2376.7	2397.0	2430.8	2464.6	2496.8	2503.5	2528.9	2552.6	2561.1
7.5°	2271.8	2276.9	2293.8	2331.0	2376.7	2435.9	2500.2	2515.4	2559.4	2611.8	2633.8
10°	2232.9	2236.3	2258.3	2297.2	2354.7	2435.9	2525.5	2554.3	2621.9	2704.8	2735.3
12.5°	2224.4	2229.5	2251.5	2295.5	2361.4	2459.6	2581.4	2611.8	2709.9	2816.5	2862.2
15°	2239.7	2243.0	2265.0	2312.4	2385.1	2501.8	2655.8	2698.1	2814.8	2938.3	2997.5
17.5°	2293.8	2290.4	2305.6	2344.5	2425.7	2554.3	2745.4	2796.2	2933.2	3102.4	3141.3
20°	2523.8	2501.8	2488.3	2454.5	2486.6	2628.7	2853.7	2928.1	3097.3	3269.8	3296.9
22.5°	3019.5	2970.4	2874.0	2742.1	2640.6	2730.2	2983.9	3070.2	3288.4	3457.6	3457.6
25°	3650.4	3587.8	3491.4	3203.9	2955.2	2897.7	3131.1	3239.4	3496.5	3667.3	3611.5
27.5°	4440.4	4391.3	4203.6	3868.6	3488.0	3190.3	3302.0	3401.8	3680.9	3887.3	3770.5
30°	5083.2	5059.5	4905.6	4606.2	4186.7	3751.9	3620.0	3686.0	3926.2	4164.7	4044.6
32.5°	5626.2	5626.2	5468.9	5189.8	4797.3	4411.6	4159.6	4207.0	4437.0	4712.7	4489.5
35°	6223.3	6203.0	6076.2	5810.6	5370.8	5030.8	4927.6	4991.9	5199.9	5404.6	4854.8
37.5°	6850.9	6844.1	6712.2	6455.1	6096.5	5668.5	5426.6	5443.5	5550.1	5675.3	5282.8
40°	7532.6	7542.8	7370.2	7211.2	6872.9	6434.8	5971.3	5864.7	5964.5	6318.1	6072.8
42.5°	8337.8	8314.1	8239.7	8023.2	7750.8	7488.6	6932.1	6893.2	6981.2	7360.1	7094.5
45°	9273.2	9307.1	9178.5	9058.4	8875.7	8657.5	8192.3	8124.7	8221.1	8809.7	8432.5
47.5°	10210.4	10178.2	10261.1	10239.1	10337.2	10174.9	9763.8	9625.1	9856.8	10415.1	9860.2
50°	10924.2	10959.7	11132.3	11384.3	11805.5	11896.9	11502.7	11455.4	11558.6	11917.2	11137.4
52.5°	11387.7	11506.1	11776.8	12424.7	13184.2	13774.5	13475.1	13449.8	13407.5	13503.9	12358.7
55°	11690.5	11810.6	12164.2	13118.2	14425.8	15384.9	15400.1	15291.9	15012.8	14943.4	13500.5
57.5°	11504.4	11528.1	12032.2	13307.7	15114.3	16533.5	17030.8	16922.6	16406.6	16144.4	14508.7
60°	10340.6	10389.7	11091.7	12590.4	14814.9	16909.0	18111.7	18062.7	17497.7	17201.7	15293.6
62.5°	8278.6	8420.7	9143.0	10814.3	13422.7	16276.4	18549.9	18688.6	18248.8	17841.1	15540.5
63°	7899.7	7854.0	8616.9	10296.6	13053.9	15963.4	18556.6	18732.6	18282.6	17902.0	15472.9
65°	5847.8	5984.8	6480.4	8119.6	10863.3	14507.0	18138.8	18450.1	18157.4	17633.0	14723.5
67.5°	3283.4	3276.6	3824.7	5313.3	7603.7	11379.3	16401.6	17059.6	16998.7	15823.0	12204.7
70°	1607.0	1632.4	1857.4	2753.9	4409.9	7850.6	13629.1	14339.5	14361.5	12428.0	8439.3
72.5°	727.4	739.2	899.9	1341.4	2266.7	4179.9	9391.7	10070.0	9944.8	7920.0	4660.3
75°	384.0	409.4	495.6	674.9	1092.8	1723.7	5108.6	5764.9	5502.7	3618.3	1715.3
77.5°	284.2	292.6	336.6	429.7	585.3	671.6	2204.1	2621.9	2456.2	1309.3	568.4
80°	208.1	214.8	250.4	304.5	368.8	341.7	830.6	952.4	854.2	444.9	174.2
82.5°	126.9	128.6	182.7	226.7	231.7	191.1	274.0	294.3	307.9	250.4	94.7
85°	45.7	57.5	123.5	164.1	137.0	96.4	115.0	126.9	138.7	159.0	55.8
