

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: P530219

Luminaire Tested: **GALN-SA5B-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13522 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

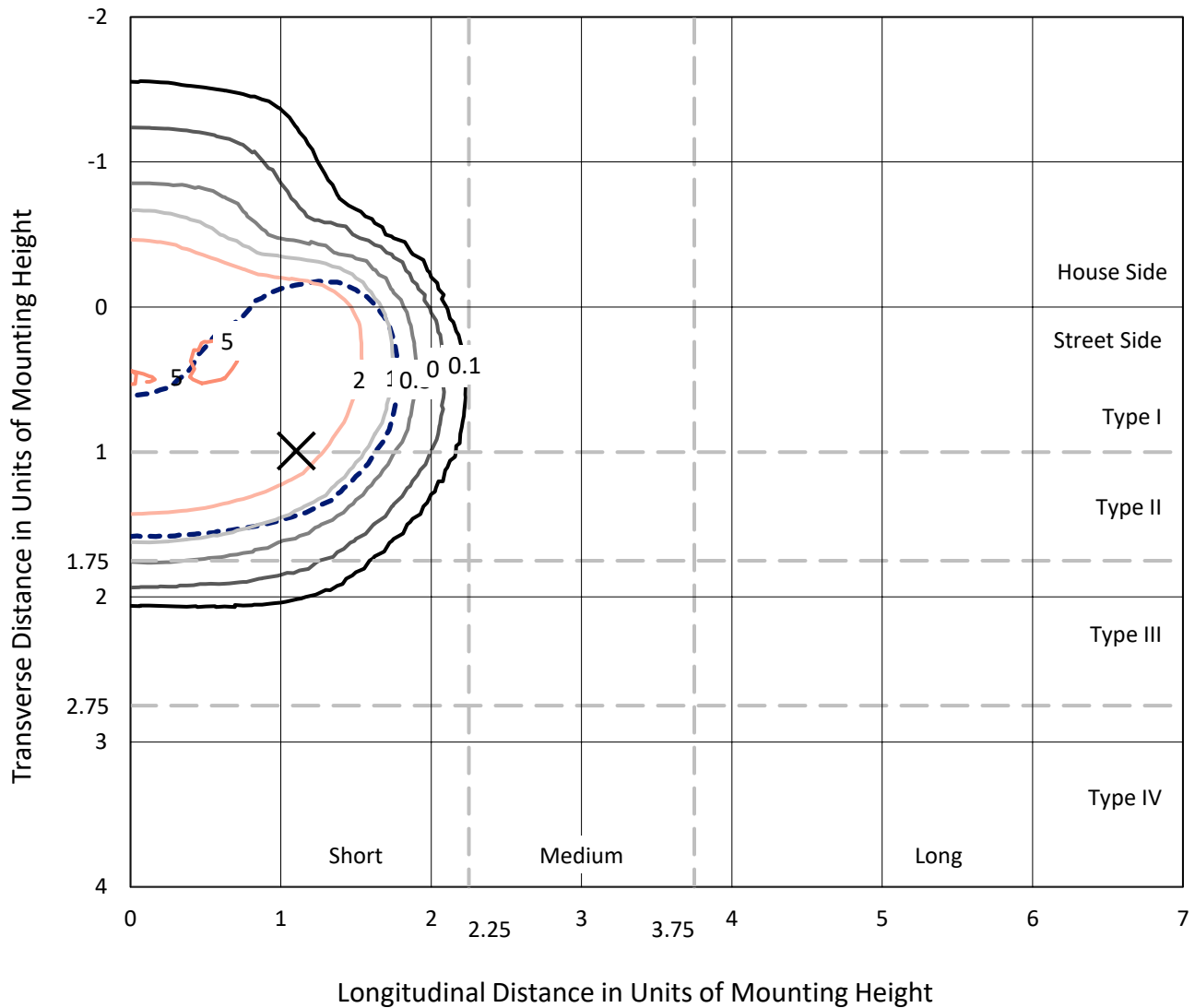
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

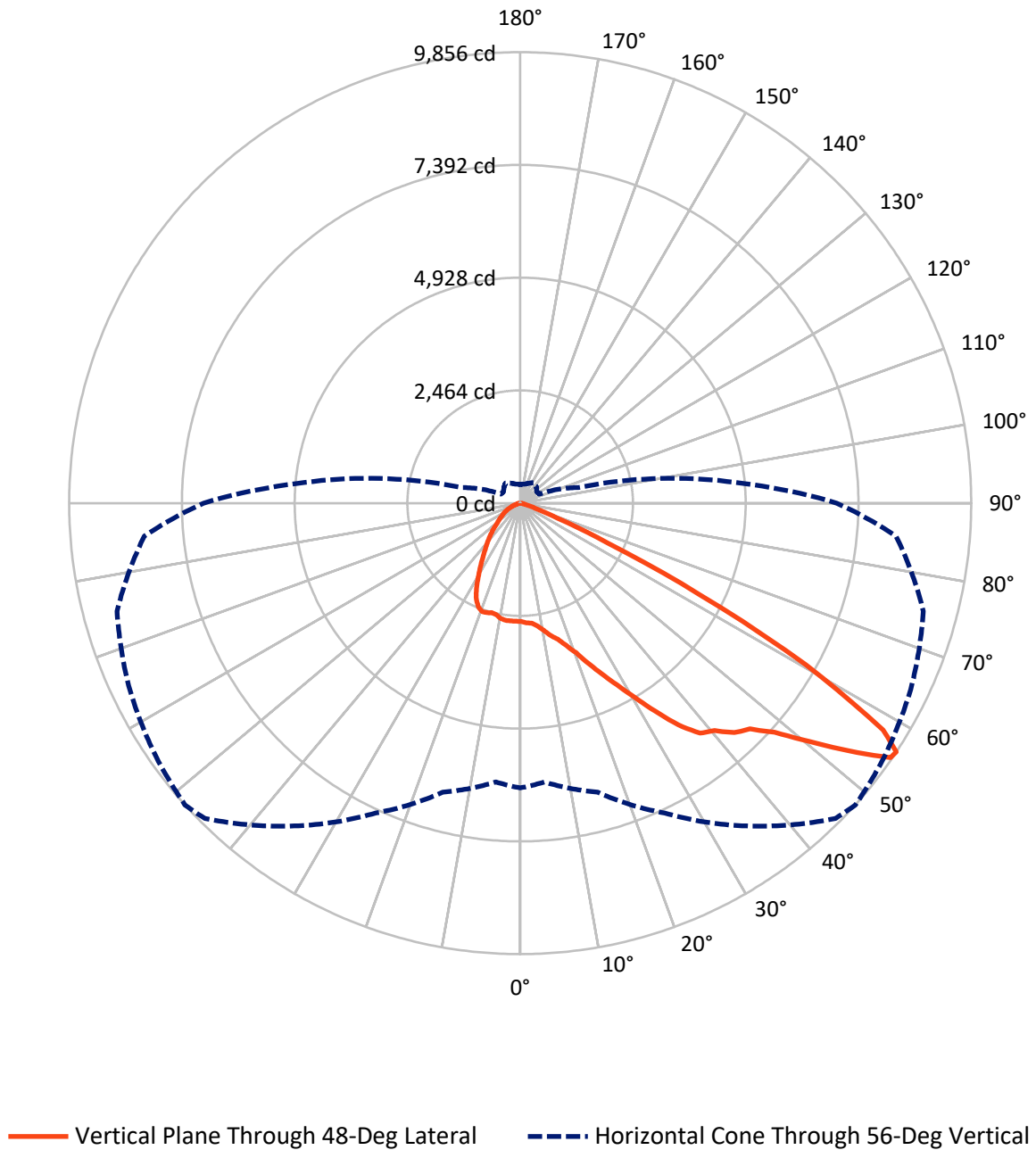
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2940.8	0.0	2940.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	10581.2	0.0	10581.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	13522.0	0.0	13522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.6	1.9
10°-20°	804.0	5.9
20°-30°	1458.3	10.8
30°-40°	2290.7	16.9
40°-50°	3341.8	24.7
50°-60°	4026.2	29.8
60°-70°	1178.8	8.7
70°-80°	149.5	1.1
80°-90°	21.0	0.2
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°	13522.0	100.0
0°-180°	13522.0	100.0

Coefficient of Utilization



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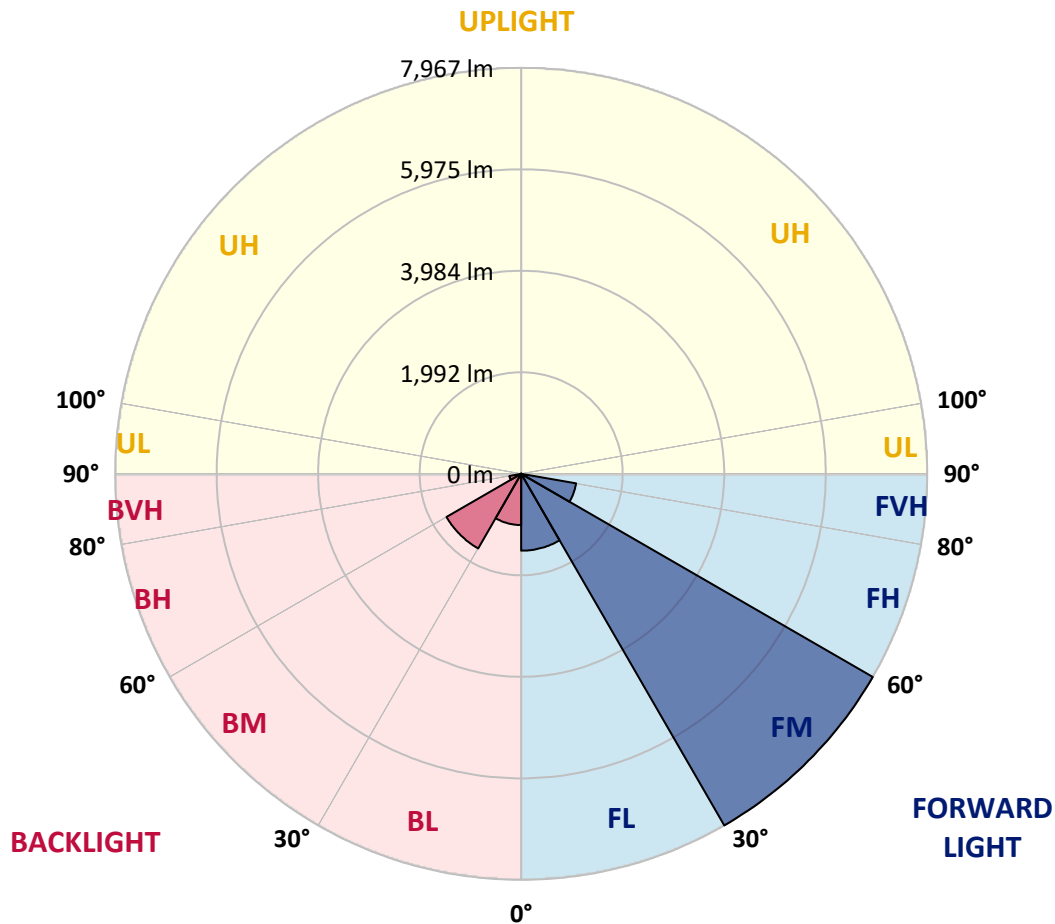
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1508.8	11.2			
FM	(30°-60°)	7967.2	58.9			
FH	(60°-80°)	1094.7	8.1			G1/1800
FVH	(80°-90°)	10.5	0.1			G1/100
BL	(0°-30°)	1005.1	7.4	B3/2500		
BM	(30°-60°)	1691.5	12.5	B2/2500		
BH	(60°-80°)	233.7	1.7	B1/500		G1/500
BVH	(80°-90°)	10.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7
2.5°	2629.5	2617.2	2617.2	2597.5	2619.6	2609.8	2617.2	2592.6	2617.2	2580.2	2609.8
