

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: P652028

Luminaire Tested: **GALN-SA7A-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19667.6 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

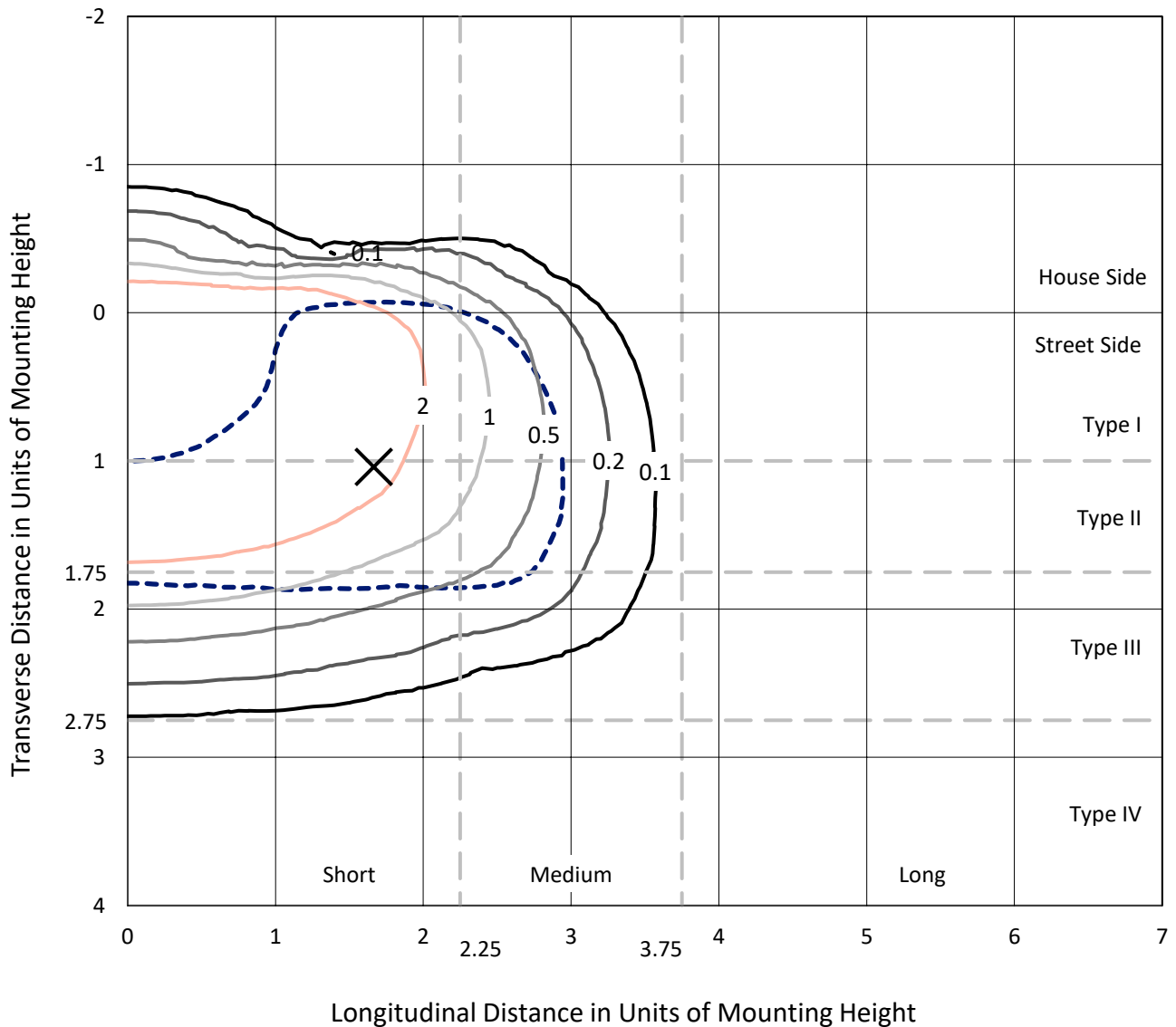
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

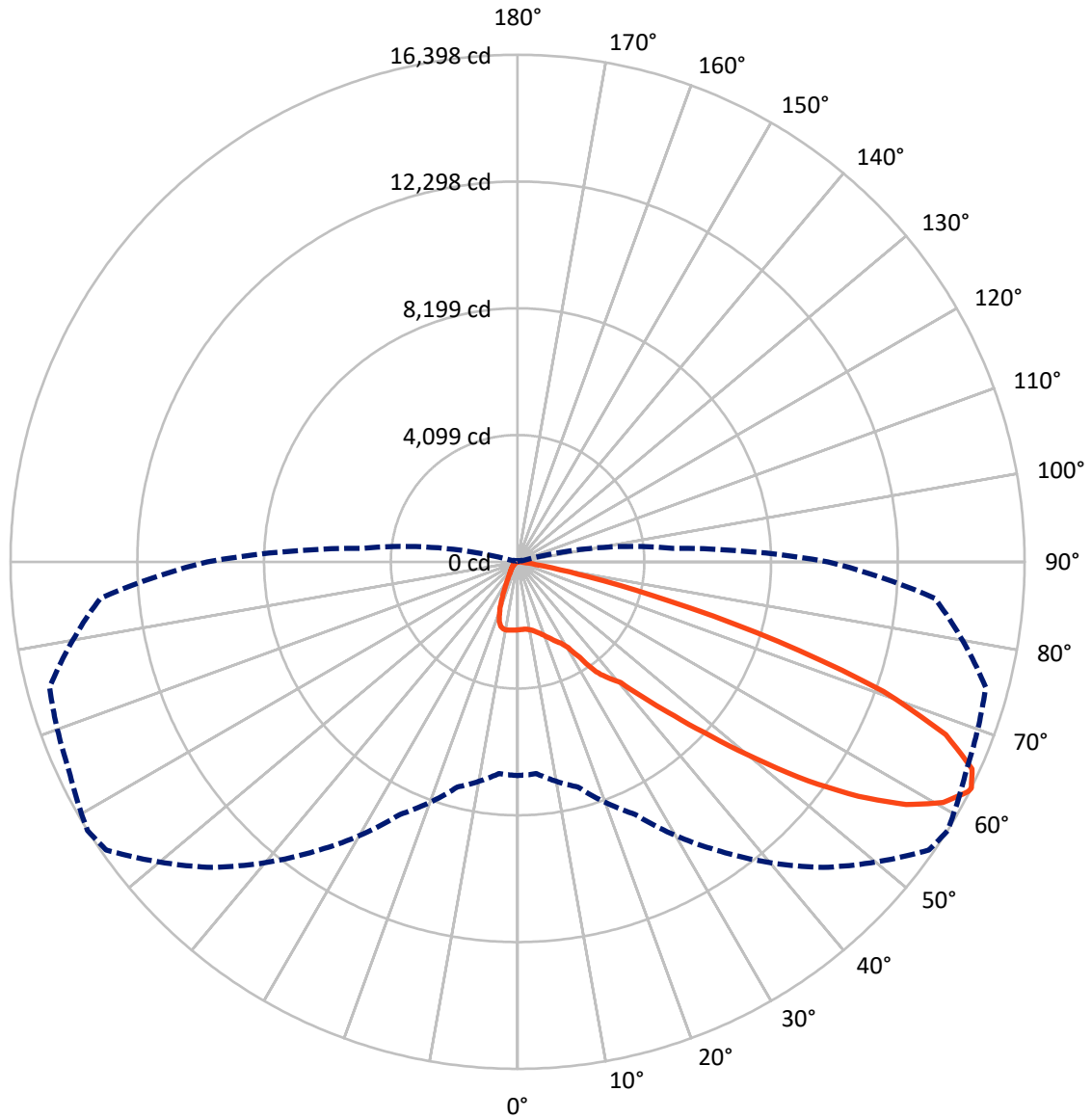
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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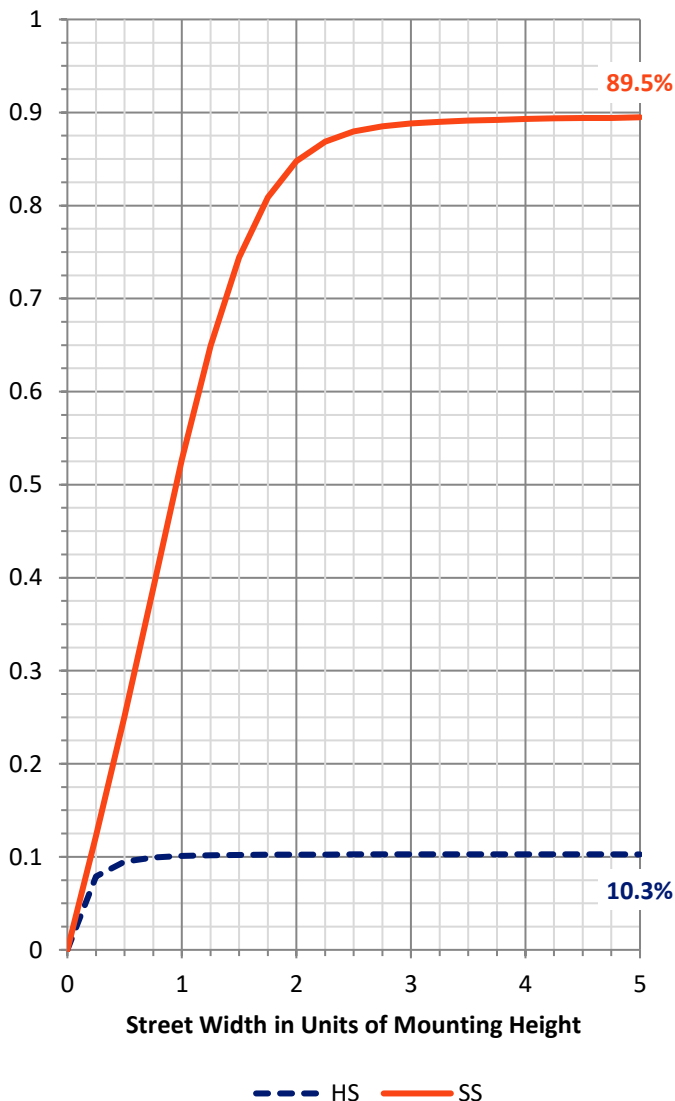
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2036.4	0.0	2036.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	17631.2	0.0	17631.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	19667.6	0.0	19667.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.1	1.0
10°-20°	561.4	2.9
20°-30°	974.4	5.0
30°-40°	1790.5	9.1
40°-50°	3370.5	17.1
50°-60°	5765.1	29.3
60°-70°	5520.0	28.1
70°-80°	1407.6	7.2
80°-90°	72.0	0.4
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°	19667.6	100.0
0°-180°	19667.6	100.0

Coefficient of Utilization



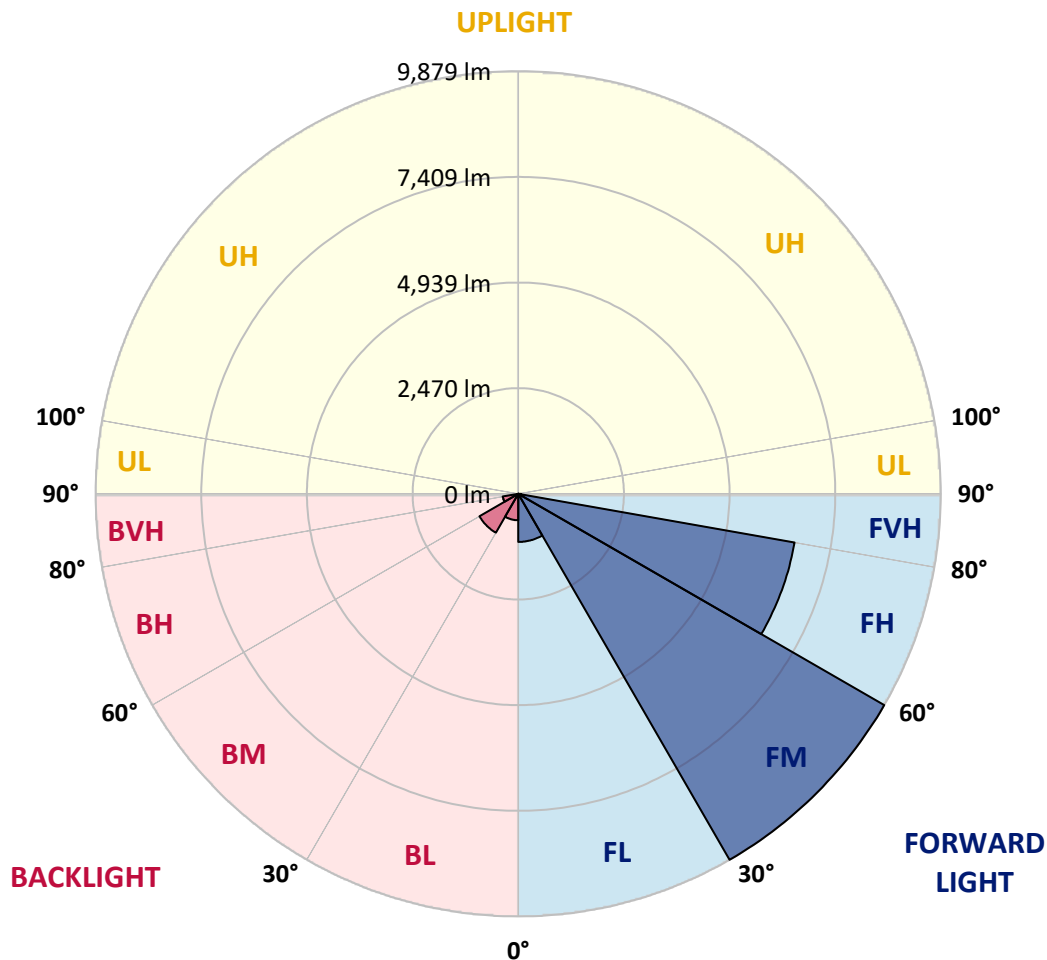
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1124.3	5.7			
FM (30°-60°)	9878.7	50.2			
