

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: P452695

Luminaire Tested: **GALN-SA3C-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16325 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 160
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

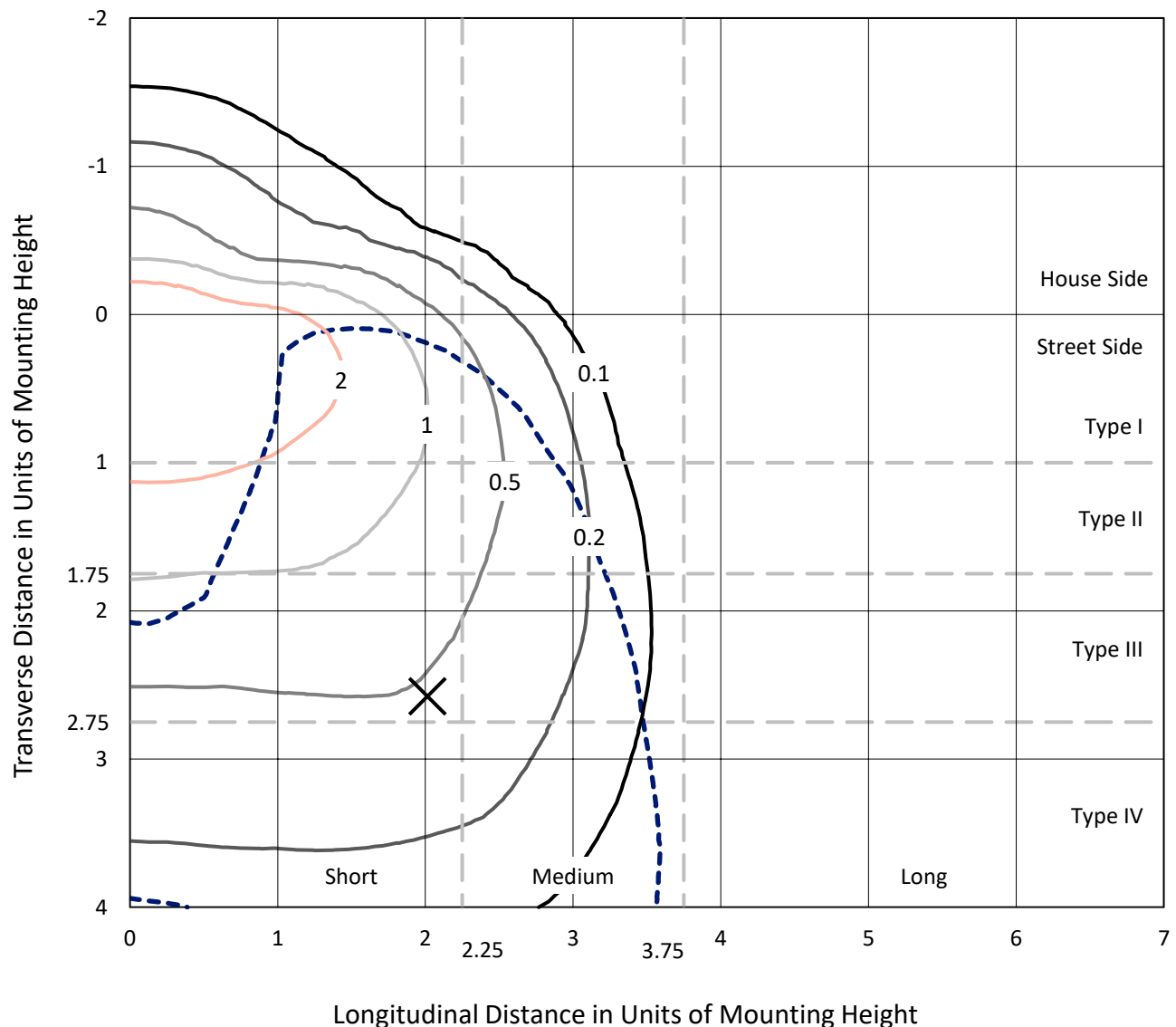


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Iso-Footcandle Lines of Horizontal Illumination

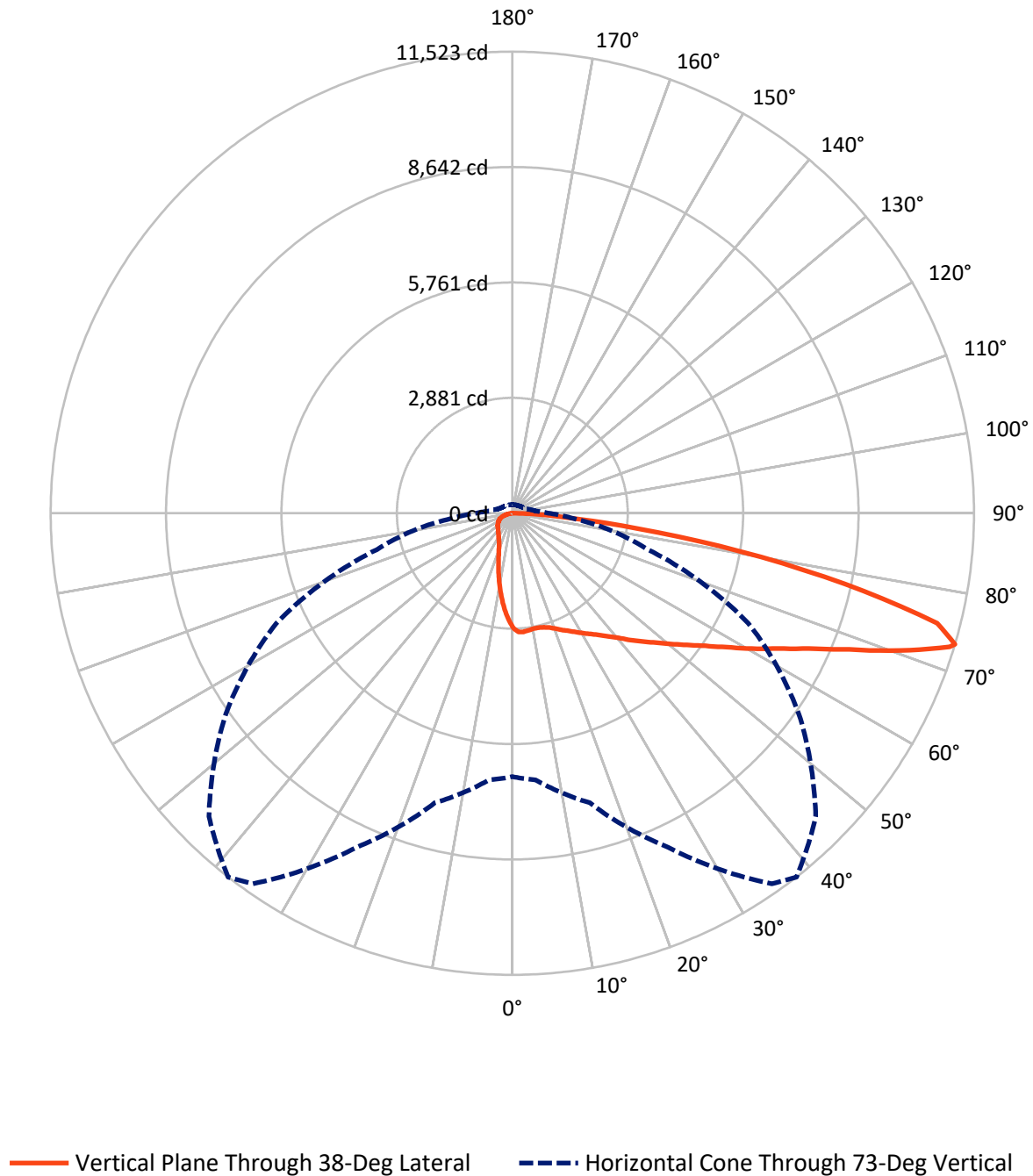
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2194.6	0.0	2194.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	14130.4	0.0	14130.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	16325.0	0.0	16325.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.3	1.5
10°-20°	642.0	3.9
20°-30°	999.7	6.1
30°-40°	1466.3	9.0
40°-50°	2175.1	13.3
50°-60°	3081.7	18.9
60°-70°	3909.2	23.9
70°-80°	3254.1	19.9
80°-90°	546.7	3.3
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°	16325.0	100.0
0°-180°	16325.0	100.0

Coefficient of Utilization



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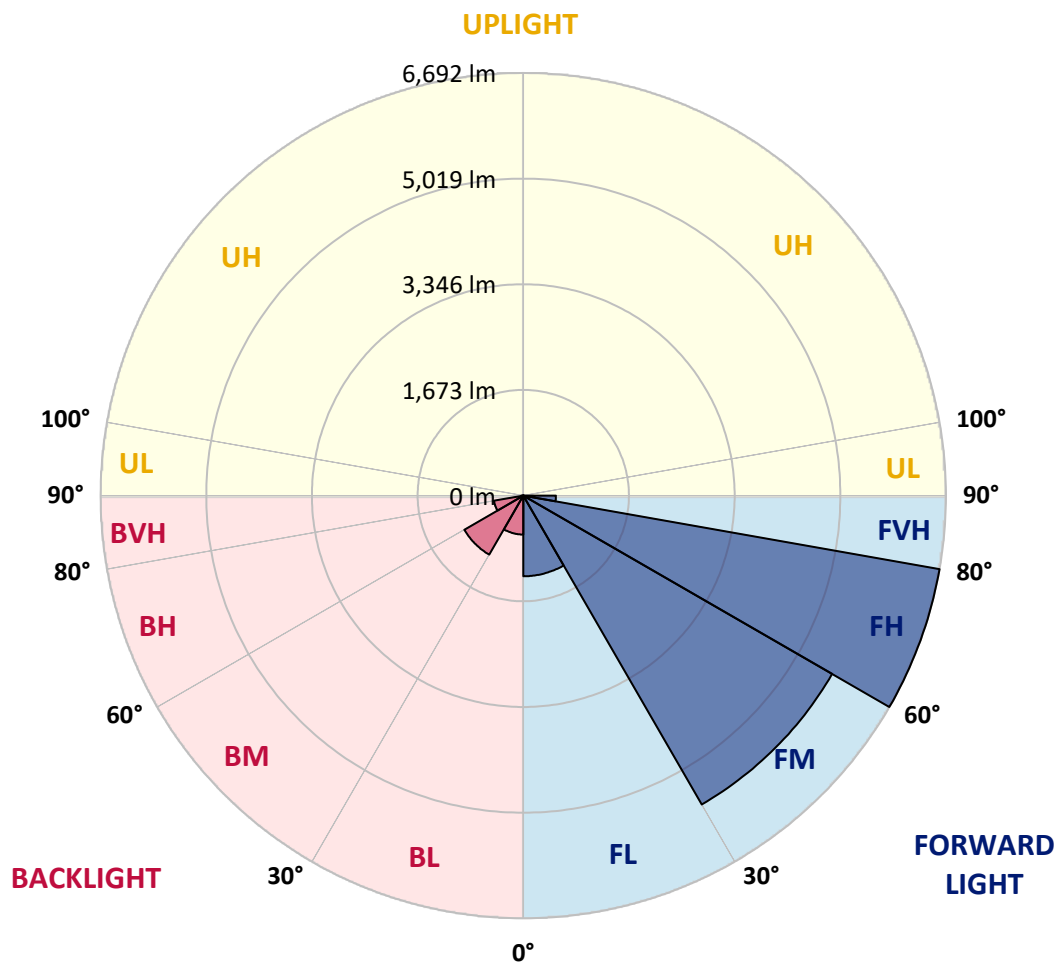
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1276.2	7.8			
FM	(30°-60°)	5645.6	34.6			
FH	(60°-80°)	6691.6	41.0			G3/7500
FVH	(80°-90°)	517.1	3.2			G4/750
BL	(0°-30°)	615.8	3.8	B2/1000		
BM	(30°-60°)	1077.4	6.6	B2/2500		
BH	(60°-80°)	471.7	2.9	B1/500		G1/500
BVH	(80°-90°)	29.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2868.0	2868.0	2868.0	2868.0	2868.0	2868.0	2868.0	2868.0	2868.0	2868.0	2868.0
