

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: P382984

Luminaire Tested: **GLEON-SA3B-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 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: 12499.5 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 124
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

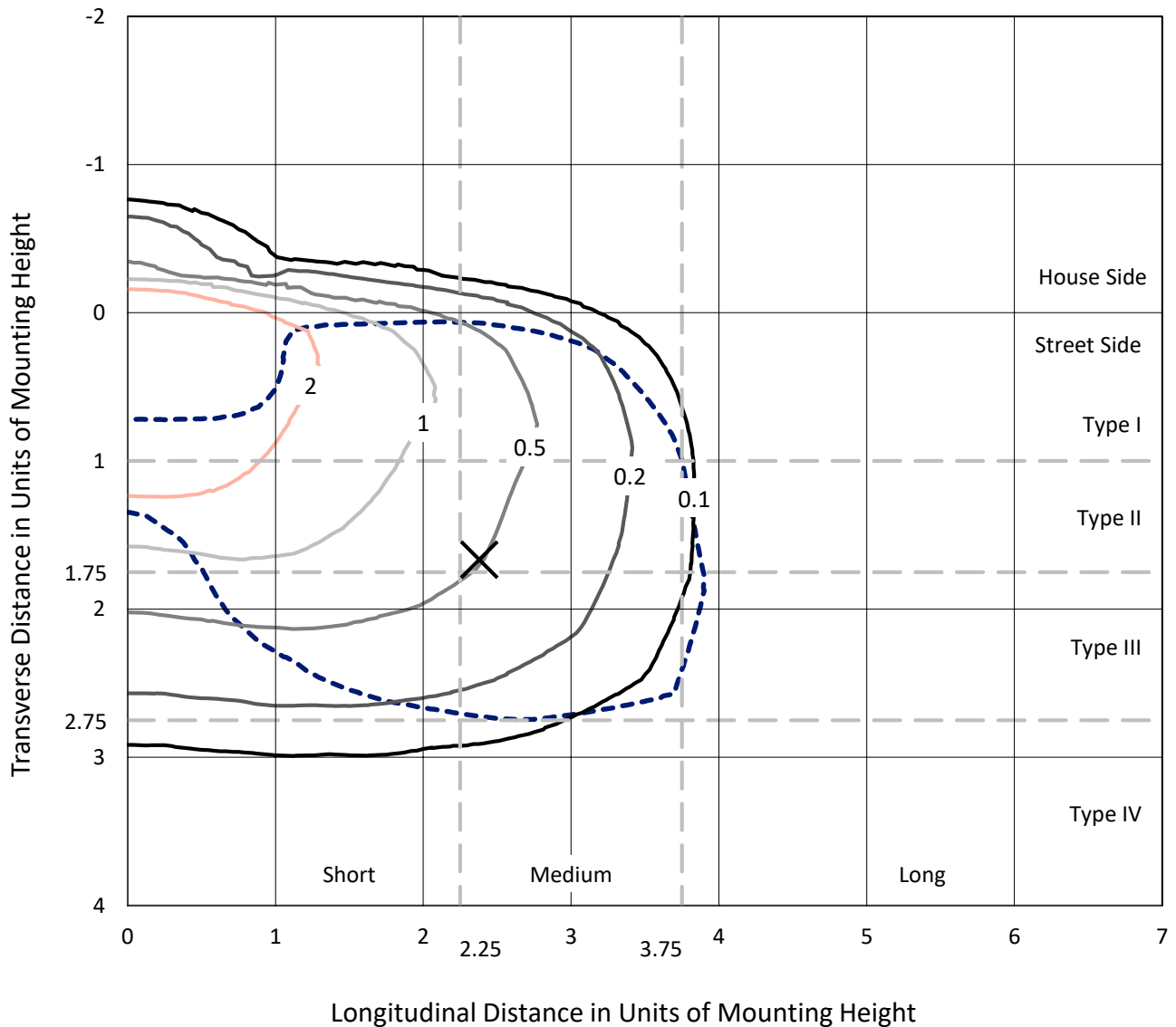




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Iso-Footcandle Lines of Horizontal Illumination

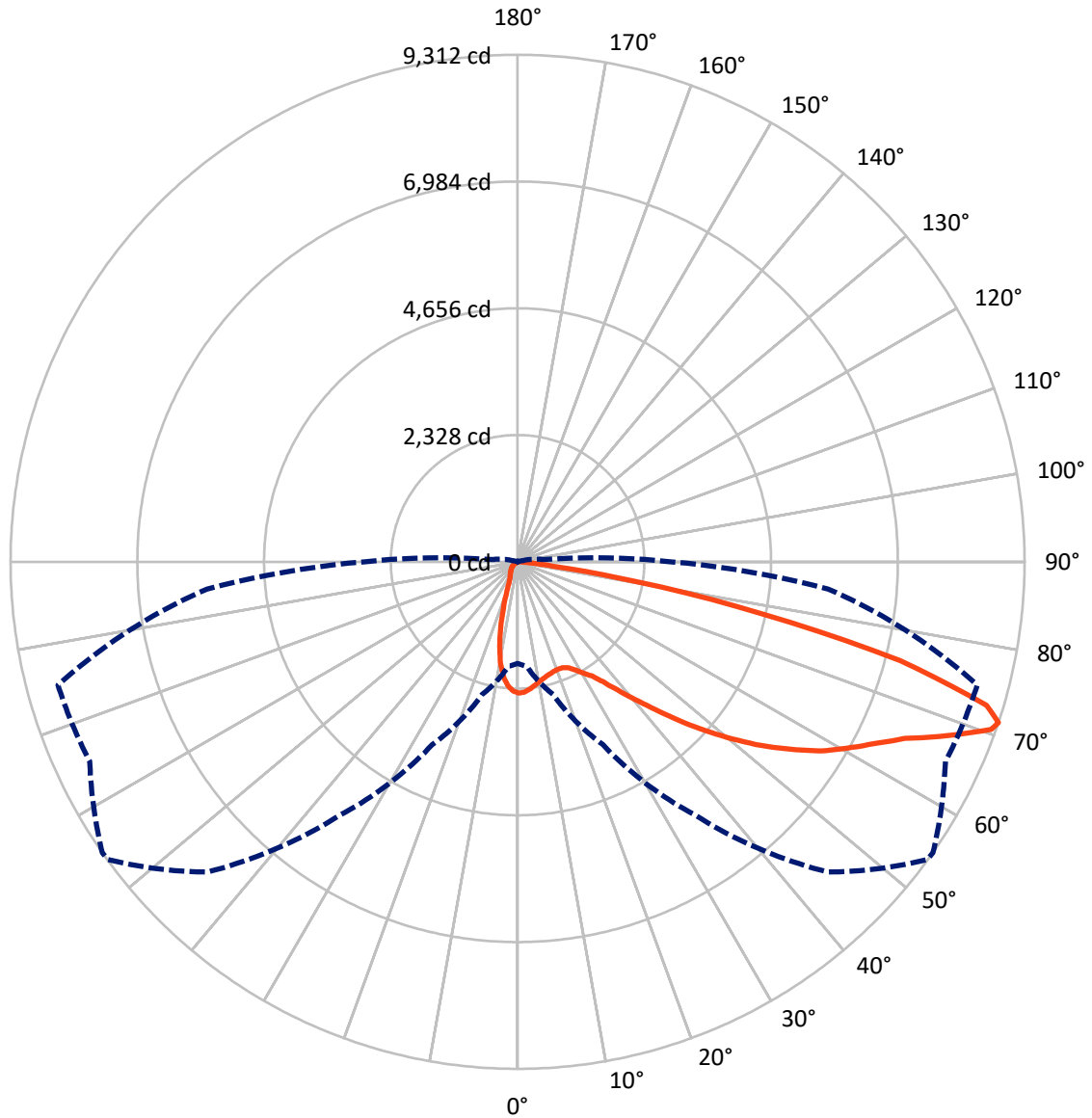
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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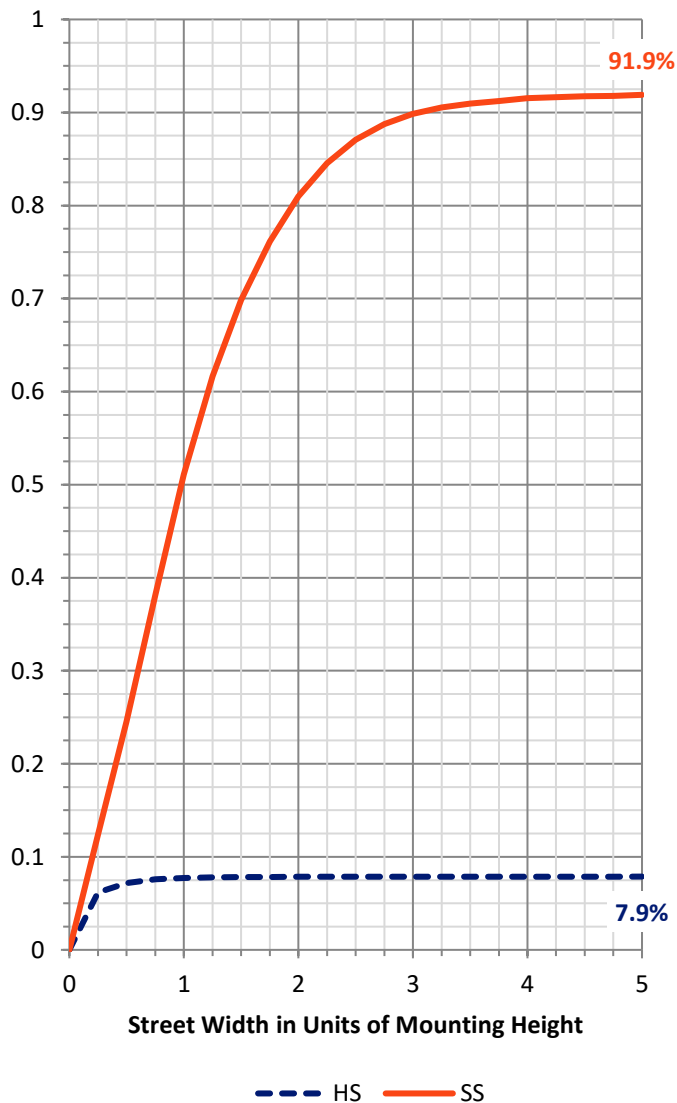
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	989.6	0.0	989.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	11509.9	0.0	11509.9
	% Fixture	92.1	0.0	92.1
Total	Lumens	12499.5	0.0	12499.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.5	1.6
10°-20°	464.0	3.7
