

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: P453100

Luminaire Tested: **GALN-SA4A-760-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-760-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14881 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

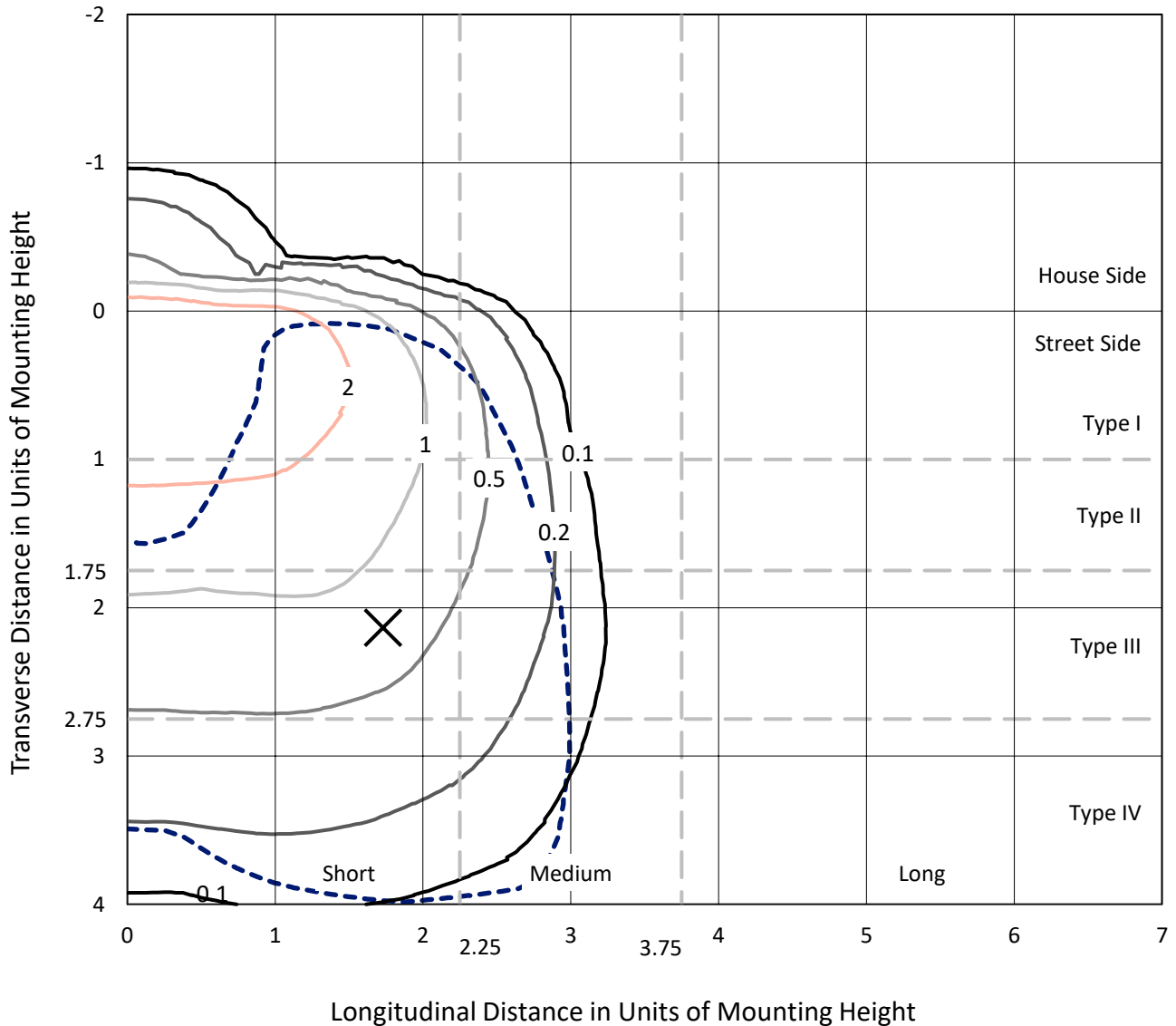
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

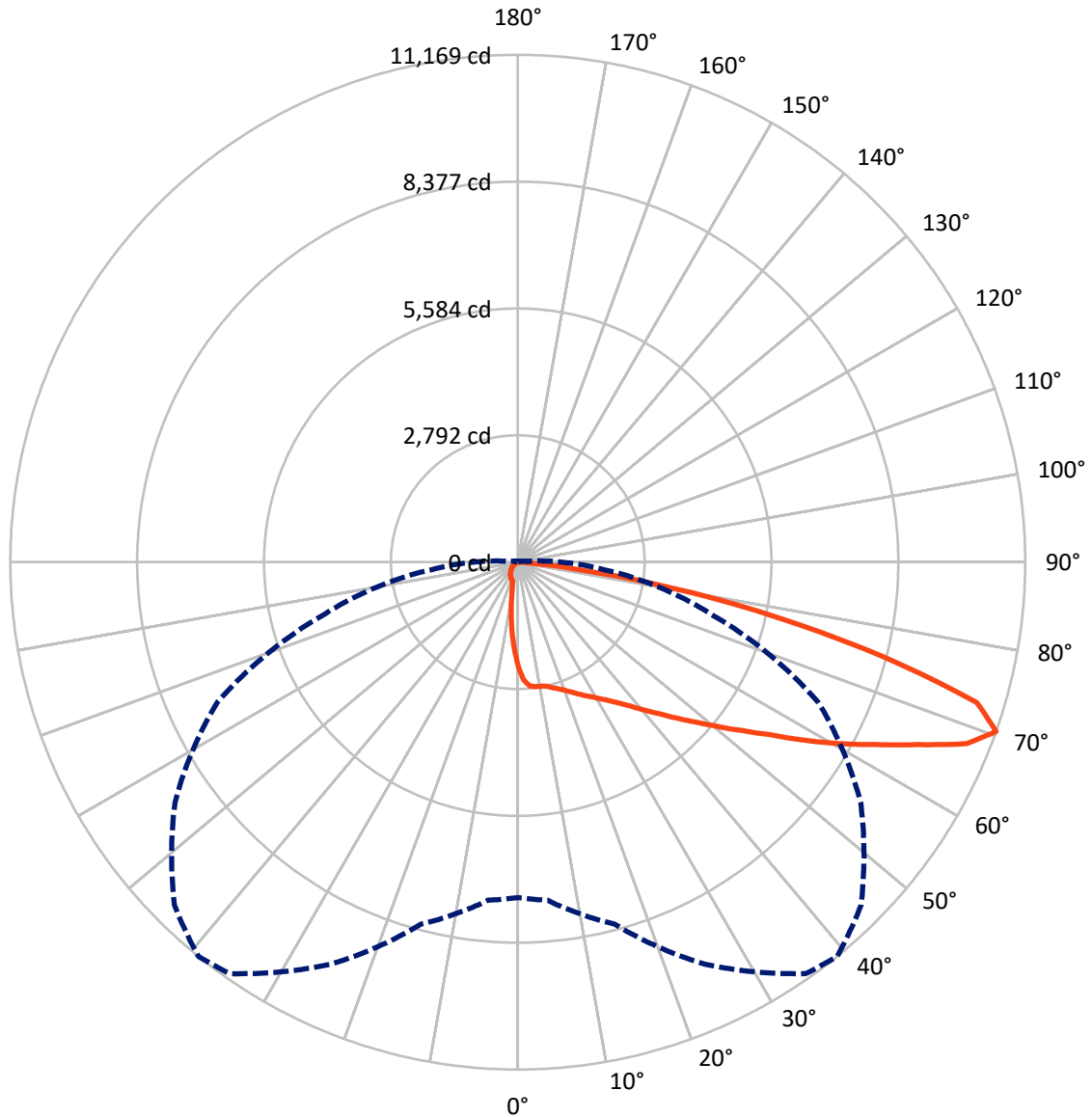
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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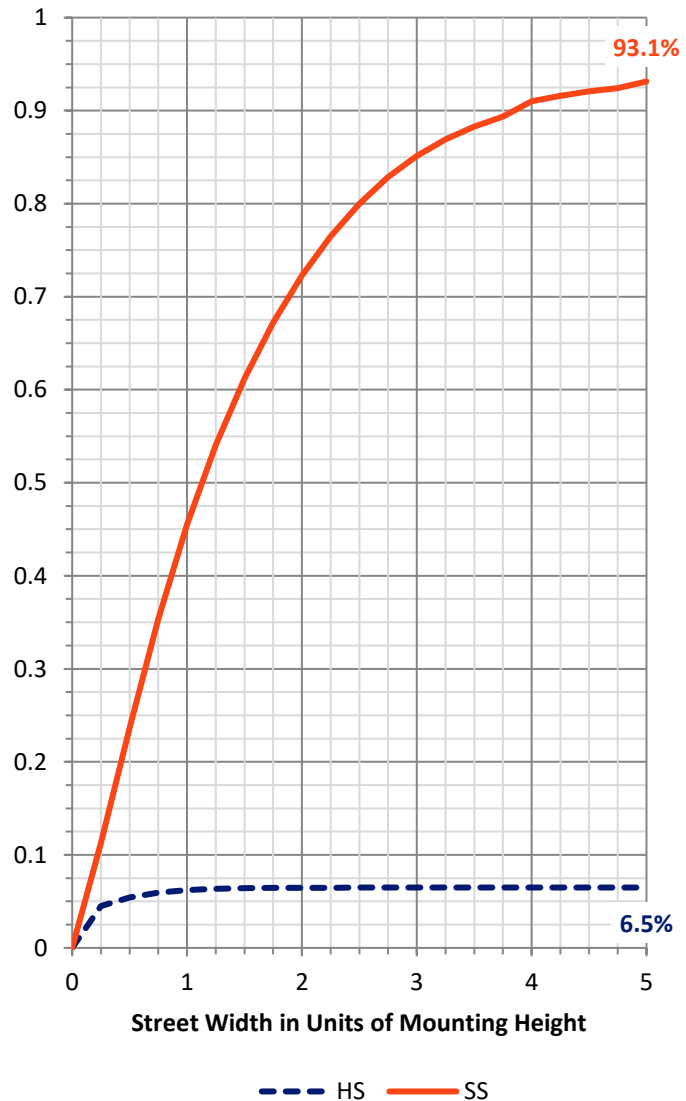
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	970.3	0.0	970.3
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	13910.7	0.0	13910.7
	% Fixture	93.5	0.0	93.5
Total	Lumens	14881.0	0.0	14881.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	1.3
10°-20°	514.7	3.5
20°-30°	862.2	5.8
30°-40°	1337.2	9.0
40°-50°	2119.0	14.2
50°-60°	3106.2	20.9
60°-70°	3981.4	26.8
70°-80°	2501.8	16.8
80°-90°	260.6	1.8
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°	14881.0	100.0
0°-180°	14881.0	100.0

Coefficient of Utilization



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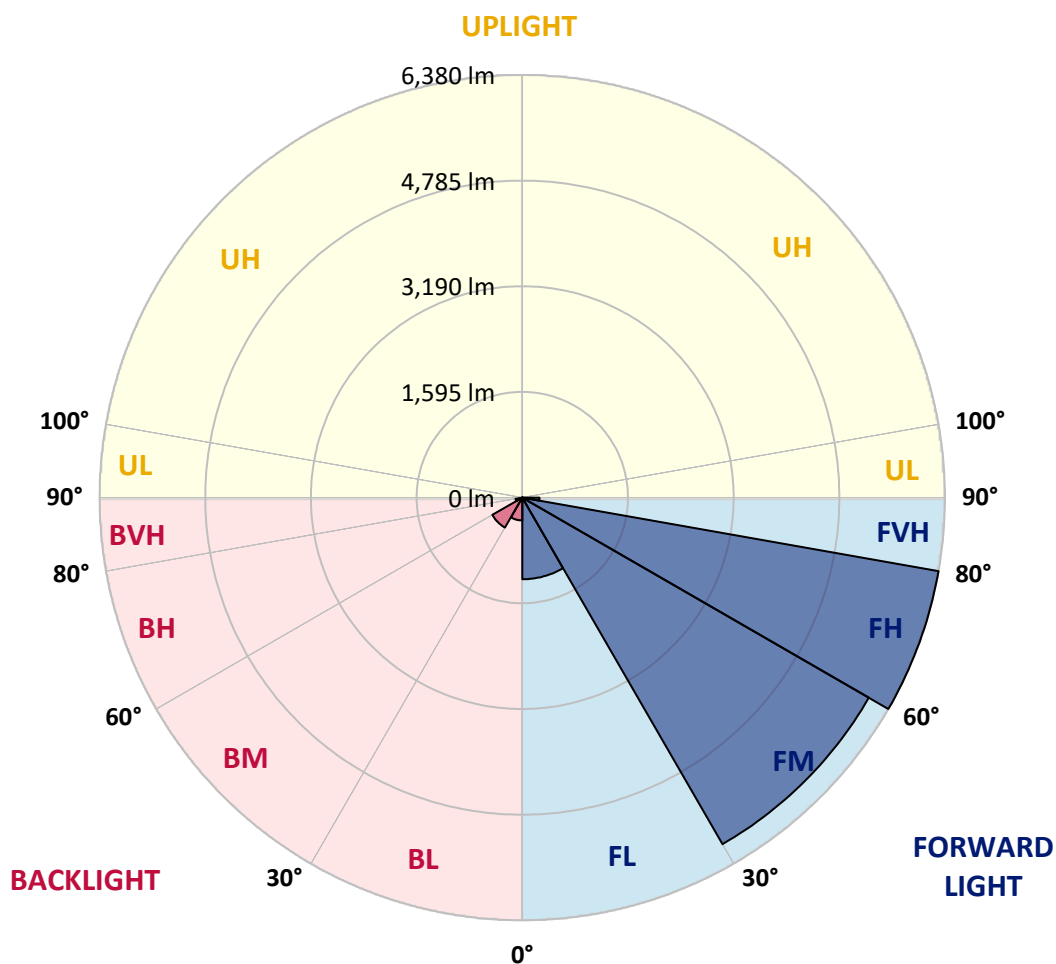