2.5°	2983.3	2998.0	2990.6	2980.5	2974.0	2967.6	2958.4	2931.6	2910.4	2887.4	2851.4
5°	3005.4	3014.6	3008.2	2995.2	2980.5	2974.0	2956.5	2921.5	2887.4	2848.7	2795.2
7.5°	2992.5	2996.2	2988.8	2973.1	2960.2	2948.2	2927.9	2889.2	2847.7	2800.7	2730.7
10°	2946.4	2960.2	2960.2	2947.3	2934.4	2927.9	2907.7	2870.8	2833.0	2779.5	2696.6
12.5°	2908.6	2923.3	2935.3	2931.6	2930.7	2930.7	2915.0	2887.4	2843.1	2792.4	2693.8
15°	2882.8	2900.3	2926.1	2940.9	2950.1	2952.8	2946.4	2922.4	2877.2	2818.2	2704.8
17.5°	2877.2	2898.4	2945.5	2977.7	3001.7	3000.8	2998.9	2965.7	2916.0	2855.1	2718.7
20°	2902.1	2929.8	2995.2	3046.0	3081.0	3074.5	3064.4	3021.1	2963.0	2894.8	2731.6
22.5°	2976.8	3005.4	3077.3	3132.6	3166.7	3166.7	3136.3	3079.1	3017.4	2940.9	2749.1
25°	3083.8	3115.1	3191.6	3247.8	3263.5	3251.5	3221.1	3152.0	3081.0	3007.2	2786.0
27.5°	3214.7	3252.5	3323.4	3370.5	3365.9	3356.6	3325.3	3236.8	3165.8	3098.5	2848.7
30°	3377.8	3405.5	3479.2	3490.3	3473.7	3471.9	3427.6	3339.1	3272.7	3221.1	2938.1
32.5°	3531.8	3556.7	3615.7	3620.3	3590.8	3594.5	3553.0	3471.9	3434.1	3415.6	3088.4
35°	3695.0	3707.9	3758.6	3753.0	3733.7	3730.9	3714.3	3636.9	3648.9	3682.1	3301.3
37.5°	3831.4	3857.2	3885.8	3890.4	3889.5	3898.7	3909.8	3872.9	3942.0	4046.2	3580.7
40°	3956.8	3978.9	4021.3	4036.1	4072.0	4090.5	4128.3	4129.2	4288.7	4460.1	3924.5
42.5°	4041.6	4079.4	4158.7	4185.4	4273.0	4328.3	4384.5	4444.5	4675.9	4896.2	4330.2
