

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: P651229

Luminaire Tested: **GALN-SA2D-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7636.3 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

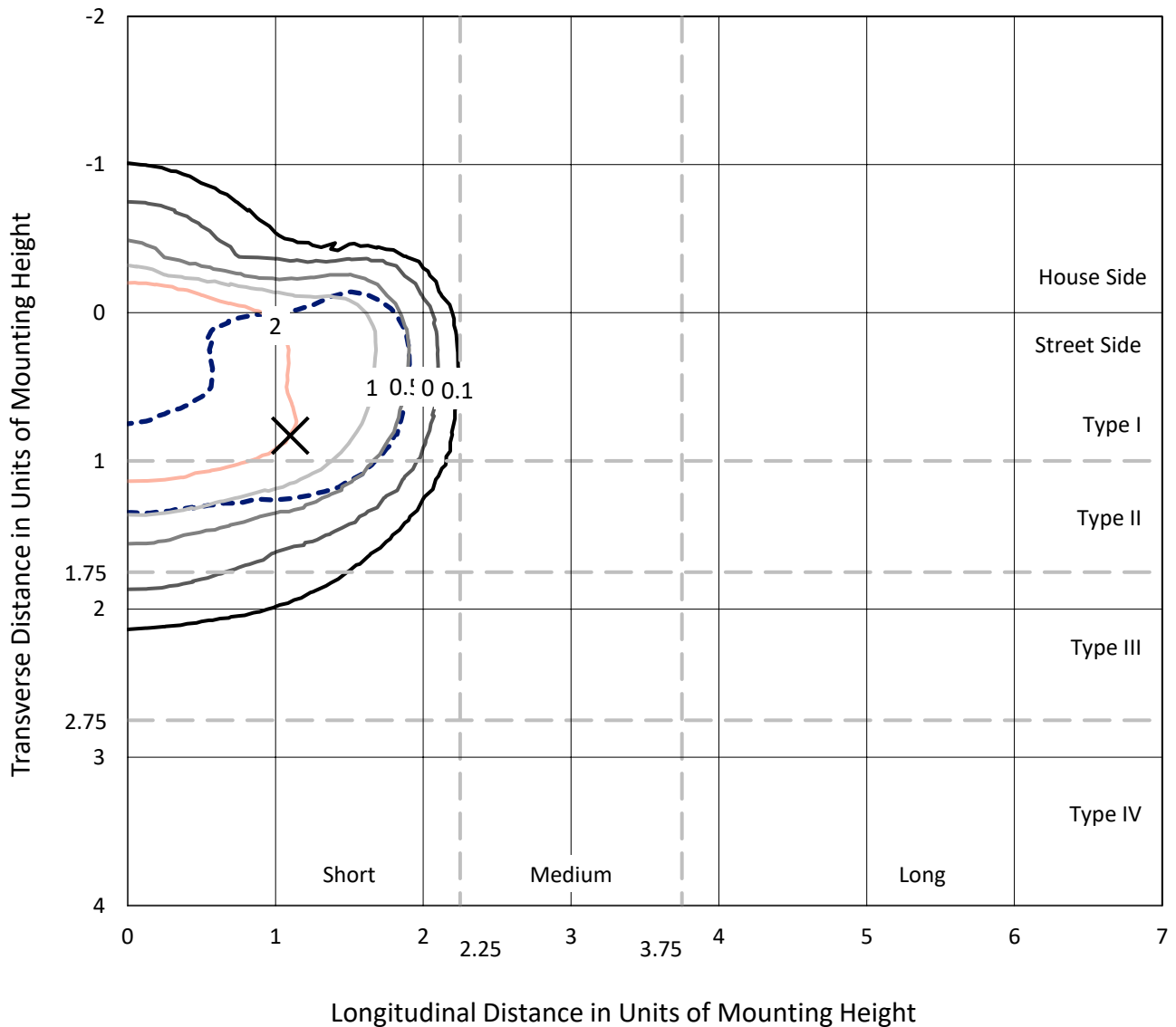
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

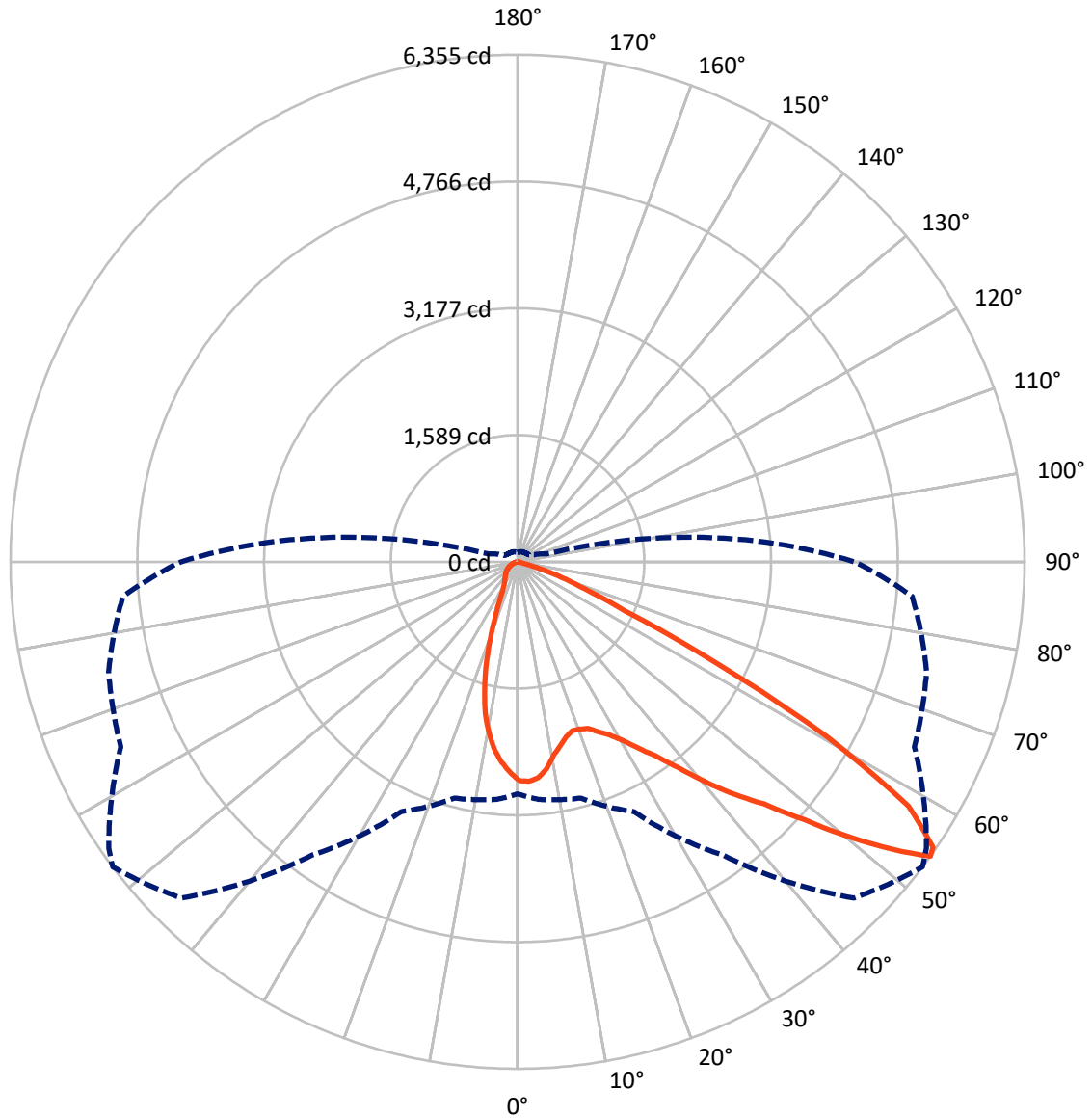
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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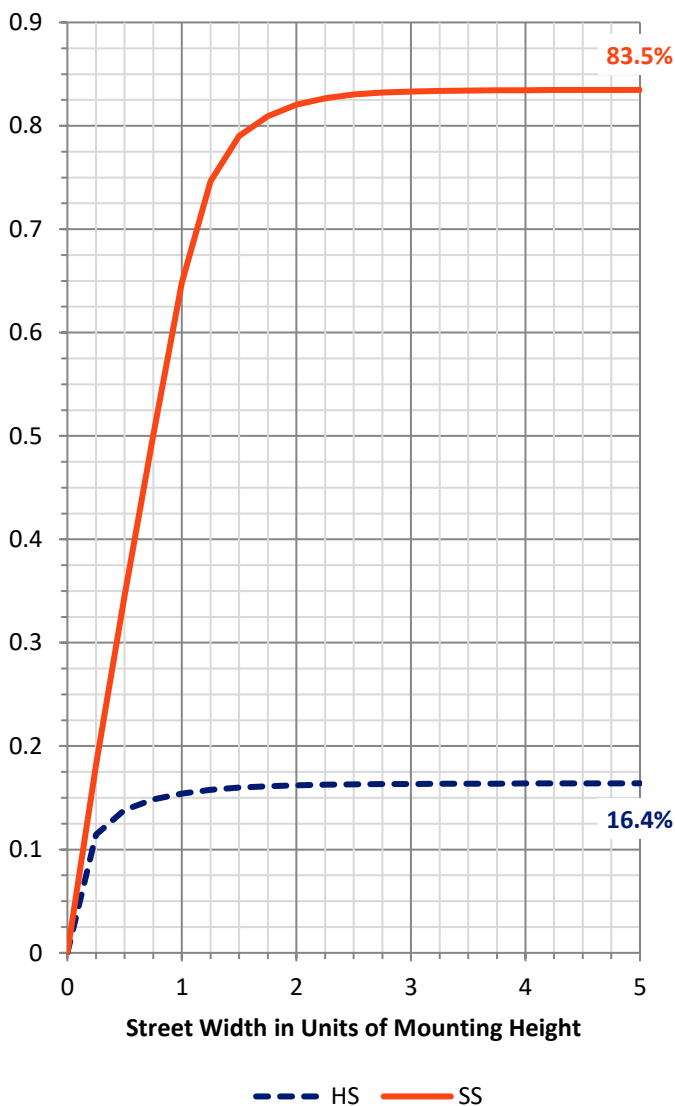
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1263.4	0.0	1263.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6372.8	0.0	6372.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	7636.3	0.0	7636.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.3	3.1
10°-20°	539.5	7.1
20°-30°	766.8	10.0
30°-40°	1183.4	15.5
40°-50°	1855.4	24.3
50°-60°	2155.3	28.2
60°-70°	814.4	10.7
70°-80°	77.4	1.0
80°-90°	8.7	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°	7636.3	100.0
0°-180°	7636.3	100.0

Coefficient of Utilization

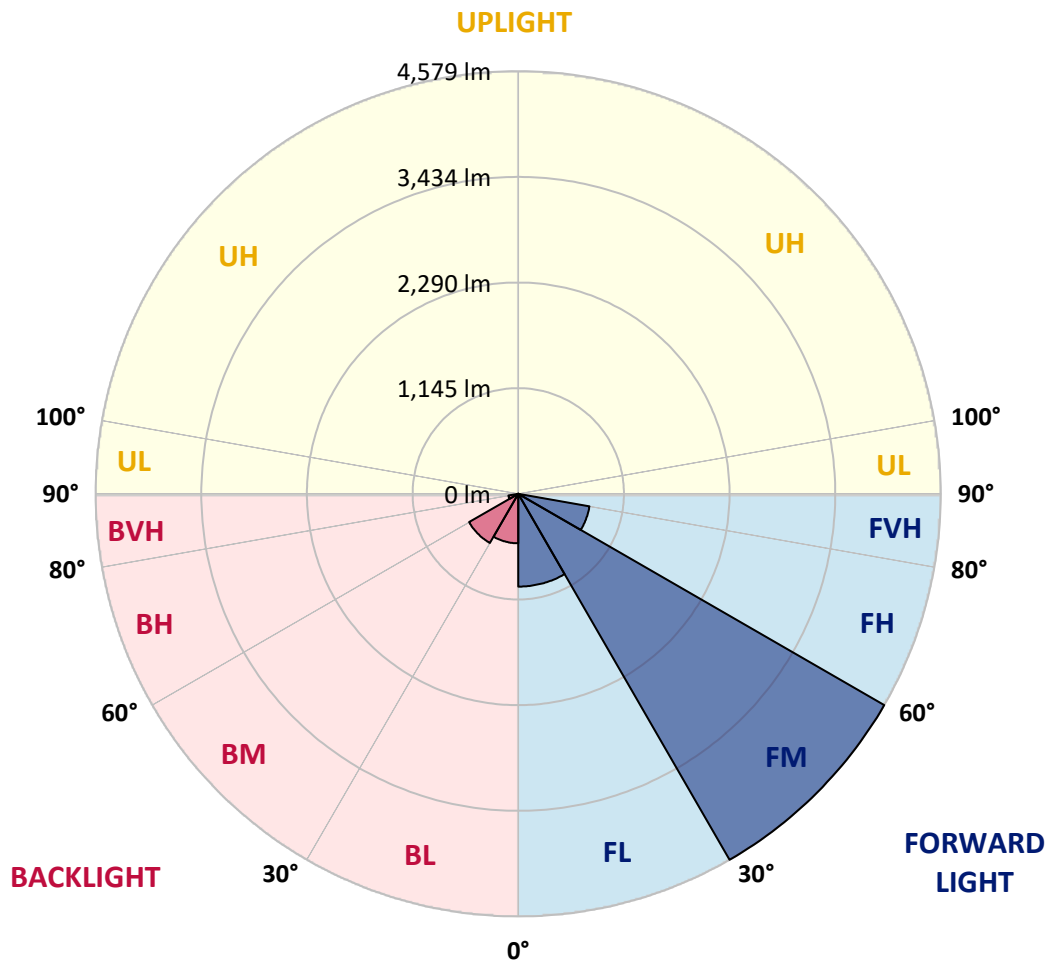


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1005.5	13.2			