FH (60°-80°)	6559.0	33.3			G3/7500
FVH (80°-90°)	69.2	0.4			G1/100
BL (0°-30°)	617.6	3.1	B2/1000		
BM (30°-60°)	1047.4	5.3	B2/2500		
BH (60°-80°)	368.6	1.9	B1/500		G1/500
BVH (80°-90°)	2.8	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9
2.5°	2147.1	2154.5	2161.9	2164.8	2175.2	2185.6	2193.0	2191.5	2203.3	2209.3	2209.3
5°	2061.2	2061.2	2080.5	2098.2	2127.8	2157.4	2185.6	2191.5	2213.7	2234.5	2241.9
7.5°	1988.6	1993.1	2007.9	2040.4	2080.5	2132.3	2188.5	2201.9	2240.3	2286.3	2305.5
10°	1954.6	1957.5	1976.8	2010.8	2061.2	2132.3	2210.7	2235.9	2295.2	2367.8	2394.3
12.5°	1947.2	1951.6	1970.9	2009.4	2067.1	2153.0	2259.6	2286.3	2372.1	2465.5	2505.4
15°	1960.5	1963.5	1982.7	2024.2	2087.9	2190.0	2324.8	2361.8	2464.0	2572.0	2623.9
17.5°	2007.9	2004.9	2018.2	2052.3	2123.4	2235.9	2403.2	2447.6	2567.6	2715.7	2749.7
20°	2209.3	2190.0	2178.2	2148.6	2176.7	2301.1	2498.0	2563.2	2711.2	2862.3	2886.0
22.5°	2643.1	2600.2	2515.8	2400.3	2311.4	2390.0	2612.1	2687.6	2878.6	3026.7	3026.7
25°	3195.5	3140.6	3056.3	2804.6	2586.8	2536.5	2740.8	2835.6	3060.7	3210.3	3161.4
27.5°	3886.9	3844.0	3679.6	3386.5	3053.3	2792.7	2890.4	2977.8	3222.1	3402.8	3300.6