20°-30°	745.7	6.0
30°-40°	1266.9	10.1
40°-50°	1966.5	15.7
50°-60°	2643.8	21.2
60°-70°	3234.3	25.9
70°-80°	1891.0	15.1
80°-90°	81.7	0.7
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°	12499.5	100.0
0°-180°	12499.5	100.0

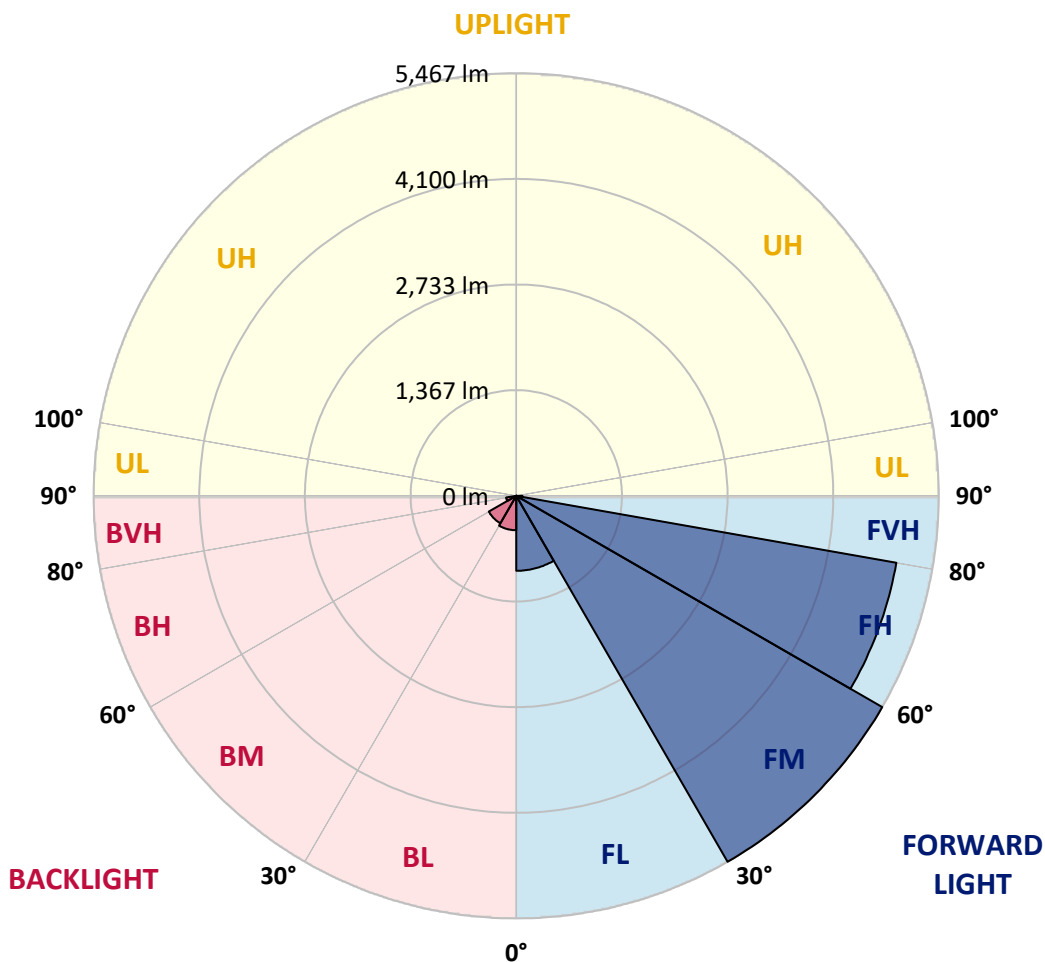


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.8	7.8			
FM (30°-60°)	5466.9	43.7			
FH (60°-80°)	4992.7	39.9			G2/5000
FVH (80°-90°)	80.5	0.6			G1/100
BL (0°-30°)	445.4	3.6	B1/500		
BM (30°-60°)	410.3	3.3	B1/1000		
BH (60°-80°)	132.6	1.1	B1/500		G1/500
BVH (80°-90°)	1.3	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-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6
2.5°	2339.9	2342.7	2352.8	2357.3	2367.9	2385.9	2394.8	2395.4	2410.0	2415.6	2420.2
5°	2174.3	2191.1	2208.0	2225.9	2258.4	2301.7	2344.3	2348.2	2395.4	2430.2	2448.8
7.5°	2031.7	2046.9	2067.1	2095.7	2141.7	2209.6	2280.9	2289.4	2378.6	2457.7	2499.2
10°	1885.3	1897.6	1926.8	1968.8	2032.3	2123.2	2219.2	2233.2	2363.4	2494.8	2567.7