FM (30°-60°)	4579.2	60.0			
FH (60°-80°)	783.6	10.3			G1/1800
FVH (80°-90°)	4.5	0.1			G0/10
BL (0°-30°)	536.2	7.0	B2/1000		
BM (30°-60°)	614.8	8.1	B1/1000		
BH (60°-80°)	108.2	1.4	B0/110		G0/110
BVH (80°-90°)	4.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8
2.5°	2728.6	2704.4	2728.6	2731.5	2748.5	2764.2	2754.2	2777.0	2764.2	2749.9	2745.7
5°	2508.1	2540.8	2542.3	2593.5	2582.0	2676.0	2717.2	2705.8	2775.6	2771.3	2761.3
7.5°	2310.3	2297.5	2314.6	2374.4	2449.7	2557.9	2617.6	2616.2	2715.8	2786.9	2779.8
10°	2126.8	2125.4	2160.9	2207.9	2272.0	2385.7	2468.3	2509.5	2664.5	2772.7	2788.3
12.5°	2003.1	1997.4	2035.8	2074.2	2175.2	2263.4	2368.7	2388.6	2566.4	2722.9	2748.5
15°	1921.9	1934.8	1937.6	2011.6	2075.6	2192.2	2274.8	2316.0	2520.9	2683.0	2781.3
17.5°	1907.7	1924.8	1926.2	1987.4	2055.7	2153.9	2226.4	2281.9	2482.5	2703.0	2782.6
20°	1936.2	1926.2	1934.8	1973.2	2040.0	2134.0	2239.2	2257.7	2469.7	2713.0	2798.3
22.5°	2017.3	2014.4	1993.1	2024.4	2071.4	2169.5	2269.1	2297.5	2506.7	2764.2	2811.1
25°	2106.9	2122.6	2102.7	2098.4	2131.1	2227.8	2360.1	2397.1	2630.4	2856.6	2850.9
27.5°	2274.8	2259.1	2259.1	2239.2	2230.7	2277.6	2458.3	2519.5	2768.4	2976.1	2896.5
