

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: P648401

Luminaire Tested: **GALN-SA4B-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13799.6 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

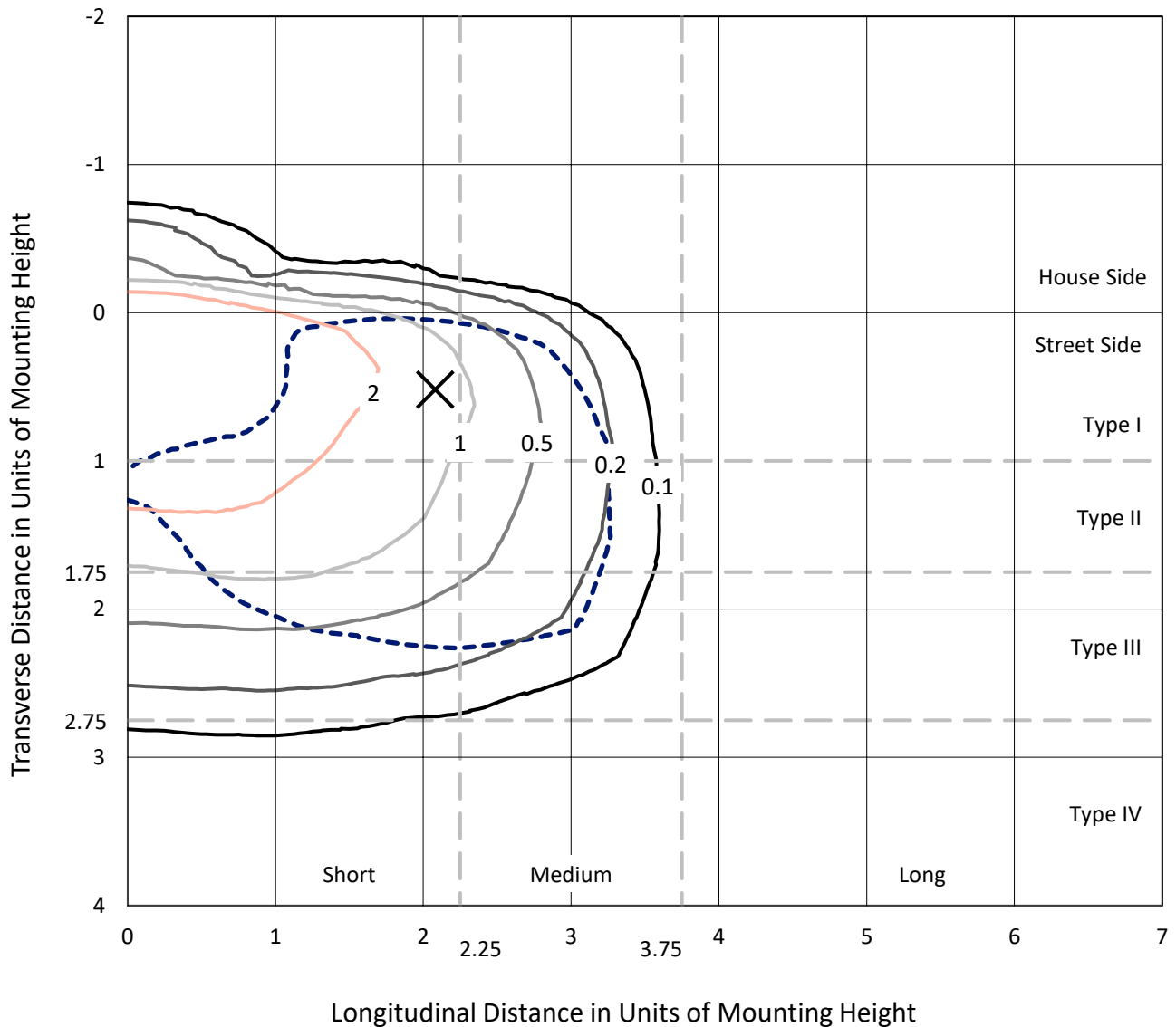
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

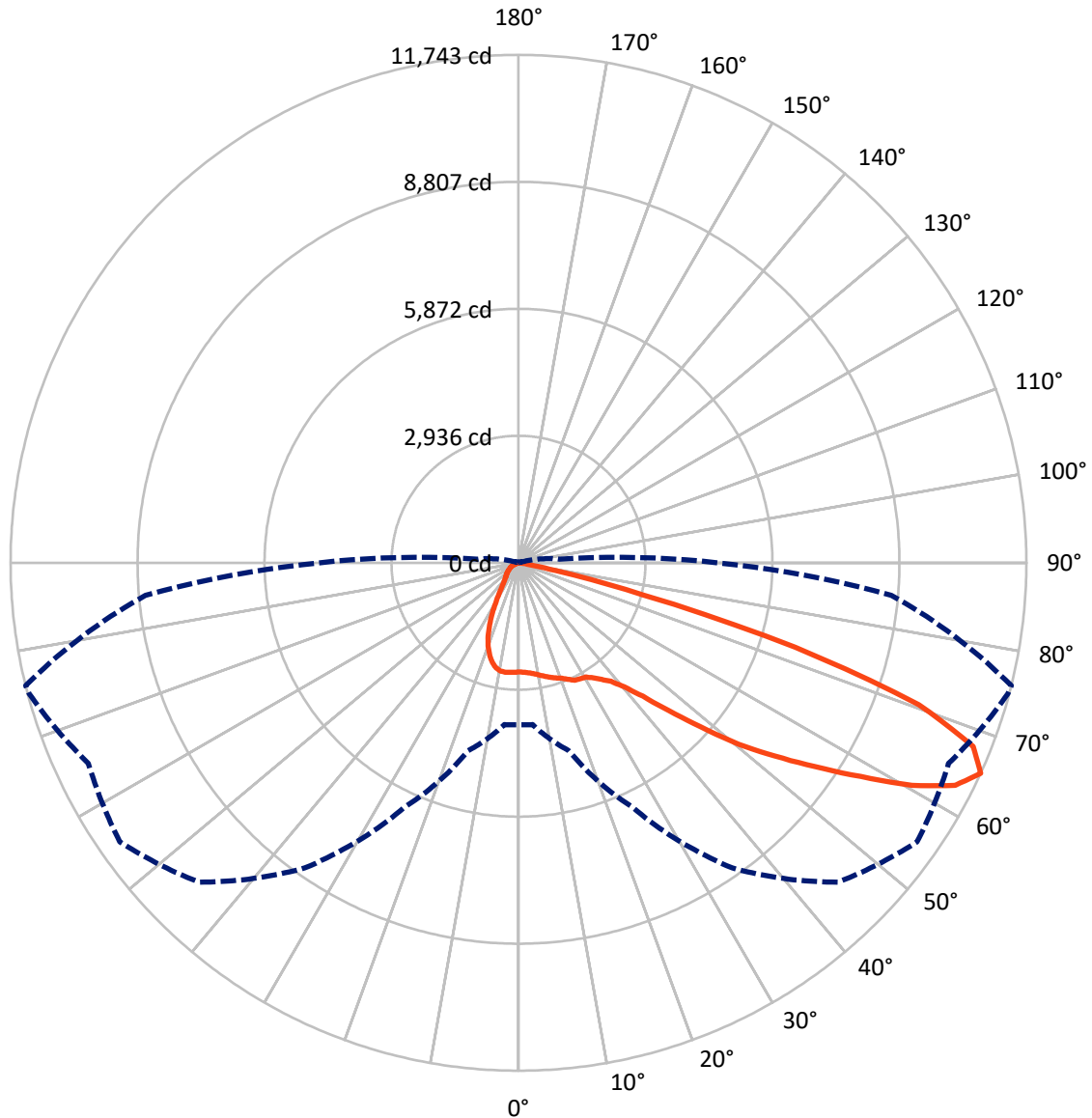
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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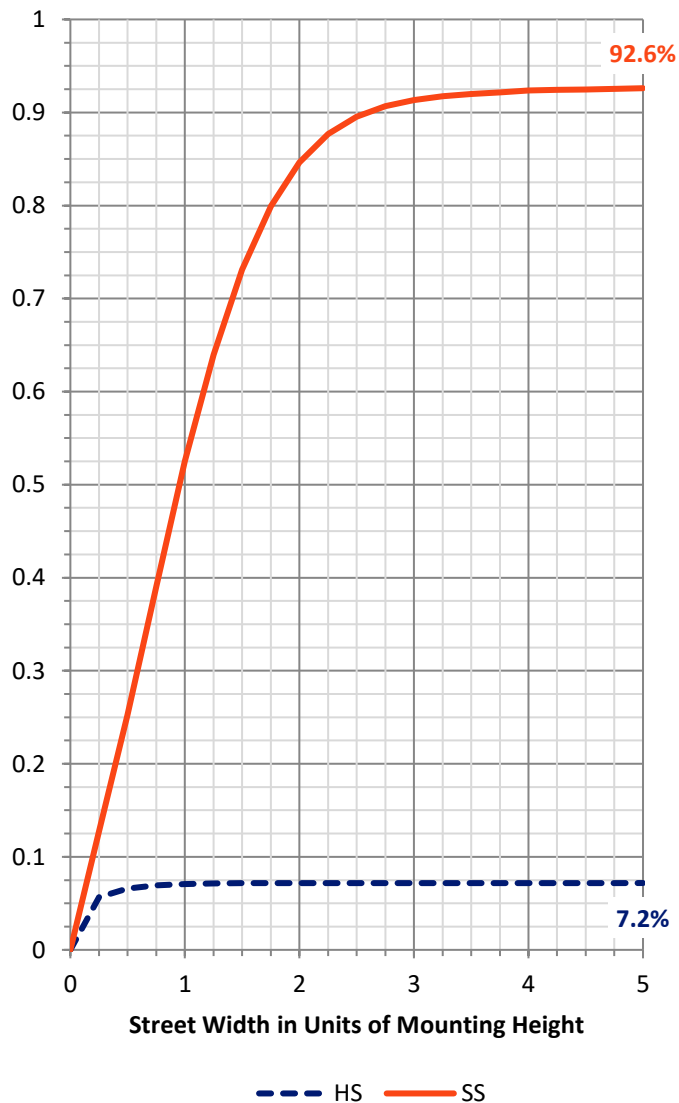
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	996.6	0.0	996.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	12803.0	0.0	12803.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	13799.6	0.0	13799.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.9	1.5
10°-20°	463.0	3.4
20°-30°	746.1	5.4
30°-40°	1297.3	9.4
40°-50°	2143.7	15.5
50°-60°	3311.6	24.0
60°-70°	4043.9	29.3
70°-80°	1534.8	11.1
80°-90°	51.2	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°	13799.6	100.0
0°-180°	13799.6	100.0

Coefficient of Utilization

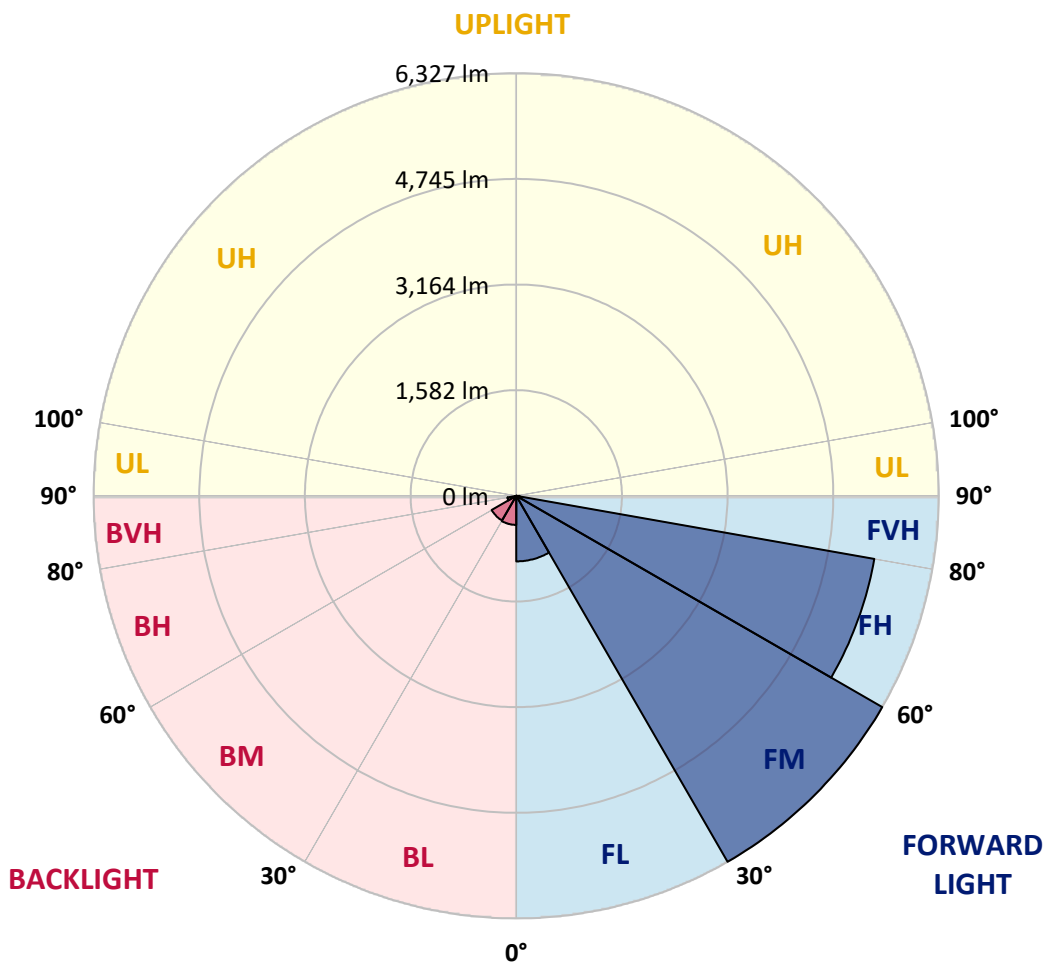


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	981.7	7.1			