12.5°	1728.7	1735.9	1771.3	1831.9	1925.1	2040.7	2167.0	2185.5	2353.9	2537.4	2648.6
15°	1609.7	1613.1	1646.7	1709.6	1816.2	1966.6	2126.5	2149.0	2356.2	2588.5	2736.7
17.5°	1579.3	1581.0	1599.0	1642.2	1736.5	1900.4	2094.6	2122.1	2362.9	2638.4	2825.4
20°	1702.3	1690.5	1671.9	1665.2	1705.7	1860.6	2075.5	2106.4	2371.8	2682.8	2905.0
22.5°	2039.6	2004.8	1927.9	1825.2	1762.9	1863.4	2080.5	2111.4	2400.5	2737.3	2997.1
25°	2540.2	2492.0	2361.2	2159.1	1964.9	1944.1	2122.6	2154.1	2456.0	2802.3	3085.2
27.5°	3109.9	3062.2	2902.2	2613.7	2282.6	2104.1	2219.2	2248.4	2538.6	2860.1	3152.5
30°	3655.4	3642.0	3453.3	3125.6	2682.2	2363.4	2343.8	2368.5	2599.7	2895.0	3205.8
32.5°	4117.9	4096.6	3945.0	3626.2	3139.6	2674.9	2490.3	2497.6	2645.8	2939.9	3275.5
35°	4546.7	4520.3	4387.3	4086.0	3608.8	3055.5	2715.9	2705.2	2746.2	3030.2	3376.5
37.5°	4921.1	4945.2	4797.6	4510.7	4029.8	3451.1	3020.1	2988.1	2903.4	3177.2	3523.0