5°	2641.8	2644.3	2634.4	2646.7	2646.7	2661.5	2636.9	2659.0	2671.3	2644.3	2631.9
7.5°	2705.8	2710.7	2708.3	2698.4	2718.1	2715.7	2713.2	2696.0	2700.9	2691.0	2676.3
10°	2831.4	2828.9	2841.2	2816.6	2801.8	2819.1	2824.0	2796.9	2777.2	2769.8	2723.0
12.5°	3013.6	2984.0	2966.8	2942.2	2949.6	2924.9	2969.3	2922.5	2912.6	2868.3	2821.5
15°	3161.3	3156.4	3158.8	3119.4	3075.1	3085.0	3085.0	3060.3	3045.6	2991.4	2924.9
17.5°	3464.1	3360.7	3382.9	3333.6	3296.7	3294.2	3272.1	3277.0	3237.6	3124.4	3023.4
20°	3700.5	3656.2	3621.7	3538.0	3481.4	3498.6	3488.7	3464.1	3451.8	3304.1	3161.3
22.5°	3912.2	3927.0	3870.4	3848.2	3769.4	3776.8	3796.5	3774.3	3680.8	3528.1	3316.4
25°	4210.1	4192.9	4116.6	4089.5	4015.6	4042.7	4119.0	4101.8	4042.7	3767.0	3437.0
27.5°	4562.2	4503.1	4517.9	4394.8	4323.4	4399.7	4490.8	4577.0	4409.6	4047.6	3579.8
30°	4810.9	4749.3	4744.4	4739.5	4722.2	4810.9	4916.7	4995.5	4860.1	4328.3	3816.2
32.5°	4934.0	4948.8	4990.6	4975.8	5126.0	5308.2	5419.0	5532.3	5362.4	4786.3	4128.9
35°	5261.4	5167.9	5261.4	5271.3	5426.4	5812.9	5953.3	6224.1	6182.2	5433.8	4510.5
37.5°	5453.5	5446.1	5458.4	5552.0	5702.1	6179.8	6379.2	6588.5	6509.7	5822.8	4985.7
40°	5771.1	5790.8	5788.3	5859.7	6024.7	6455.5	6536.8	6706.7	6714.1	6362.0	5684.9
42.5°	6280.7	6201.9	6150.2	6224.1	6455.5	6694.4	6856.9	6822.4	7066.1	7016.9	6583.6
45°	6738.7	6785.5	6709.1	6832.2	6915.9	7044.0	7039.0	7112.9	7423.1	7657.0	7260.6