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1231.3	8.3			
FM (30°-60°)	6040.2	40.6			
FH (60°-80°)	6380.5	42.9			G3/7500
FVH (80°-90°)	258.7	1.7			G3/500
BL (0°-30°)	343.6	2.3	B1/500		
BM (30°-60°)	522.2	3.5	B1/1000		
BH (60°-80°)	102.6	0.7	B0/110		G0/110
BVH (80°-90°)	1.9	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9
2.5°	2682.9	2673.9	2661.9	2647.9	2607.9	2600.9	2576.9	2525.9	2464.9	2414.9	2345.9
5°	2809.9	2814.9	2805.9	2780.9	2751.9	2734.9	2704.9	2625.9	2546.9	2445.9	2332.9
7.5°	2838.9	2848.9	2837.9	2813.9	2785.9	2767.9	2743.9	2675.9	2583.9	2468.9	2313.9
10°	2835.9	2847.9	2840.9	2818.9	2795.9	2778.9	2752.9	2698.9	2624.9	2503.9	2319.9
12.5°	2830.9	2846.9	2845.9	2834.9	2815.9	2802.9	2786.9	2738.9	2669.9	2554.9	2352.9
15°	2816.9	2836.9	2854.9	2863.9	2864.9	2864.9	2844.9	2793.9	2727.9	2621.9	2395.9
17.5°	2822.9	2845.9	2890.9	2916.9	2934.9	2932.9	2911.9	2856.9	2783.9	2690.9	2440.9
20°	2859.9	2890.9	2953.9	3005.9	3023.9	3017.9	2989.9	2925.9	2842.9	2749.9	2484.9
22.5°	2950.9	2978.9	3057.9	3118.9	3131.9	3115.9	3075.9	2988.9	2913.9	2813.9	2537.9
25°	3086.9	3119.9	3192.9	3238.9	3238.9	3229.9	3173.9	3071.9	2993.9	2902.9	2606.9
