

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: P527869

Luminaire Tested: **GALN-SA2D-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7229 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - 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



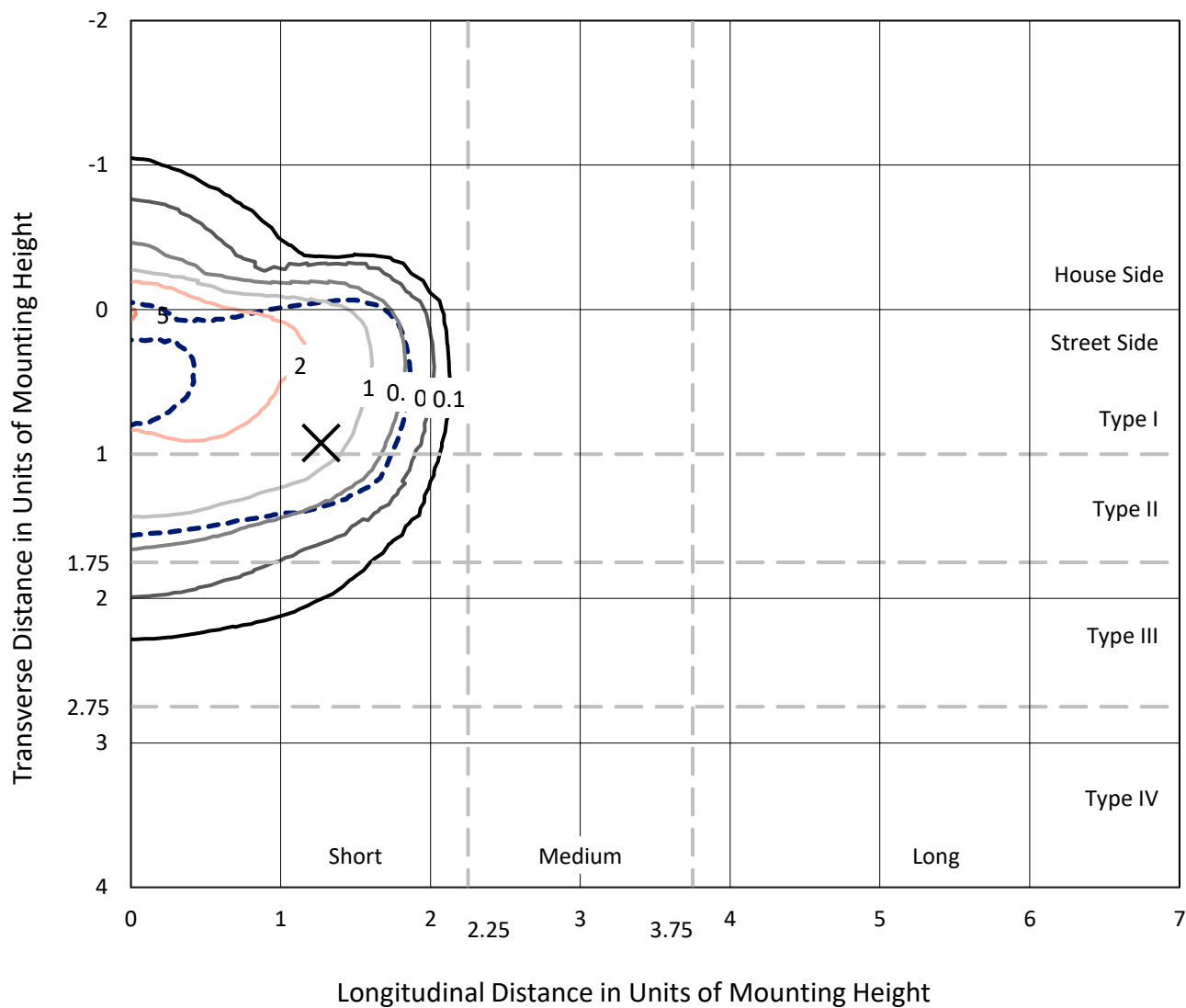
REPORT NUMBER: P527869

CATALOG NUMBER: GALN-SA2D-830-U-SL3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