87.5°	5.1	6.8	59.2	79.5	38.9	35.5	42.3	47.4	50.7	59.2	27.1
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°	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4
2.5°	2530.6	2537.4	2532.3	2523.8	2522.1	2517.1	2506.9	2506.9	2506.9	2510.3	2506.9
5°	2567.8	2572.9	2561.1	2544.1	2525.5	2501.8	2476.5	2461.2	2459.6	2456.2	2447.7
7.5°	2638.9	2645.6	2618.6	2578.0	2527.2	2469.7	2415.6	2364.8	2341.1	2322.5	2322.5
10°	2742.1	2748.8	2694.7	2621.9	2520.5	2403.7	2275.2	2158.5	2067.1	2024.8	2014.7
12.5°	2865.5	2868.9	2779.3	2652.4	2484.9	2260.0	1985.9	1730.5	1552.9	1471.7	1463.2
15°	3000.9	2977.2	2858.8	2664.2	2383.4	1963.9	1490.3	1177.3	993.0	938.8	959.1
17.5°	3137.9	3093.9	2919.7	2645.6	2155.1	1490.3	1001.4	803.5	746.0	730.8	730.8
20°	3266.4	3205.5	2963.6	2564.4	1759.2	1026.8	742.6	695.2	685.1	674.9	676.6
22.5°	3395.0	3302.0	3002.6	2383.4	1311.0	734.1	664.8	649.6	636.0	622.5	620.8
25°	3520.2	3391.6	3017.8	2048.5	893.2	631.0	607.3	587.0	559.9	544.7	541.3
27.5°	3650.4	3499.9	3007.6	1625.6	651.3	565.0	541.3	512.5	480.4	453.3	453.3
30°	3900.8	3706.3	2972.1	1168.9	548.1	497.3	466.9	421.2	385.7	358.6	356.9
32.5°	4242.5	3975.2	2850.3	822.1	487.2	438.1	392.4	341.7	304.5	284.2	284.2
35°	4547.0	4245.9	2621.9	605.6	438.1	380.6	324.8	275.7	247.0	233.4	228.4
37.5°	5010.5	4641.7	2307.3	492.2	390.8	329.9	272.3	226.7	203.0	192.8	192.8
40°	5705.7	5125.5	1921.6	431.4	345.1	280.8	226.7	191.1	172.5	160.7	160.7
42.5°	6568.4	5717.5	1530.9	387.4	302.8	241.9	189.5	162.4	145.5	137.0	135.3
45°	7654.4	6341.7	1179.0	346.8	269.0	206.4	160.7	137.0	120.1	115.0	116.7
47.5°	8787.8	6891.5	913.5	311.3	233.4	174.2	137.0	118.4	106.6	99.8	99.8
50°	9755.3	7270.4	693.5	270.7	206.4	147.2	120.1	106.6	96.4	93.0	91.3
52.5°	10563.9	7380.4	531.2	235.1	181.0	126.9	106.6	96.4	88.0	82.9	82.9
55°	11252.4	7283.9	416.1	197.9	152.2	110.0	94.7	86.3	76.1	71.0	69.4
57.5°	11655.0	6974.4	318.0	164.1	123.5	91.3	82.9	72.7	60.9	52.4	52.4
60°	11858.0	6524.4	243.6	135.3	94.7	72.7	67.7	54.1	42.3	35.5	33.8
62.5°	11614.4	5927.3	184.4	106.6	71.0	54.1	45.7	38.9	27.1	20.3	20.3
63°	11463.8	5754.8	177.6	101.5	66.0	50.7	42.3	35.5	23.7	18.6	16.9
65°	10450.6	5002.0	145.5	81.2	52.4	35.5	28.8	25.4	16.9	8.5	6.8
67.5°	8298.9	3826.4	115.0	60.9	37.2	25.4	16.9	15.2	5.1	0.0	0.0
70°	5611.0	2471.4	89.7	44.0	25.4	15.2	8.5	6.8	1.7	0.0	0.0
72.5°	2926.4	1267.0	69.4	32.1	15.2	10.1	5.1	1.7	0.0	0.0	0.0
75°	1035.2	431.4	50.7	20.3	10.1	5.1	1.7	0.0	0.0	0.0	0.0
77.5°	312.9	160.7	32.1	15.2	6.8	3.4	0.0	0.0	0.0	0.0	0.0
80°	110.0	59.2	18.6	10.1	5.1	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	54.1	28.8	11.8	8.5	5.1	1.7	0.0	0.0	0.0	0.0	0.0
85°	30.4	18.6	10.1	8.5	5.1	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	22.0	13.5	10.1	8.5	6.8	3.4	1.7	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)