30°	4449.6	4428.9	4294.1	4032.1	3664.8	3284.3	3168.8	3226.6	3436.8	3645.6	3540.4
32.5°	4925.0	4925.0	4787.2	4542.9	4199.4	3861.8	3641.1	3682.6	3884.0	4125.4	3929.9
35°	5447.7	5429.9	5318.8	5086.4	4701.4	4403.7	4313.4	4369.7	4551.8	4731.0	4249.7
37.5°	5997.0	5991.1	5875.6	5650.5	5336.6	4962.0	4750.2	4765.0	4858.3	4967.9	4624.3
40°	6593.8	6602.6	6451.6	6312.4	6016.3	5632.8	5227.1	5133.7	5221.1	5530.6	5315.9
42.5°	7298.6	7277.8	7212.7	7023.2	6784.8	6555.3	6068.1	6034.0	6111.0	6442.7	6210.3
45°	8117.4	8147.0	8034.5	7929.4	7769.5	7578.4	7171.2	7112.0	7196.4	7711.7	7381.5
47.5°	8937.8	8909.6	8982.2	8963.0	9048.8	8906.7	8546.8	8425.5	8628.3	9116.9	8631.3
50°	9562.7	9593.7	9744.8	9965.4	10334.1	10414.1	10069.0	10027.6	10117.9	10431.8	9749.2
52.5°	9968.4	10072.0	10309.0	10876.1	11541.0	12057.7	11795.6	11773.4	11736.4	11820.8	10818.3
55°	10233.5	10338.6	10648.1	11483.2	12627.8	13467.4	13480.7	13385.9	13141.6	13080.9	11817.8
57.5°	10070.6	10091.2	10532.5	11649.0	13230.4	14472.8	14908.2	14813.4	14361.8	14132.2	12700.4
60°	9051.8	9094.7	9709.3	11021.2	12968.4	14801.5	15854.4	15811.4	15316.8	15057.7	13387.4
62.5°	7246.7	7371.1	8003.5	9466.4	11749.7	14247.7	16237.9	16359.3	15974.3	15617.4	13603.6