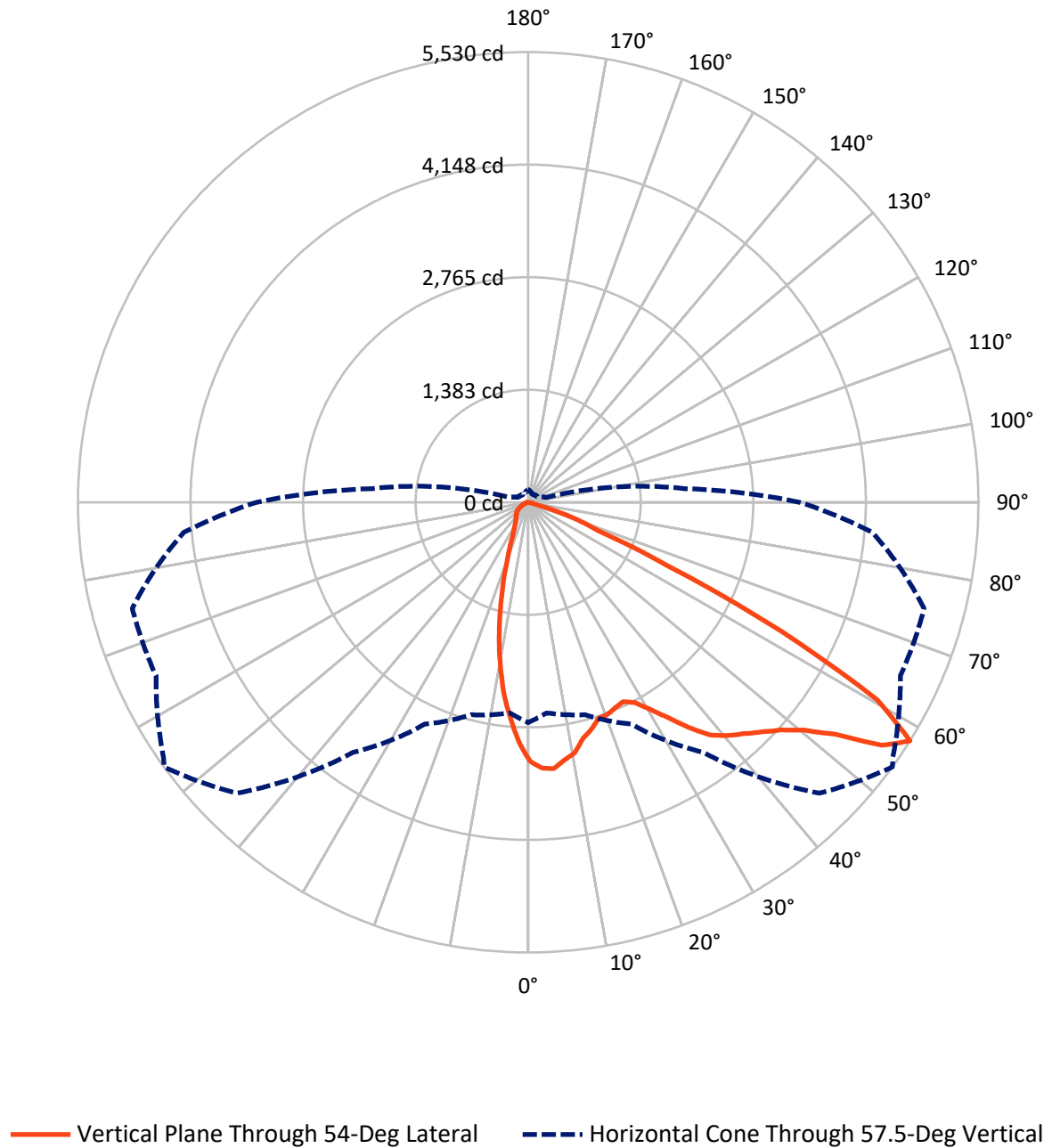


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

REPORT NUMBER: P527869

CATALOG NUMBER: GALN-SA2D-830-U-SL3-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P527869

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1021.6	0.0	1021.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	6207.4	0.0	6207.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	7229.0	0.0	7229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.5	3.7
10°-20°	568.9	7.9
20°-30°	754.0	10.4
30°-40°	1095.7	15.2
40°-50°	1624.8	22.5
50°-60°	2031.7	28.1
60°-70°	801.4	11.1
70°-80°	79.8	1.1
80°-90°	6.2	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°	7229.0	100.0
0°-180°	7229.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527869