47.5°	7167.1	7196.6	7233.6	7317.3	7499.5	7519.2	7477.3	7445.3	7873.7	8115.0	7785.1
50°	7423.1	7450.2	7622.6	7772.7	8112.5	8156.8	8181.4	8100.2	8390.7	8417.8	8279.9
52.5°	7354.2	7383.7	7625.0	8119.9	8661.6	9067.8	8993.9	8856.1	8838.8	8944.7	8737.9
55°	6743.6	6716.5	7048.9	7819.5	8833.9	9808.9	9818.7	9673.5	9395.2	9323.8	8668.9
56°	6224.1	6118.2	6541.7	7472.4	8612.3	9744.9	9855.7	9700.5	9439.6	9119.5	8243.0
57.5°	5098.9	5199.9	5620.9	6391.5	7846.6	9284.5	9348.5	9311.5	9114.6	8577.8	7253.2
60°	2811.7	2988.9	3360.7	4303.7	5586.4	7125.2	7176.9	7477.3	7514.2	6568.8	4990.6
62.5°	1194.1	1174.4	1561.0	2255.3	3181.0	4301.2	4397.3	4705.0	4761.6	3786.7	2503.9
65°	485.0	512.1	706.6	1135.0	1681.6	1959.8	2095.2	2196.2	2383.3	1563.4	923.3
67.5°	320.1	317.6	416.1	647.5	906.0	874.0	874.0	923.3	854.3	637.7	398.9
70°	229.0	236.4	297.9	448.1	563.8	418.6	401.3	384.1	435.8	421.0	322.5
72.5°	150.2	160.0	199.4	268.4	293.0	229.0	229.0	275.8	359.5	339.8	263.4
75°	98.5	100.9	123.1	155.1	145.3	118.2	130.5	184.7	261.0	251.1	187.1
77.5°	66.5	68.9	83.7	100.9	81.2	66.5	71.4	93.6	128.0	128.0	98.5
80°	24.6	27.1	34.5	32.0	36.9	46.8	51.7	64.0	76.3	76.3	66.5
82.5°	0.0	2.5	7.4	17.2	27.1	36.9	41.9	49.2	56.6	64.0	61.6
85°	0.0	2.5	7.4	12.3	19.7	22.2	24.6	17.2	14.8	14.8	12.3
87.5°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	4.9	2.5	2.5