63°	6915.0	6875.1	7542.9	9013.2	11426.9	13973.8	16243.7	16397.7	16003.9	15670.7	13544.4
65°	5118.9	5238.8	5672.7	7107.5	9509.4	12698.8	15878.0	16150.5	15894.3	15435.3	12888.4
67.5°	2874.1	2868.2	3347.9	4651.0	6655.9	9961.0	14357.3	14933.3	14880.0	13850.8	10683.6
70°	1406.7	1428.9	1625.8	2410.6	3860.3	6872.1	11930.3	12552.3	12571.5	10879.0	7387.4
72.5°	636.7	647.1	787.8	1174.2	1984.2	3658.9	8221.1	8814.9	8705.3	6932.9	4079.4
75°	336.1	358.4	433.9	590.8	956.6	1508.8	4471.8	5046.3	4816.8	3167.3	1501.4
77.5°	248.8	256.2	294.7	376.1	512.3	587.9	1929.4	2295.2	2150.0	1146.1	497.5
80°	182.2	188.0	219.2	266.5	322.8	299.1	727.0	833.7	747.8	389.5	152.6
82.5°	111.1	112.5	160.0	198.4	202.8	167.4	239.9	257.7	269.5	219.2	82.9
85°	39.9	50.4	108.1	143.6	119.9	84.4	100.7	111.1	121.4	139.2	48.9
87.5°	4.5	5.9	51.8	69.6	34.1	31.1	37.0	41.5	44.4	51.8	23.7
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°	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9	2201.9
2.5°	2215.2	2221.1	2216.7	2209.3	2207.8	2203.3	2194.4	2194.4	2194.4	2197.4	2194.4
5°	2247.7	2252.2	2241.9	2227.1	2210.7	2190.0	2167.8	2154.5	2153.0	2150.0	2142.6
7.5°	2310.0	2315.9	2292.2	2256.7	2212.3	2161.9	2114.5	2070.1	2049.3	2033.0	2033.0