40°	5234.3	5234.3	5157.3	4918.3	4484.4	3860.3	3364.1	3322.1	3139.6	3404.0	3708.8
42.5°	5347.1	5371.2	5399.8	5264.5	4891.3	4285.7	3747.4	3703.7	3472.4	3725.6	3943.3
45°	5353.8	5392.0	5538.4	5537.9	5259.0	4708.3	4179.7	4158.9	3899.0	4138.7	4234.1
47.5°	5259.0	5306.7	5547.9	5685.0	5550.3	5101.8	4652.2	4626.4	4400.2	4644.9	4538.3
50°	5112.4	5165.2	5445.8	5742.7	5748.3	5444.2	5150.1	5111.3	4951.9	5223.6	4852.6
52.5°	4850.3	4952.5	5354.3	5756.2	5878.5	5739.9	5623.8	5606.9	5569.3	5780.9	5102.9
55°	4289.7	4403.1	5124.8	5760.7	5999.3	6002.1	6067.7	6072.2	6147.9	6301.7	5289.2
57.5°	4024.8	4088.7	4724.1	5782.0	6178.2	6299.5	6520.1	6554.8	6672.1	6796.2	5501.9
60°	3858.0	3933.8	4526.5	5752.9	6459.4	6689.5	6939.3	6951.1	7076.8	7306.4	5789.8
62.5°	3725.0	3799.7	4401.9	5640.6	6775.4	7158.8	7349.0	7350.2	7444.5	7914.2	6117.1
65°	3396.7	3459.6	4149.9	5514.3	6984.2	7622.9	7825.0	7817.6	7894.6	8555.1	6497.1
67.5°	2921.9	2970.1	3635.3	5035.6	6905.7	8044.9	8543.4	8519.2	8426.0	9109.1	6646.3