FM (30°-60°)	6327.3	45.9			
FH (60°-80°)	5443.5	39.4			G3/7500
FVH (80°-90°)	50.5	0.4			G1/100
BL (0°-30°)	435.4	3.2	B1/500		
BM (30°-60°)	425.3	3.1	B1/1000		
BH (60°-80°)	135.2	1.0	B1/500		G1/500
BVH (80°-90°)	0.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2524.4	2524.4	2524.4	2524.4	2524.4	2524.4	2524.4	2524.4	2524.4	2524.4	2524.4
2.5°	2412.3	2413.3	2419.2	2433.8	2456.2	2474.7	2490.3	2515.6	2533.2	2535.1	2540.9
5°	2245.7	2234.1	2245.7	2283.7	2317.8	2369.4	2432.8	2496.1	2552.7	2556.6	2583.8
7.5°	2058.7	2068.5	2086.9	2125.9	2190.2	2269.1	2360.7	2473.7	2580.9	2590.6	2644.2
10°	1868.7	1890.2	1920.3	1979.7	2069.4	2171.7	2296.4	2458.2	2625.7	2639.3	2731.9
12.5°	1693.3	1703.0	1740.1	1820.0	1931.0	2075.3	2247.7	2449.4	2675.4	2692.0	2825.5
15°	1558.9	1571.6	1603.7	1675.8	1799.5	1984.6	2207.7	2446.4	2724.1	2747.5	2918.9
17.5°	1533.5	1541.3	1555.0	1603.7	1711.8	1912.6	2171.7	2445.5	2770.9	2799.1	3005.7
20°	1637.8	1631.0	1617.3	1612.4	1671.9	1857.0	2145.4	2453.3	2815.7	2847.8	3097.2
22.5°	1898.9	1907.6	1827.8	1733.2	1713.8	1848.2	2141.5	2490.3	2886.8	2924.8	3199.6
25°	2453.3	2386.0	2261.3	2035.3	1864.8	1901.8	2185.4	2577.9	2969.6	3011.5	3292.1