10°	2400.3	2406.2	2358.8	2295.2	2206.3	2104.1	1991.6	1889.4	1809.5	1772.5	1763.6
12.5°	2508.4	2511.3	2432.8	2321.8	2175.2	1978.3	1738.4	1514.8	1359.3	1288.2	1280.8
15°	2626.9	2606.1	2502.5	2332.2	2086.4	1719.2	1304.6	1030.6	869.2	821.8	839.6
17.5°	2746.8	2708.3	2555.8	2315.9	1886.4	1304.6	876.6	703.3	653.0	639.7	639.7
20°	2859.3	2806.0	2594.2	2244.8	1540.0	898.8	650.0	608.5	599.7	590.8	592.3
22.5°	2971.8	2890.4	2628.3	2086.4	1147.5	642.6	582.0	568.6	556.7	544.9	543.5
25°	3081.4	2968.9	2641.7	1793.2	781.8	552.3	531.6	513.9	490.1	476.8	473.8
27.5°	3195.5	3063.7	2632.8	1423.0	570.1	494.6	473.8	448.7	420.5	396.9	396.9
30°	3414.6	3244.3	2601.6	1023.2	479.8	435.3	408.7	368.7	337.6	313.9	312.4
32.5°	3713.7	3479.7	2495.1	719.6	426.5	383.5	343.5	299.1	266.5	248.8	248.8
35°	3980.2	3716.6	2295.2	530.1	383.5	333.2	284.3	241.4	216.2	204.4	199.9
37.5°	4386.0	4063.1	2019.7	430.9	342.0	288.7	238.4	198.4	177.7	168.8	168.8
40°	4994.5	4486.7	1682.1	377.6	302.1	245.8	198.4	167.4	151.0	140.7	140.7
42.5°	5749.7	5004.9	1340.0	339.1	265.1	211.8	165.8	142.1	127.3	119.9	118.5
45°	6700.3	5551.3	1032.1	303.5	235.5	180.6	140.7	119.9	105.1	100.7	102.2