27.5°	3251.9	3279.9	3351.9	3392.9	3368.9	3342.9	3286.9	3163.9	3088.9	3014.9	2689.9
30°	3418.9	3436.9	3512.9	3530.9	3505.9	3472.9	3412.9	3289.9	3223.9	3166.9	2809.9
32.5°	3576.9	3615.9	3678.9	3674.9	3640.9	3624.9	3569.9	3438.9	3401.9	3395.9	2977.9
35°	3734.9	3764.9	3820.9	3834.9	3804.9	3801.9	3761.9	3664.9	3665.9	3704.9	3239.9
37.5°	3870.9	3897.9	3963.9	3994.9	4000.9	4015.9	3999.9	3935.9	4026.9	4133.9	3586.9
40°	3984.9	4022.9	4106.9	4160.9	4222.9	4277.9	4280.9	4294.9	4477.9	4661.9	4039.9
42.5°	4073.9	4126.9	4248.9	4348.9	4490.9	4560.9	4616.9	4693.9	5001.9	5276.9	4573.9
45°	4189.9	4250.9	4402.9	4559.9	4781.9	4896.9	4974.9	5180.9	5617.9	5992.9	5121.9
47.5°	4381.9	4413.9	4568.9	4797.9	5089.9	5253.9	5405.9	5717.9	6278.9	6614.8	5577.9
50°	4628.9	4649.9	4766.9	5084.9	5462.9	5678.9	5955.9	6322.9	6964.8	7130.8	5835.9
52.5°	4901.9	4908.9	4996.9	5400.9	5880.9	6152.9	6462.9	6915.8	7523.8	7498.8	6006.9
55°	5218.9	5208.9	5283.9	5743.9	6375.9	6686.8	7047.8	7522.8	8008.8	7759.8	6104.9
57.5°	5581.9	5554.9	5627.9	6198.9	7009.8	7381.8	7748.8	8046.8	8384.8	7978.8	6151.9
60°	5961.9	5907.9	5994.9	6709.8	7756.8	8109.8	8414.8	8494.8	8780.8	8152.8	6070.9