30°	2435.5	2452.6	2439.8	2446.9	2390.0	2385.7	2597.7	2673.1	3013.1	3158.2	2993.2
32.5°	2690.2	2667.4	2688.8	2670.3	2594.9	2518.0	2786.9	2865.2	3309.0	3367.4	3138.3
35°	2902.1	2892.2	2983.3	2980.4	2858.1	2782.6	2987.5	3104.1	3515.3	3617.7	3309.0
37.5°	3203.8	3185.3	3289.2	3338.9	3229.4	3117.0	3274.9	3410.0	3707.4	3818.3	3484.0
40°	3513.9	3560.8	3700.2	3782.7	3666.1	3516.7	3626.3	3667.5	3835.4	3949.3	3603.5
42.5°	3906.5	3974.8	4117.1	4188.2	4178.3	4016.1	3983.3	3982.0	3927.9	3912.2	3691.7
45°	4283.5	4257.9	4477.0	4632.1	4757.3	4710.4	4327.6	4285.0	4074.4	3967.7	3714.4
47.5°	4448.6	4440.0	4589.4	4865.4	5292.2	5350.5	4828.4	4663.3	4321.9	4201.0	3838.2
50°	4235.2	4279.3	4427.2	4733.1	5387.4	5832.8	5443.0	5221.0	4610.7	4485.6	4131.3
52.5°	3538.1	3567.9	3708.8	4097.2	5063.2	6117.3	6031.9	5903.9	5141.4	4933.6	4642.1
54°	2909.3	2988.9	3065.8	3455.6	4485.6	5959.4	6354.8	6256.7	5487.1	5306.4	4963.6
55°	2533.7	2580.6	2636.1	3024.5	4085.7	5691.9	6317.8	6326.4	5719.0	5423.0	5179.8
57.5°	1850.9	1883.6	1826.7	1998.8	2805.4	4622.1	5778.7	6009.2	6031.9	5598.0	5312.1
60°	1414.1	1428.4	1364.3	1391.4	1744.1	3172.4	4469.9	4747.3	5441.5	4892.4	4499.8