45°	4115.4	4165.1	4297.0	4379.9	4498.9	4566.2	4685.1	4810.5	5143.3	5431.8	4742.2
47.5°	4226.9	4271.2	4422.3	4568.9	4748.7	4826.1	5004.1	5191.2	5626.3	5942.6	5136.8
50°	4381.8	4408.5	4562.5	4801.2	5030.8	5130.4	5365.4	5635.6	6142.6	6446.8	5483.5
52.5°	4580.0	4591.1	4713.7	5031.7	5334.1	5457.6	5769.2	6084.5	6594.3	6884.7	5758.2
55°	4814.2	4795.7	4891.6	5276.0	5680.7	5842.1	6176.7	6539.0	7102.3	7238.7	5958.2
57.5°	5045.5	5017.0	5093.5	5572.9	6108.5	6303.0	6693.0	7007.3	7555.9	7569.7	6098.4
60°	5290.8	5269.6	5360.8	5921.4	6633.1	6863.5	7224.0	7493.2	7994.7	7800.2	6120.5
62.5°	5542.5	5508.3	5638.3	6313.2	7224.0	7433.3	7782.7	8009.5	8425.2	7885.9	5907.5
65°	5786.8	5771.1	5972.1	6778.7	7897.0	8134.8	8474.1	8628.0	8770.0	7756.9	5379.3
67.5°	6046.7	6078.1	6398.9	7400.1	8774.6	9073.3	9439.3	9294.6	8868.7	7145.6	4530.2
70°	6443.1	6463.4	6959.4	8214.1	9905.8	10266.3	10443.3	9531.5	8393.0	5985.0	3405.5
72.5°	6613.7	6703.1	7460.0	9068.7	11190.9	11411.3	10780.7	9003.3	6991.7	4065.6	1789.4
73°	6575.9	6682.8	7483.0	9198.7	11291.4	11522.8	10708.8	8731.3	6499.4	3501.4	1534.0
75°	6104.8	6236.6	7183.4	9089.9	11096.0	10957.7	9552.7	7441.6	4391.9	1592.1	698.8
77.5°	4816.9	4854.7	5691.8	7340.2	8737.8	8481.5	7149.3	4651.0	1794.0	591.9	396.4
80°	2416.3	2555.5	3208.2	4204.8	5843.0	5759.1	4512.7	2199.6	747.7	347.6	262.7
82.5°	1162.5	1261.2	1562.6	2050.3	3228.5	3152.0	2234.7	1202.2	474.8	202.8	154.9
85°	748.6	822.3	994.7	978.1	1327.5	1267.6	1003.9	909.9	281.2	106.0	107.9