62.5°	6264.9	6265.9	6427.9	7253.8	8524.8	8833.8	8995.8	9067.8	9121.8	8114.8	5644.9
65°	6737.8	6753.8	7012.8	8008.8	9413.8	9681.8	9792.8	9558.8	9136.8	7642.8	5004.9
67.5°	7225.8	7276.8	7750.8	9048.8	10440.8	10656.8	10513.8	9653.8	8728.8	6565.8	3794.9
70°	7384.8	7468.8	8249.8	9764.8	11056.7	11168.7	10684.8	9210.8	7296.8	4389.9	1910.0
72.5°	6766.8	6902.8	7962.8	9503.8	10663.8	10566.8	9559.8	7724.8	4638.9	1667.0	583.0
75°	4771.9	4831.9	6617.8	7883.8	8576.8	8301.8	7271.8	4979.9	1908.0	468.0	200.0
77.5°	2463.9	2434.9	3935.9	5230.9	6116.9	5831.9	4761.9	2577.9	723.0	195.0	124.0
80°	1274.0	1295.0	1703.0	2740.9	3733.9	3435.9	2538.9	1195.0	385.0	108.0	95.0
82.5°	714.0	670.0	979.0	1197.0	1746.0	1369.0	974.0	846.0	168.0	65.0	90.0
85°	130.0	136.0	537.0	647.0	606.0	385.0	314.0	565.0	49.0	36.0	63.0
87.5°	2.0	2.0	104.0	186.0	118.0	54.0	99.0	81.0	10.0	14.0	11.0
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°	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9
2.5°	2310.9	2272.9	2201.9	2132.0	2043.0	1970.0	1921.0	1870.0	1818.0	1822.0	1834.0
5°	2270.9	2204.9	2065.0	1917.0	1775.0	1647.0	1521.0	1408.0	1362.0	1320.0	1322.0