62.5°	1096.8	1099.7	1098.3	1145.2	1202.1	1866.5	2795.5	3041.6	3751.4	3474.1	3055.8
65°	808.0	795.2	818.0	960.3	1025.7	1173.7	1472.4	1651.6	2038.6	1721.4	1230.6
67.5°	523.5	527.8	550.5	714.2	879.2	900.5	906.2	892.0	893.4	492.2	308.7
70°	314.4	321.5	314.4	404.0	628.8	645.9	590.4	576.2	449.5	116.6	115.2
72.5°	186.4	176.4	157.9	173.6	261.8	312.9	281.7	280.2	176.4	68.3	68.3
75°	78.2	71.1	58.4	52.6	69.7	66.9	66.9	59.7	46.9	45.5	42.6
77.5°	15.6	15.6	11.4	12.8	17.1	19.9	24.2	24.2	28.4	28.4	27.0
80°	0.0	1.4	4.3	8.5	12.8	18.5	21.4	21.4	24.2	24.2	19.9
82.5°	0.0	1.4	4.3	8.5	11.4	17.1	21.4	21.4	24.2	25.6	21.4
85°	0.0	1.4	4.3	7.1	11.4	14.2	14.2	12.8	9.9	8.5	5.7
87.5°	0.0	0.0	1.4	2.9	1.4	2.9	2.9	2.9	2.9	2.9	2.9
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°	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8
2.5°	2755.6	2754.2	2720.0	2664.5	2651.8	2604.8	2599.1	2570.7	2586.3	2533.7	2528.0
5°	2732.8	2715.8	2674.5	2639.0	2535.1	2461.1	2402.8	2331.7	2290.5	2297.5	2270.5
7.5°	2765.5	2721.5	2648.9	2525.2	2398.5	2269.1	2199.4	2054.3	2001.7	1923.4	1912.0
10°	2731.5	2698.7	2586.3	2381.5	2206.5	2020.2	1856.5	1695.8	1573.4	1520.8	1509.4