27.5°	3066.1	3045.6	2851.8	2479.6	2161.9	2014.8	2263.3	2645.2	2996.9	3039.8	3344.7
30°	3668.2	3692.5	3470.4	3059.3	2593.5	2224.3	2336.3	2670.5	3021.3	3066.1	3412.0
32.5°	4226.5	4255.7	4060.9	3653.6	3102.2	2586.7	2462.1	2768.9	3123.5	3169.3	3524.0
35°	4665.9	4669.7	4522.7	4198.2	3657.5	3027.2	2733.8	2941.4	3261.9	3315.5	3642.9
37.5°	5069.2	5063.3	4890.9	4611.3	4120.3	3464.5	3075.9	3140.1	3419.8	3475.3	3814.4
40°	5368.3	5372.2	5316.7	5053.6	4551.9	3868.9	3346.7	3326.3	3684.8	3771.5	4063.8
42.5°	5568.1	5604.1	5631.4	5497.9	5094.6	4366.8	3762.7	3724.7	4144.7	4216.7	4416.4
45°	5729.8	5794.1	5930.5	5923.7	5615.8	4977.6	4333.7	4255.7	4796.4	4873.4	4865.6
47.5°	5847.7	5913.0	6139.0	6275.4	6105.9	5570.0	5051.7	4984.5	5574.9	5658.7	5361.5
50°	5908.1	5986.0	6274.4	6538.4	6488.8	6140.9	5870.1	5874.0	6515.1	6595.9	5936.3
52.5°	5766.8	5868.1	6346.5	6822.0	6918.4	6687.5	6636.9	6765.4	7352.0	7421.2	6455.7
55°	5315.7	5443.3	6248.1	7063.6	7416.3	7332.5	7507.9	7703.7	8266.8	8311.7	6988.6
57.5°	5030.2	5165.7	5957.8	7269.2	8014.5	8143.1	8420.8	8564.0	9211.0	9324.9	7600.4
60°	4789.6	4895.8	5719.1	7313.0	8622.5	9134.9	9404.8	9552.9	10376.2	10450.2	8273.6