7.5°	2230.9	2138.0	1933.0	1701.0	1486.0	1268.0	1110.0	980.0	911.0	859.0	844.0
10°	2212.9	2090.0	1812.0	1493.0	1188.0	950.0	747.0	641.0	559.0	533.0	540.0
12.5°	2220.9	2066.0	1703.0	1305.0	942.0	662.0	520.0	466.0	448.0	445.0	443.0
15°	2235.9	2049.0	1596.0	1097.0	692.0	492.0	437.0	427.0	425.0	423.0	424.0
17.5°	2255.9	2034.0	1482.0	902.0	531.0	430.0	414.0	409.0	408.0	408.0	408.0
20°	2275.9	2017.0	1355.0	728.0	443.0	406.0	396.0	393.0	392.0	392.0	391.0
22.5°	2298.9	2002.0	1226.0	572.0	408.0	389.0	380.0	378.0	377.0	376.0	376.0
25°	2331.9	1983.0	1089.0	468.0	386.0	373.0	364.0	362.0	361.0	357.0	358.0
27.5°	2375.9	1969.0	948.0	404.0	366.0	353.0	347.0	344.0	342.0	339.0	340.0
30°	2435.9	1957.0	798.0	369.0	343.0	332.0	326.0	324.0	322.0	319.0	319.0
32.5°	2539.9	1962.0	640.0	341.0	322.0	309.0	303.0	301.0	299.0	296.0	296.0
35°	2695.9	1991.0	512.0	317.0	297.0	284.0	278.0	278.0	275.0	271.0	270.0
37.5°	2950.9	2065.0	411.0	294.0	273.0	261.0	254.0	252.0	249.0	243.0	242.0
40°	3251.9	2179.9	346.0	271.0	251.0	239.0	233.0	227.0	219.0	213.0	212.0
42.5°	3629.9	2297.9	300.0	248.0	230.0	219.0	212.0	202.0	190.0	182.0	181.0
