

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: P652474

Luminaire Tested: **GALN-SA6B-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20433.8 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

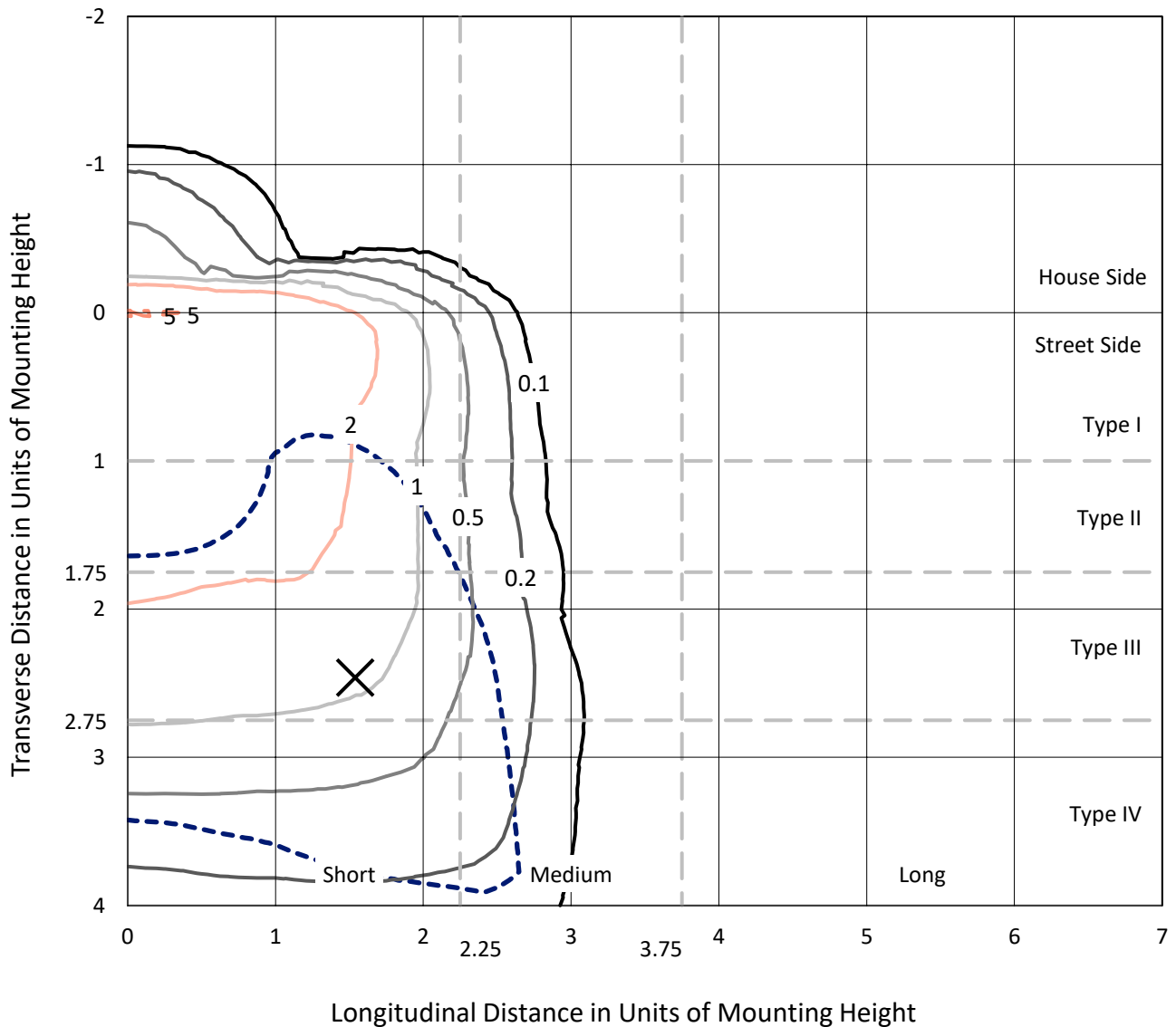
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

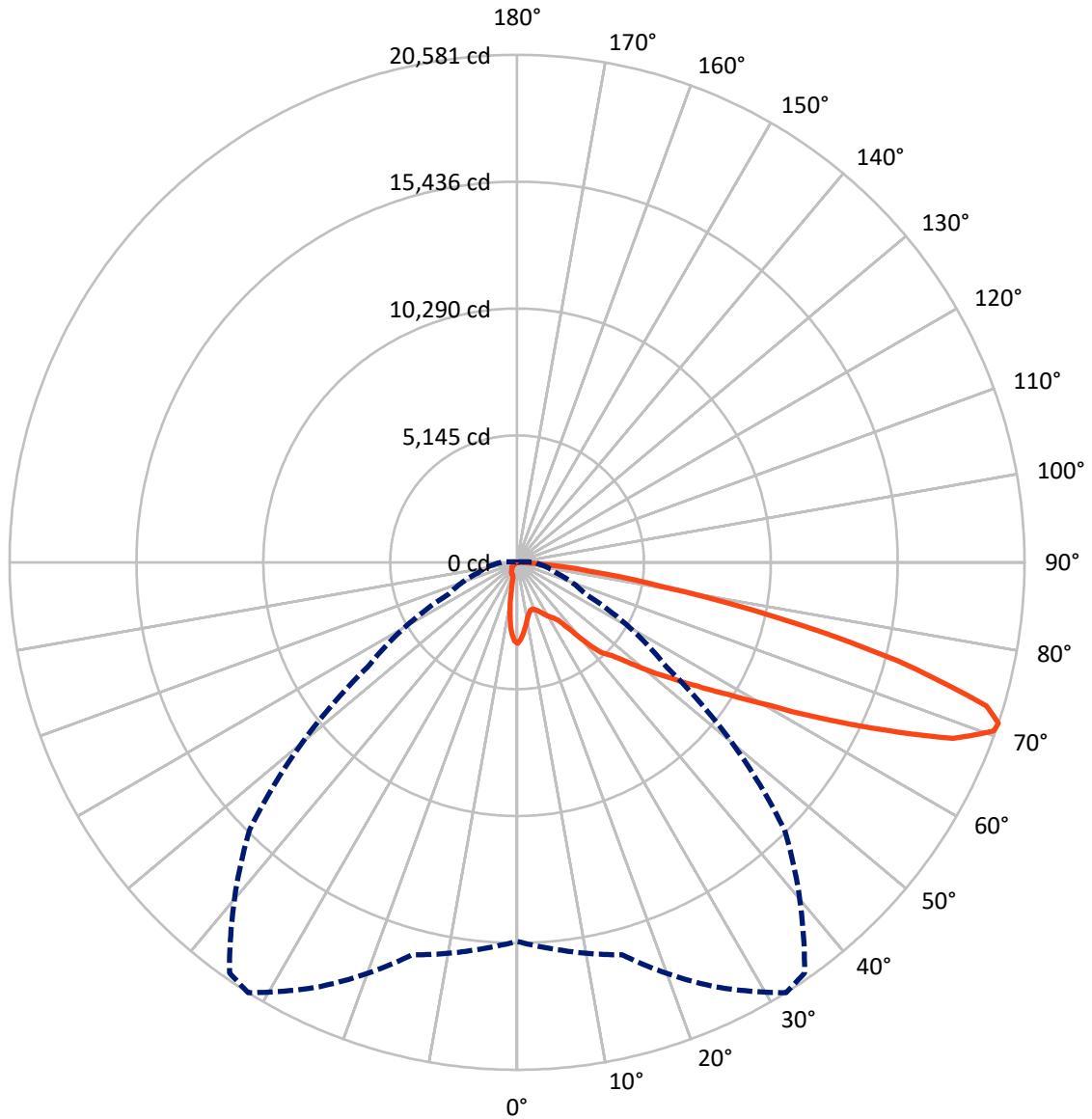
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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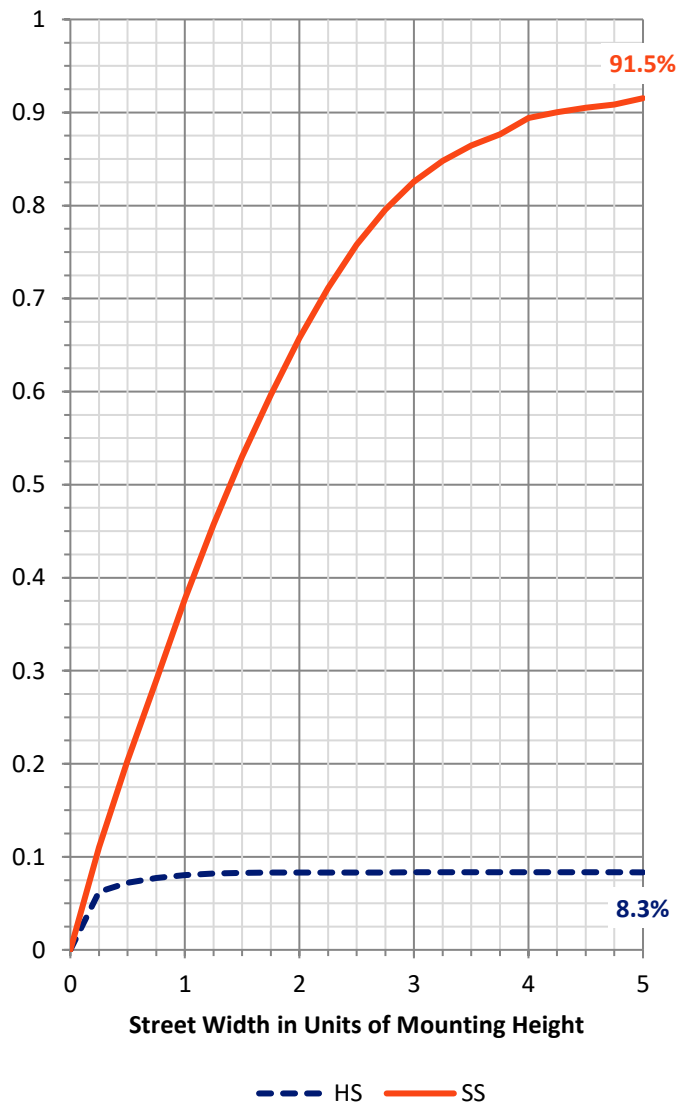
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1711.6	0.0	1711.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	18722.2	0.0	18722.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	20433.8	0.0	20433.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.2	1.3
10°-20°	579.9	2.8
20°-30°	902.2	4.4
30°-40°	1503.0	7.4
40°-50°	2795.8	13.7
50°-60°	4488.8	22.0
60°-70°	6037.7	29.5
70°-80°	3582.2	17.5
80°-90°	276.9	1.4
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°	20433.8	100.0
0°-180°	20433.8	100.0

Coefficient of Utilization

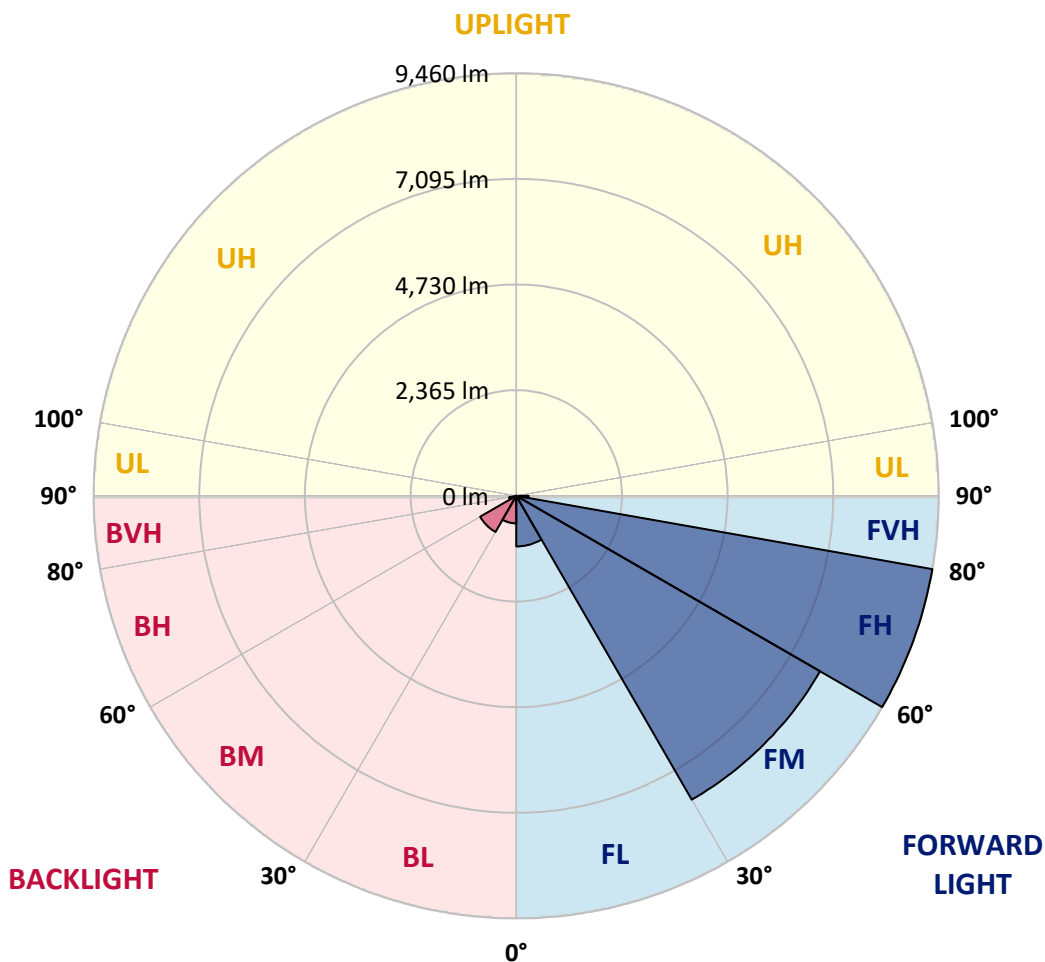


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1132.6	5.5			
FM (30°-60°)	7854.0	38.4			