62.5°	4389.2	4510.9	5315.7	7007.1	8928.4	9929.0	10488.2	10422.0	11277.4	11329.1	8686.8
65°	3745.2	3755.9	4497.3	6238.4	8612.7	10444.4	11249.1	10971.5	11708.0	11743.1	8654.7
67.5°	2795.2	2898.5	3459.7	4903.6	7275.0	10004.0	11495.6	10986.1	11436.2	11338.8	7967.7
70°	1800.5	1879.4	2345.1	3400.3	5245.6	8348.7	10678.2	10232.9	10037.1	9820.9	6521.9
72.5°	831.1	932.4	1393.3	1942.7	3110.9	5947.0	8668.3	8313.6	7224.3	6690.4	4145.6
75°	362.5	387.7	687.9	1024.9	1458.5	3145.0	5715.2	5160.8	3262.9	2980.3	1659.2
77.5°	221.2	237.7	360.5	549.5	572.9	1198.4	3078.8	2251.6	1008.4	889.5	450.1
80°	150.0	168.6	262.1	287.4	195.8	334.2	1155.5	601.1	203.7	194.9	96.5
82.5°	73.1	92.6	193.9	160.7	84.8	107.2	336.1	128.6	59.4	55.5	34.1
85°	10.7	18.5	109.2	105.2	38.0	25.4	59.4	32.2	20.4	19.5	15.6
87.5°	0.0	0.0	37.0	16.6	3.9	3.9	6.8	6.8	7.8	6.8	7.8
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°	2524.4	2524.4	2524.4	2524.4	2524.4	2524.4	2524.4	2524.4	2524.4	2524.4	2524.4
2.5°	2543.9	2548.7	2530.3	2504.0	2475.7	2447.4	2407.5	2371.4	2350.0	2362.6	2331.5
5°	2589.7	2585.8	2537.1	2457.1	2351.0	2223.3	2096.6	1988.5	1953.4	1900.8	1895.0