45°	4023.9	2405.9	269.0	227.0	210.0	201.0	193.0	177.0	162.0	152.0	151.0
47.5°	4317.9	2425.9	244.0	207.0	193.0	184.0	173.0	153.0	133.0	124.0	121.0
50°	4456.9	2328.9	218.0	187.0	176.0	166.0	152.0	129.0	107.0	96.0	94.0
52.5°	4505.9	2161.0	197.0	169.0	159.0	147.0	130.0	104.0	84.0	73.0	72.0
55°	4485.9	1949.0	178.0	152.0	139.0	125.0	108.0	83.0	62.0	53.0	51.0
57.5°	4380.9	1679.0	159.0	135.0	119.0	105.0	86.0	62.0	42.0	34.0	33.0
60°	4097.9	1311.0	140.0	116.0	101.0	86.0	68.0	44.0	26.0	19.0	19.0
62.5°	3619.9	973.0	122.0	97.0	85.0	69.0	48.0	28.0	14.0	10.0	9.0
65°	3024.9	718.0	102.0	82.0	71.0	54.0	34.0	17.0	7.0	3.0	2.0
67.5°	2111.0	443.0	85.0	67.0	58.0	39.0	21.0	7.0	3.0	0.0	0.0
70°	959.0	211.0	65.0	51.0	44.0	28.0	11.0	4.0	2.0	0.0	0.0
72.5°	298.0	111.0	46.0	37.0	30.0	18.0	6.0	3.0	2.0	0.0	0.0
75°	138.0	71.0	29.0	20.0	17.0	9.0	4.0	2.0	1.0	0.0	0.0
77.5°	103.0	55.0	17.0	11.0	9.0	6.0	3.0	2.0	1.0	0.0	0.0
80°	90.0	28.0	10.0	7.0	5.0	4.0	2.0	1.0	0.0	0.0	0.0
82.5°	81.0	14.0	6.0	4.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0
85°	44.0	8.0	4.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
87.5°	8.0	4.0	3.0	2.0	2.0	1.0	1.0	1.0	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)