FH (60°-80°)	9459.8	46.3			G4/12000
FVH (80°-90°)	275.8	1.3			G3/500
BL (0°-30°)	616.7	3.0	B2/1000		
BM (30°-60°)	933.7	4.6	B1/1000		
BH (60°-80°)	160.1	0.8	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
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°	32°	35°	45°	55°	65°	75°	85°
0°	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0
2.5°	3047.6	3079.0	3074.4	3085.3	3112.0	3123.0	3152.7	3185.7	3231.2	3262.6	3282.9
5°	2729.2	2752.8	2755.9	2810.8	2837.4	2867.3	2955.1	3050.8	3157.5	3242.1	3298.7
7.5°	2388.9	2401.4	2426.5	2498.7	2566.1	2595.9	2729.2	2895.5	3063.3	3221.8	3323.7
10°	2108.1	2122.2	2167.7	2244.5	2307.3	2346.6	2531.6	2740.2	2975.5	3210.8	3359.8
12.5°	1948.1	1956.0	1973.2	2042.2	2122.2	2164.6	2363.8	2602.2	2904.9	3215.5	3420.9
15°	1937.2	1934.0	1913.6	1941.9	2014.0	2057.9	2252.5	2508.1	2842.2	3231.2	3493.1
17.5°	1995.2	1987.4	1938.7	1938.7	1998.3	2034.4	2205.4	2457.9	2810.8	3267.3	3595.1
20°	2084.6	2072.1	1992.0	1985.8	2043.8	2081.5	2233.6	2461.0	2817.1	3334.7	3731.5
22.5°	2197.5	2183.4	2062.6	2065.7	2128.5	2166.2	2315.2	2517.4	2856.3	3417.8	3877.4
25°	2345.0	2329.2	2186.5	2180.3	2246.1	2279.1	2436.0	2617.9	2911.2	3521.4	4068.8