7.5°	2653.0	2642.3	2539.0	2355.8	2116.1	1876.5	1642.7	1487.8	1399.1	1324.1	1326.0
10°	2741.7	2710.5	2516.6	2177.5	1783.0	1421.5	1123.4	918.8	830.1	801.9	779.4
12.5°	2833.2	2772.8	2454.2	1936.9	1388.3	971.4	683.0	558.3	503.7	486.2	484.2
15°	2915.1	2819.6	2345.1	1647.5	1009.4	620.6	465.7	424.8	418.0	419.0	418.0
17.5°	2995.9	2856.6	2194.1	1340.7	685.9	445.2	400.4	390.7	393.6	397.5	396.5
20°	3063.2	2864.4	2001.2	1023.0	485.2	390.7	376.1	374.1	377.0	380.0	380.0
22.5°	3136.2	2870.2	1772.2	708.3	396.5	363.4	355.6	355.6	359.5	363.4	364.4
25°	3190.8	2838.1	1498.4	508.6	349.8	337.1	333.2	334.2	338.1	340.1	339.0
27.5°	3199.6	2747.5	1208.1	389.7	317.6	305.0	301.1	305.0	300.0	303.0	301.1
30°	3207.3	2632.5	913.9	328.3	288.4	268.9	263.1	257.2	253.3	248.4	247.5
32.5°	3231.8	2497.1	667.4	295.2	261.1	239.7	226.1	209.5	196.8	192.9	191.9
35°	3242.4	2334.4	490.1	268.9	236.8	213.4	189.0	165.6	147.1	140.3	145.2
37.5°	3283.4	2176.6	380.0	249.4	215.3	186.1	154.9	125.7	108.1	104.2	106.2
40°	3367.1	2005.1	318.6	232.9	196.8	160.7	122.8	94.5	82.8	78.9	77.9
42.5°	3501.6	1834.6	283.5	217.3	178.3	135.5	96.5	74.1	64.3	61.4	61.4