12.5°	2728.6	2671.7	2483.9	2256.3	2003.1	1735.6	1498.0	1297.4	1176.5	1108.2	1092.5
15°	2684.5	2616.2	2368.7	2062.8	1712.9	1379.9	1121.1	927.5	835.1	795.2	806.6
17.5°	2688.8	2586.3	2253.5	1857.9	1426.9	1012.9	765.4	665.8	641.6	651.5	651.5
20°	2684.5	2519.5	2114.0	1621.8	1092.5	702.7	562.0	526.4	542.0	573.3	566.2
22.5°	2661.8	2488.2	1986.0	1372.8	803.7	520.7	450.9	452.4	476.6	515.0	523.5
25°	2678.8	2418.5	1823.8	1121.1	586.1	415.4	391.2	401.2	426.8	455.2	461.0
27.5°	2666.0	2368.7	1654.5	870.7	428.2	357.1	355.7	367.0	378.4	399.7	399.7
30°	2680.3	2323.2	1488.1	647.3	352.8	327.2	321.5	330.0	341.4	345.7	344.3
32.5°	2732.8	2289.0	1296.0	483.7	311.6	298.7	298.7	298.7	297.3	303.0	304.4
35°	2848.1	2294.7	1126.7	374.2	284.5	274.6	270.3	264.6	261.8	264.6	266.0
37.5°	2973.3	2291.8	951.8	318.7	264.6	256.1	246.1	237.6	236.2	239.0	234.7
40°	3028.8	2318.9	789.5	285.9	246.1	236.2	220.5	213.4	214.8	217.7	214.8
42.5°	3104.1	2327.4	684.3	260.4	229.0	213.4	203.4	194.9	193.5	197.7	196.3
45°	3102.8	2279.0	573.3	246.1	213.4	196.3	183.5	176.4	176.4	179.2	180.6
47.5°	3193.8	2272.0	492.2	233.3	202.0	184.9	169.3	163.6	162.1	162.1	159.4