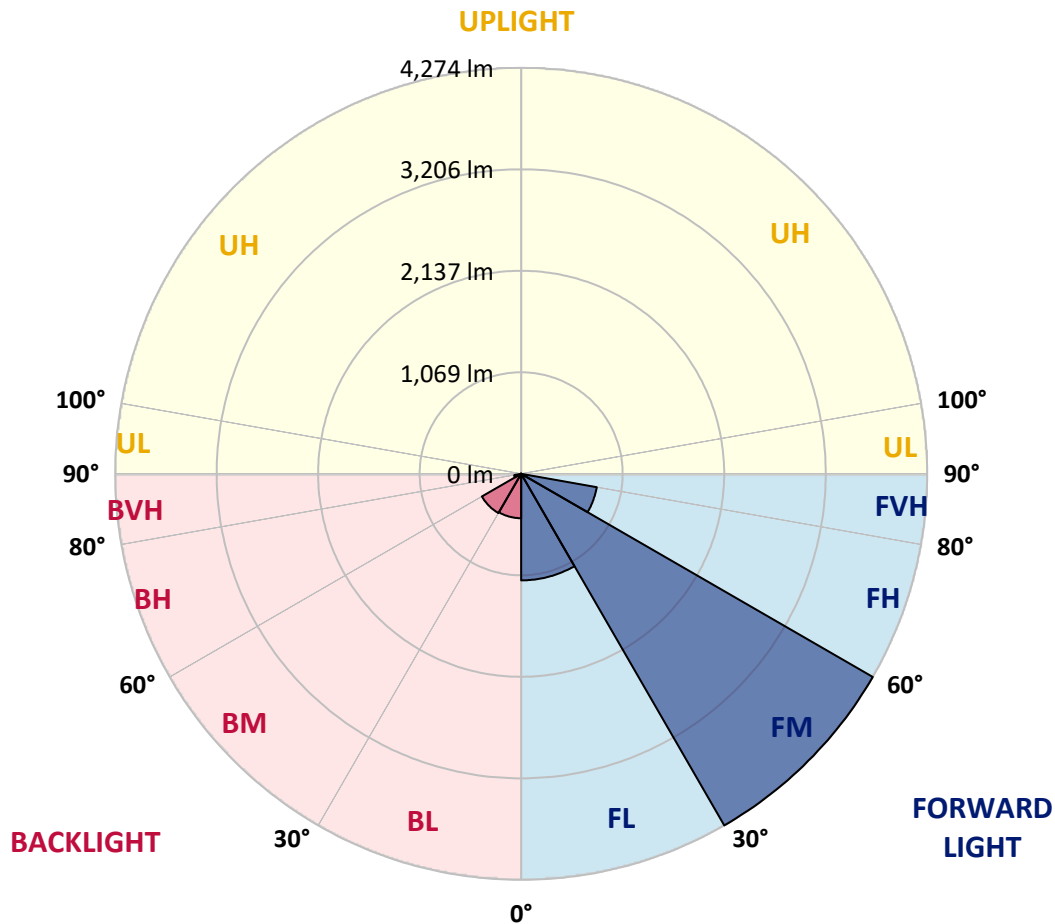
CATALOG NUMBER: GALN-SA2D-830-U-SL3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1122.2	15.5			
FM	(30°-60°)	4274.5	59.1			
FH	(60°-80°)	808.0	11.2			G1/1800
FVH	(80°-90°)	2.8	0.0			G0/10
BL	(0°-30°)	467.2	6.5	B1/500		
BM	(30°-60°)	477.7	6.6	B1/1000		
BH	(60°-80°)	73.3	1.0	B0/110		G0/110
BVH	(80°-90°)	3.4	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-G1