27.5°	2541.0	2508.1	2337.1	2327.7	2398.3	2440.7	2581.8	2752.8	3008.4	3664.1	4326.0
30°	2702.6	2666.5	2503.4	2478.3	2553.5	2586.5	2732.4	2934.8	3199.8	3913.5	4682.1
32.5°	2914.3	2861.0	2669.7	2603.7	2683.7	2726.1	2950.4	3273.5	3483.7	4177.0	5105.5
35°	3391.2	3358.2	3124.5	2894.0	2889.3	2942.6	3272.0	3615.5	3775.4	4588.0	5682.8
37.5°	4073.5	4049.9	3802.1	3493.1	3403.7	3378.6	3662.6	3991.9	4241.3	5152.6	6354.1
40°	4865.6	4810.7	4583.3	4321.3	4205.3	4131.5	4123.7	4551.9	4849.9	5919.6	7053.7
42.5°	5433.4	5333.0	5056.9	5038.1	5013.0	4936.2	4713.5	5370.6	5635.7	6744.7	7801.9
45°	6029.5	5877.2	5466.3	5395.8	5386.4	5381.6	5604.3	6340.0	6492.2	7638.7	8570.5
47.5°	6492.2	6371.3	6034.2	6002.8	6042.0	6148.6	6782.3	7368.9	7337.6	8435.6	9215.1
50°	7108.6	7017.6	6642.7	6702.3	6904.7	7078.8	8110.9	8490.5	8032.5	9063.0	9684.1
52.5°	7836.4	7668.6	7320.3	7481.9	7792.5	8082.6	9521.0	9472.4	8520.3	9535.1	10033.9
55°	8466.9	8347.7	8228.5	8396.4	8860.6	9223.0	10794.7	10208.0	8874.7	9914.7	10187.6
57.5°	9533.5	9505.3	9383.0	9553.9	10117.0	10493.5	11935.0	10778.9	9102.1	10112.4	10007.2
60°	11111.5	11066.0	10838.6	11056.5	11790.7	12382.0	12985.9	11291.9	9153.9	10035.5	9488.1
62.5°	13009.4	12854.1	12659.6	12981.2	13988.2	14248.6	13975.6	11596.1	8961.0	9423.7	8236.3