45°	3665.3	1670.9	259.2	200.7	158.8	109.2	76.0	59.4	53.6	51.6	51.6
47.5°	3880.6	1527.7	238.7	184.2	137.3	86.7	61.4	51.6	47.8	48.7	49.7
50°	4098.8	1421.5	216.3	165.6	113.0	71.1	52.6	45.8	44.8	45.8	45.8
52.5°	4263.5	1359.1	186.1	140.3	88.6	59.4	46.7	42.8	41.9	39.9	39.9
55°	4485.7	1345.5	148.1	114.0	70.2	49.7	41.9	39.0	36.0	34.1	33.1
57.5°	4771.1	1361.1	114.0	88.6	54.6	41.0	37.0	32.2	28.3	24.4	24.4
60°	4948.4	1326.0	88.6	68.2	39.9	33.1	28.3	23.4	18.5	15.6	14.6
62.5°	4891.9	1177.9	70.2	50.7	28.3	24.4	18.5	15.6	10.7	7.8	6.8
65°	4600.6	950.9	56.5	35.1	20.4	14.6	9.7	9.7	4.9	0.9	0.0
67.5°	4026.7	704.4	44.8	23.4	11.7	6.8	4.9	2.9	0.0	0.0	0.0
70°	3277.5	508.6	35.1	14.6	6.8	4.9	2.0	0.9	0.0	0.0	0.0
72.5°	2081.1	291.3	27.2	8.8	4.9	2.0	0.0	0.0	0.0	0.0	0.0
75°	804.8	114.0	18.5	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	228.0	53.6	10.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	59.4	23.4	5.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.3	9.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.6	3.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	0.9	0.0	0.0	0.0	0.0	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)