Type II Short



REPORT NUMBER: P527869

CATALOG NUMBER: GALN-SA2D-830-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5
2.5°	3370.0	3335.0	3337.7	3325.6	3309.5	3321.6	3269.2	3281.3	3279.9	3208.7	3161.6
5°	3285.3	3322.9	3283.9	3316.2	3285.3	3318.9	3286.6	3262.4	3223.5	3171.0	3083.7
7.5°	3141.5	3105.2	3115.9	3156.2	3163.0	3238.2	3197.9	3228.8	3212.7	3109.2	2989.6
10°	2852.4	2844.4	2898.2	2951.9	3017.8	3098.4	3129.4	3111.9	3099.8	3060.8	2900.8
12.5°	2630.7	2653.5	2652.2	2740.9	2852.4	2898.2	2978.8	2976.1	3043.3	2970.7	2817.5
15°	2419.6	2431.7	2488.2	2543.3	2666.9	2797.3	2896.8	2910.2	2990.9	2939.8	2753.0
17.5°	2290.6	2273.1	2317.4	2383.3	2509.7	2680.4	2790.6	2822.9	2933.1	2922.3	2679.0
20°	2162.9	2162.9	2199.2	2277.1	2392.7	2584.9	2781.2	2771.8	2933.1	2902.2	2599.7
22.5°	2119.8	2141.4	2150.8	2209.9	2347.0	2512.4	2740.9	2758.4	2956.0	2892.8	2564.8
25°	2179.0	2150.8	2153.5	2200.5	2329.5	2477.4	2711.3	2750.3	2997.6	2939.8	2536.6
27.5°	2188.4	2216.6	2224.7	2257.0	2343.0	2488.2	2785.2	2864.5	3101.1	3050.0	2544.6
30°	2270.4	2298.6	2297.3	2352.4	2411.5	2575.5	2950.6	2966.7	3314.9	3188.5	2594.4
32.5°	2369.9	2399.4	2408.9	2473.4	2520.4	2735.5	3152.2	3193.9	3520.5	3406.3	2724.7
35°	2493.5	2482.8	2525.8	2590.3	2691.1	2969.4	3398.2	3468.1	3742.3	3688.6	2859.2
37.5°	2648.1	2634.7	2676.4	2781.2	2918.3	3246.3	3625.4	3671.1	3903.6	3950.7	3107.9
40°	2757.0	2762.4	2888.7	3029.9	3175.1	3509.8	3769.2	3813.6	4016.5	4195.3	3296.0
42.5°	2938.5	2972.1	3124.0	3296.0	3447.9	3707.4	3886.2	3929.2	4069.0	4391.6	3550.1
45°	3201.9	3187.2	3355.2	3547.4	3715.4	3913.0	4024.6	4009.8	4099.9	4586.5	3710.1
47.5°	3540.7	3543.4	3655.0	3818.9	3993.7	4091.8	4179.2	4126.8	4164.4	4792.2	3923.8
50°	3771.9	3792.1	3882.1	4050.2	4137.5	4288.1	4399.7	4367.4	4355.3	4915.8	4058.2
52.5°	3831.0	3891.5	3939.9	4149.6	4353.9	4591.9	4734.4	4802.9	4587.8	4957.5	4228.9
55°	3384.8	3438.5	3609.2	3896.9	4435.9	5073.1	5269.4	5270.7	4891.6	5143.0	4348.6
57.5°	2705.9	2597.0	2701.9	3007.0	3750.4	5052.9	5530.1	5467.0	5043.5	5034.1	4245.1
60°	1871.2	1844.3	1851.0	1972.0	2595.7	4019.2	4927.9	5009.9	4644.3	4363.4	3360.6
62.5°	1482.7	1459.8	1430.3	1416.8	1611.7	2504.3	3476.2	3591.8	3247.7	2829.6	1992.1
65°	1161.4	1148.0	1152.0	1205.8	1204.4	1420.8	1900.7	1853.7	1484.0	1096.9	626.4
67.5°	783.7	803.8	820.0	982.6	1066.0	989.4	918.1	891.2	482.6	203.0	138.5
70°	440.9	443.6	461.1	614.3	809.2	767.6	633.1	633.1	240.6	73.9	79.3
72.5°	240.6	232.6	216.4	264.8	360.3	365.6	282.3	246.0	71.2	48.4	44.4
75°	116.9	115.6	99.5	82.0	78.0	64.5	49.7	45.7	32.3	30.9	26.9
77.5°	24.2	22.9	12.1	12.1	13.4	14.8	18.8	18.8	22.9	22.9	18.8
80°	0.0	0.0	1.3	5.4	9.4	13.4	16.1	16.1	18.8	18.8	14.8
82.5°	0.0	0.0	1.3	4.0	8.1	12.1	14.8	16.1	18.8	20.2	16.1
85°	0.0	0.0	0.0	2.7	6.7	9.4	8.1	8.1	6.7	5.4	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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