65°	14781.8	14621.9	14626.5	15304.2	16400.5	16577.8	15130.0	11550.6	8396.4	7891.3	6074.9
67.5°	16138.6	16112.0	16303.3	17625.6	19059.2	18936.9	16162.2	10869.9	6722.7	5115.0	3228.0
70°	16207.6	16259.4	16808.4	19040.4	20496.0	20301.5	16074.3	8835.5	4191.1	2352.8	1272.1
71°	15373.1	15721.4	16480.6	18996.5	20580.7	20328.1	15334.0	7400.3	3074.4	1640.7	917.6
72.5°	13100.3	13283.8	14924.6	17878.1	19910.9	19371.3	13456.4	5187.1	1968.5	1003.8	527.1
75°	7215.3	7667.0	9994.7	14025.8	15925.3	15451.6	8769.6	2464.1	981.9	549.0	218.0
77.5°	3435.1	3347.3	4876.5	8341.5	10797.8	10772.7	4418.5	1094.8	572.6	371.7	109.8
80°	981.9	1104.2	1866.5	3965.2	5994.9	6060.8	1697.1	528.6	396.9	290.1	56.4
82.5°	296.5	302.8	685.4	1753.7	2981.8	2810.8	636.8	269.8	285.4	230.6	33.0
85°	51.7	64.3	202.3	618.0	1137.2	862.7	160.0	128.6	188.2	152.1	18.8
87.5°	3.1	4.7	67.4	70.6	100.4	58.0	28.3	18.8	40.8	40.8	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°	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0
2.5°	3297.1	3306.5	3300.2	3286.0	3262.6	3234.3	3196.6	3165.3	3138.6	3124.5	3141.8
5°	3317.4	3330.0	3298.7	3228.0	3121.4	3005.3	2873.5	2771.6	2691.6	2666.5	2657.1