50°	3405.8	2371.5	429.7	219.1	187.8	172.2	159.4	152.2	146.5	143.7	142.3
52.5°	3819.7	2681.6	381.2	202.0	172.2	159.4	147.9	142.3	135.1	128.0	126.7
54°	4220.9	3001.8	378.4	187.8	159.4	150.8	140.9	138.0	129.4	119.5	116.6
55°	4401.6	3188.1	388.4	176.4	150.8	145.1	136.6	133.7	125.2	113.8	112.4
57.5°	4551.0	3260.6	382.7	146.5	136.6	135.1	128.0	123.8	113.8	98.1	95.3
60°	3663.2	2465.4	274.6	129.4	125.2	122.4	116.6	113.8	101.0	83.9	82.5
62.5°	2314.6	1418.3	175.0	113.8	109.6	105.3	98.1	95.3	83.9	66.9	62.6
65°	985.9	587.5	118.1	101.0	93.9	86.8	81.1	76.8	66.9	49.8	48.4
67.5°	256.1	209.2	98.1	88.2	78.2	68.3	64.0	56.9	45.5	34.1	32.7
70°	115.2	105.3	82.5	74.0	62.6	52.6	46.9	39.9	29.9	22.8	21.4
72.5°	68.3	66.9	62.6	55.5	46.9	39.9	34.1	27.0	19.9	12.8	12.8
75°	42.6	41.3	42.6	38.4	32.7	29.9	25.6	18.5	11.4	5.7	5.7
77.5°	25.6	25.6	25.6	24.2	22.8	22.8	18.5	11.4	5.7	1.4	1.4
80°	19.9	19.9	21.4	19.9	19.9	19.9	15.6	8.5	2.9	0.0	0.0
82.5°	19.9	21.4	24.2	22.8	19.9	17.1	14.2	8.5	2.9	0.0	0.0
85°	5.7	4.3	7.1	9.9	14.2	12.8	9.9	7.1	2.9	0.0	0.0
87.5°	2.9	2.9	2.9	2.9	1.4	1.4	1.4	1.4	1.4	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)