REPORT NUMBER: P527869

CATALOG NUMBER: GALN-SA2D-830-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5
2.5°	3137.4	3134.7	3072.9	3038.0	2974.8	2919.7	2875.3	2843.0	2843.0	2822.9	2804.1
5°	3048.7	3025.9	2894.1	2809.4	2689.8	2601.1	2540.6	2493.5	2419.6	2439.8	2360.5
7.5°	2938.5	2880.7	2705.9	2576.9	2411.5	2285.2	2156.1	2041.9	1931.7	1881.9	1908.8
10°	2820.2	2719.4	2484.1	2279.8	2074.1	1842.9	1692.4	1509.6	1396.7	1389.9	1360.4
12.5°	2695.2	2580.9	2294.6	2012.3	1742.1	1463.9	1234.0	1063.3	986.7	902.0	918.1
15°	2601.1	2431.7	2083.6	1743.5	1384.6	1103.6	872.4	740.7	668.1	647.9	641.2
17.5°	2498.9	2317.4	1868.5	1457.1	1086.1	794.4	627.8	564.6	536.3	536.3	532.3
20°	2392.7	2188.4	1654.7	1191.0	814.6	592.8	502.7	482.6	481.2	479.9	479.9
22.5°	2322.8	2040.5	1461.2	946.3	614.3	474.5	436.9	428.8	434.2	450.3	450.3
25°	2248.9	1898.0	1247.4	729.9	475.9	407.3	385.8	391.2	404.6	419.4	414.0
27.5°	2173.6	1805.3	1045.8	572.6	389.8	356.2	348.2	360.3	375.0	388.5	384.4
30°	2156.1	1705.8	854.9	434.2	334.7	310.5	315.9	326.6	341.4	346.8	352.2
32.5°	2183.0	1627.9	700.3	356.2	291.7	285.0	285.0	290.4	299.8	311.9	307.8
35°	2259.6	1583.5	553.8	309.2	267.5	260.8	259.4	264.8	270.2	274.2	270.2
37.5°	2376.6	1548.5	453.0	274.2	251.4	240.6	237.9	236.6	242.0	243.3	246.0
40°	2525.8	1567.4	384.4	252.7	235.2	223.1	215.1	215.1	215.1	219.1	220.5
42.5°	2687.1	1592.9	332.0	240.6	220.5	205.7	197.6	194.9	197.6	203.0	201.6
45°	2856.5	1642.6	298.4	221.8	207.0	188.2	177.4	174.7	181.5	192.2	190.9
47.5°	3015.1	1713.9	272.9	209.7	193.6	176.1	162.7	160.0	172.1	186.8	188.2
50°	3173.7	1837.6	263.5	200.3	184.2	164.0	151.9	149.2	162.7	181.5	185.5
52.5°	3356.5	1970.6	256.7	188.2	173.4	154.6	141.1	138.5	153.2	177.4	178.8
55°	3476.2	2083.6	251.4	166.7	153.2	139.8	129.0	127.7	143.8	165.3	170.7
57.5°	3336.4	1926.3	232.6	145.2	130.4	123.7	114.3	114.3	127.7	147.9	151.9
60°	2529.8	1267.6	165.3	116.9	110.2	106.2	102.2	102.2	112.9	127.7	129.0
62.5°	1481.3	682.9	106.2	94.1	94.1	90.1	83.3	83.3	94.1	102.2	103.5
65°	439.6	219.1	86.0	80.7	79.3	72.6	65.9	64.5	72.6	76.6	75.3
67.5°	126.4	100.8	71.2	67.2	65.9	55.1	51.1	49.7	51.1	48.4	47.0
70°	75.3	68.6	55.1	56.5	49.7	40.3	36.3	34.9	32.3	28.2	25.5
72.5°	41.7	41.7	40.3	43.0	34.9	26.9	22.9	18.8	14.8	12.1	10.8
75°	25.5	26.9	28.2	29.6	22.9	17.5	14.8	9.4	5.4	2.7	2.7
77.5°	17.5	18.8	20.2	21.5	18.8	16.1	12.1	6.7	1.3	0.0	0.0
80°	13.4	14.8	17.5	18.8	20.2	21.5	16.1	6.7	1.3	0.0	0.0
82.5°	14.8	16.1	20.2	18.8	18.8	18.8	14.8	6.7	1.3	0.0	0.0
85°	2.7	4.0	6.7	6.7	9.4	12.1	9.4	2.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)