7.5°	3348.8	3356.7	3272.0	3115.1	2889.3	2614.8	2374.7	2172.4	2015.5	1968.5	1899.5
10°	3389.6	3384.9	3224.9	2933.2	2536.3	2123.8	1752.1	1476.0	1267.4	1192.1	1185.8
12.5°	3452.3	3427.2	3165.3	2685.3	2116.0	1576.4	1116.8	873.6	741.9	698.0	688.6
15°	3530.8	3471.1	3071.2	2395.2	1620.3	1017.9	688.6	614.9	597.6	594.5	591.3
17.5°	3623.3	3529.2	2947.3	2039.1	1138.7	660.4	575.7	574.1	575.7	572.6	571.0
20°	3748.8	3590.4	2799.9	1617.2	752.9	556.8	549.0	549.0	550.5	549.0	549.0
22.5°	3882.1	3662.6	2617.9	1234.4	567.8	528.6	527.1	530.2	533.3	531.8	531.8
25°	4046.8	3756.7	2377.9	845.5	508.2	505.1	506.6	512.9	519.1	520.7	519.1
27.5°	4285.2	3872.7	2120.7	581.9	465.8	469.0	484.7	500.4	509.8	511.3	511.3
30°	4553.4	4001.3	1785.0	472.1	431.3	431.3	450.2	480.0	500.4	503.5	505.1
32.5°	4898.5	4150.3	1413.2	425.0	398.4	395.3	412.5	448.6	486.3	497.2	497.2
35°	5325.1	4326.0	1050.9	395.3	374.9	367.0	376.4	406.3	454.9	486.3	489.4
37.5°	5825.5	4492.3	768.6	368.6	352.9	342.0	348.2	371.7	411.0	458.0	470.5
40°	6288.2	4639.7	574.1	346.7	330.9	323.1	327.8	338.8	371.7	415.6	423.5
42.5°	6793.3	4754.2	456.4	323.1	309.0	305.9	305.9	310.6	332.5	357.6	359.2
45°	7296.8	4795.0	382.7	294.9	285.4	288.6	287.0	283.9	293.3	290.1	290.1