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°	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7	2582.7
2.5°	2582.7	2580.2	2580.2	2572.9	2587.6	2580.2	2585.2	2582.7	2550.7	2575.3	2558.1
5°	2609.8	2627.0	2599.9	2595.0	2575.3	2582.7	2582.7	2558.1	2580.2	2577.8	2572.9
7.5°	2678.7	2649.2	2619.6	2590.1	2585.2	2577.8	2550.7	2540.9	2558.1	2538.4	2567.9
10°	2708.3	2713.2	2668.9	2629.5	2592.6	2540.9	2503.9	2481.8	2454.7	2484.2	2501.5
12.5°	2843.7	2794.4	2718.1	2656.6	2531.0	2479.3	2442.4	2432.5	2479.3	2489.1	2471.9
15°	2890.5	2883.1	2784.6	2646.7	2516.2	2454.7	2462.1	2442.4	2447.3	2422.7	2427.6
17.5°	2986.5	2902.8	2787.1	2614.7	2513.8	2499.0	2454.7	2375.9	2331.6	2311.9	2329.1
20°	3092.4	3011.1	2843.7	2627.0	2535.9	2496.5	2351.3	2255.3	2164.2	2114.9	2117.4
22.5°	3185.9	3085.0	2819.1	2631.9	2555.6	2393.1	2218.3	2028.7	1915.5	1839.2	1841.6
25°	3299.2	3156.4	2828.9	2641.8	2503.9	2228.2	1977.0	1792.4	1657.0	1605.3	1622.5
27.5°	3363.2	3200.7	2883.1	2664.0	2368.5	1994.3	1723.4	1551.1	1472.3	1447.7	1445.2
30°	3555.2	3299.2	2949.6	2619.6	2142.0	1743.1	1492.0	1386.1	1309.8	1287.7	1292.6
32.5°	3840.8	3478.9	3035.7	2503.9	1910.6	1519.1	1341.8	1263.0	1191.6	1149.8	1144.9
35°	4079.6	3786.7	3126.8	2324.2	1642.2	1346.8	1236.0	1137.5	1029.1	982.4	970.1
37.5°	4535.1	4133.8	3107.1	2053.4	1386.1	1218.7	1122.7	1002.1	908.5	844.5	837.1
40°	5140.8	4540.1	3011.1	1723.4	1196.6	1105.5	1002.1	886.3	770.6	716.5	711.5