47.5°	7692.5	6032.6	799.6	272.5	204.4	152.6	119.9	103.6	93.3	87.4	87.4
50°	8539.4	6364.3	607.1	236.9	180.6	128.8	105.1	93.3	84.4	81.4	80.0
52.5°	9247.2	6460.5	465.0	205.8	158.4	111.1	93.3	84.4	77.0	72.6	72.6
55°	9849.9	6376.1	364.2	173.2	133.3	96.2	82.9	75.5	66.6	62.1	60.7
57.5°	10202.3	6105.1	278.4	143.6	108.1	80.0	72.6	63.7	53.3	45.9	45.9
60°	10380.0	5711.2	213.2	118.5	82.9	63.7	59.2	47.3	37.0	31.1	29.6
62.5°	10166.8	5188.5	161.4	93.3	62.1	47.3	39.9	34.1	23.7	17.7	17.7
63°	10035.0	5037.5	155.5	88.8	57.8	44.4	37.0	31.1	20.7	16.3	14.8
65°	9148.1	4378.6	127.3	71.1	45.9	31.1	25.1	22.2	14.8	7.4	5.9
67.5°	7264.6	3349.5	100.7	53.3	32.5	22.2	14.8	13.3	4.5	0.0	0.0
70°	4911.6	2163.4	78.5	38.5	22.2	13.3	7.4	5.9	1.5	0.0	0.0
72.5°	2561.7	1109.1	60.7	28.2	13.3	8.9	4.5	1.5	0.0	0.0	0.0
75°	906.2	377.6	44.4	17.7	8.9	4.5	1.5	0.0	0.0	0.0	0.0
77.5°	273.9	140.7	28.2	13.3	5.9	2.9	0.0	0.0	0.0	0.0	0.0
80°	96.2	51.8	16.3	8.9	4.5	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	47.3	25.1	10.3	7.4	4.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	26.7	16.3	8.9	7.4	4.5	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	19.3	11.9	8.9	7.4	5.9	2.9	1.5	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)