47.5°	7656.0	4746.4	316.8	268.2	268.2	272.9	265.1	254.1	249.4	230.6	232.1
50°	7902.3	4569.2	260.4	236.8	249.4	255.7	240.0	222.7	205.5	185.1	180.4
52.5°	8004.2	4253.9	213.4	196.0	221.2	229.0	210.2	189.8	163.2	145.9	141.2
55°	7938.4	3864.9	177.3	160.0	186.6	196.0	177.3	153.7	123.9	105.1	101.9
57.5°	7648.1	3400.6	150.5	127.1	149.0	155.2	142.7	117.7	87.8	69.0	69.0
60°	7146.2	2920.6	122.4	100.4	111.3	120.8	108.2	84.7	59.6	42.4	39.2
62.5°	6128.3	2371.6	98.8	78.5	78.5	86.3	75.3	61.1	37.7	22.0	20.4
65°	4424.8	1626.6	78.5	58.0	56.4	56.4	47.1	40.8	22.0	9.4	6.3
67.5°	2404.6	917.6	62.7	43.9	39.2	37.7	29.8	23.5	9.4	1.6	0.0
70°	945.8	352.9	48.6	29.8	25.1	23.5	15.7	11.0	6.3	0.0	0.0
71°	641.5	243.1	42.4	25.1	20.4	17.2	12.5	9.4	4.7	0.0	0.0
72.5°	367.0	150.5	33.0	18.8	15.7	12.5	9.4	6.3	4.7	0.0	0.0
75°	160.0	76.9	20.4	14.1	11.0	7.8	6.3	4.7	1.6	0.0	0.0
77.5°	81.6	42.4	14.1	11.0	6.3	4.7	3.1	1.6	0.0	0.0	0.0
80°	45.5	22.0	9.4	6.3	4.7	3.1	1.6	1.6	0.0	0.0	0.0
82.5°	25.1	12.5	4.7	3.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.7	7.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	3.1	0.0	0.0	0.0	0.0	1.6	1.6	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)