42.5°	5877.0	5037.4	2836.3	1388.6	1007.0	992.2	898.7	765.7	662.3	622.9	625.4
45°	6475.2	5463.3	2659.0	1115.3	866.6	881.4	800.2	674.6	603.2	571.2	571.2
47.5°	7007.0	5751.4	2467.0	920.8	736.2	770.6	699.2	625.4	563.8	539.2	534.3
50°	7519.2	6044.4	2274.9	746.0	627.8	662.3	654.9	595.8	546.6	517.0	519.5
52.5°	7839.2	6091.2	2031.2	610.6	549.0	588.4	613.1	558.9	504.7	487.5	482.6
55°	7447.8	5487.9	1575.7	502.3	465.3	517.0	563.8	502.3	460.4	430.9	428.4
56°	6920.9	4906.9	1317.2	462.9	440.7	497.3	546.6	480.1	433.3	416.1	403.8
57.5°	5859.7	4015.6	972.5	411.2	408.7	462.9	519.5	457.9	403.8	389.0	389.0
60°	3653.7	2260.2	588.4	344.7	354.5	411.2	467.8	408.7	359.5	359.5	366.8
62.5°	1664.4	940.5	357.0	293.0	305.3	354.5	416.1	369.3	342.2	369.3	374.2
65°	566.3	406.2	258.5	233.9	241.3	293.0	357.0	374.2	371.8	389.0	398.9
67.5°	317.6	261.0	216.7	194.5	189.6	216.7	293.0	374.2	359.5	352.1	357.0
70°	268.4	221.6	192.0	172.3	165.0	174.8	226.5	283.1	253.6	246.2	241.3
72.5°	216.7	184.7	167.4	155.1	133.0	113.3	103.4	108.3	120.6	128.0	140.3
75°	152.6	140.3	140.3	125.6	96.0	71.4	56.6	46.8	32.0	22.2	24.6
77.5°	86.2	86.2	88.6	76.3	61.6	46.8	34.5	24.6	12.3	4.9	2.5
80°	59.1	64.0	68.9	61.6	51.7	41.9	29.5	17.2	7.4	0.0	0.0
82.5°	59.1	66.5	71.4	61.6	51.7	39.4	29.5	17.2	7.4	2.5	0.0
85°	12.3	14.8	17.2	19.7	29.5	29.5	22.2	14.8	7.4	2.5	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	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)