87.5°	494.1	541.2	649.0	519.0	483.1	437.0	443.4	512.6	55.3	40.6	14.8
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°	2868.0	2868.0	2868.0	2868.0	2868.0	2868.0	2868.0	2868.0	2868.0	2868.0	2868.0
2.5°	2836.7	2824.7	2785.1	2746.3	2709.5	2674.4	2651.4	2621.0	2600.7	2606.2	2614.5
5°	2765.7	2739.0	2668.9	2600.7	2536.1	2459.6	2397.9	2348.1	2310.3	2296.4	2293.7
7.5°	2691.0	2645.8	2545.4	2428.3	2318.6	2223.6	2113.9	2059.5	1995.9	1973.8	1966.4
10°	2645.8	2585.0	2444.0	2280.8	2115.8	1958.1	1839.2	1742.4	1654.8	1638.2	1629.9
12.5°	2632.9	2552.7	2362.8	2152.6	1933.2	1739.6	1563.5	1436.3	1351.5	1332.1	1303.6
15°	2625.6	2526.0	2287.2	2023.6	1745.2	1509.1	1323.8	1175.4	1098.0	1046.4	1047.3
17.5°	2619.1	2495.6	2202.4	1882.5	1582.9	1310.9	1106.3	972.6	901.6	874.0	871.2
20°	2609.9	2459.6	2104.7	1734.1	1397.6	1130.2	944.9	845.4	797.4	774.4	773.5
22.5°	2606.2	2424.6	2008.8	1582.9	1233.5	991.0	838.0	767.9	737.5	721.8	721.8
25°	2615.4	2399.7	1908.3	1439.1	1087.8	872.1	764.3	716.3	698.8	690.5	687.7
27.5°	2644.0	2388.6	1808.8	1295.3	954.2	791.0	714.5	681.3	668.4	661.9	662.8
30°	2698.4	2387.7	1711.0	1153.3	854.6	729.2	674.8	651.8	641.6	638.0	637.0
32.5°	2786.0	2408.0	1615.2	1036.2	770.7	677.6	638.0	621.4	616.8	614.0	613.1
35°	2934.4	2465.2	1520.2	929.3	706.2	631.5	602.9	594.6	588.2	590.9	591.9
37.5°	3134.5	2563.8	1429.9	845.4	657.3	597.4	573.4	566.0	562.4	565.1	567.9
40°	3402.7	2705.8	1354.3	778.1	622.3	568.8	547.6	541.2	537.5	542.1	543.0
42.5°	3698.7	2869.9	1291.6	725.5	593.7	544.8	524.6	517.2	514.4	517.2	518.1
45°	4002.9	3060.7	1259.3	687.7	569.7	527.3	506.1	497.8	491.4	489.5	492.3
47.5°	4302.5	3226.6	1258.4	664.7	550.4	511.7	488.6	479.4	471.1	466.5	465.6
50°	4546.8	3358.5	1280.5	654.5	533.8	494.1	471.1	461.9	450.8	441.6	443.4
52.5°	4731.2	3444.2	1290.7	649.9	524.6	475.7	452.7	444.4	431.4	419.5	419.5
55°	4850.1	3464.5	1265.8	645.3	517.2	456.3	431.4	424.1	411.2	399.2	399.2
57.5°	4890.7	3401.8	1176.3	634.3	509.8	439.7	410.2	403.8	393.7	381.7	379.8
60°	4796.6	3189.8	1019.6	601.1	495.1	422.2	387.2	384.4	380.7	370.6	369.7
62.5°	4434.3	2739.9	849.1	557.7	470.2	403.8	366.0	370.6	373.4	367.8	366.9
65°	3831.4	2224.5	725.5	497.8	437.0	378.0	342.9	354.9	362.3	362.3	360.5
67.5°	3107.7	1708.3	611.2	446.2	395.5	342.9	317.1	326.4	331.9	330.0	334.6
70°	2208.9	1157.0	497.8	387.2	342.9	303.3	283.9	283.9	280.3	278.4	278.4
72.5°	1071.2	661.0	403.8	323.6	292.2	259.1	243.4	236.9	229.6	228.6	224.0
73°	895.2	592.8	385.4	311.6	280.3	252.6	235.1	224.9	220.3	216.6	215.7
75°	544.8	449.9	321.7	262.7	238.8	217.6	201.9	192.7	188.1	185.3	184.4
77.5°	358.6	335.6	249.8	201.0	182.5	169.6	163.2	154.0	151.2	147.5	147.5
80°	267.4	256.3	178.8	142.0	130.9	119.8	118.0	116.2	108.8	104.2	102.3
82.5°	172.4	182.5	121.7	95.0	83.0	73.8	74.7	77.4	70.1	63.6	61.8
85°	122.6	131.8	73.8	43.3	35.0	30.4	34.1	30.4	31.3	24.9	20.3
87.5°	20.3	35.0	12.9	5.5	2.8	1.8	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)