70°	2259.0	2276.4	2865.2	4196.4	6169.3	8207.2	9237.6	9225.3	8752.2	9009.7	6099.1
71°	1867.3	1924.6	2525.1	3703.7	5675.9	8057.3	9304.9	9312.3	8670.2	8739.2	5722.5
72.5°	1084.3	1133.1	1830.2	2844.4	4818.9	7432.1	8955.9	9008.6	8287.4	7949.0	4887.9
75°	232.3	248.6	678.5	1376.7	2650.8	5208.9	7069.0	7256.9	6754.7	5407.6	2946.0
77.5°	161.6	174.6	290.7	624.7	876.1	2573.9	4391.2	4603.4	4035.4	2032.3	942.9
80°	128.0	142.5	226.7	308.7	236.9	830.1	2057.0	2186.6	1345.9	453.5	158.8
82.5°	71.3	84.8	176.8	166.7	90.9	157.7	575.9	651.1	269.4	91.5	37.6
85°	20.8	25.2	113.9	121.2	38.8	30.3	98.2	121.8	51.0	24.1	16.9
87.5°	0.0	0.0	55.0	46.6	11.2	4.5	8.9	10.1	10.1	10.1	11.2
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°	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6
2.5°	2420.2	2424.1	2410.0	2391.5	2371.8	2347.7	2322.4	2302.8	2302.2	2292.7	2283.1
5°	2449.9	2447.6	2408.9	2349.9	2280.3	2208.0	2138.9	2061.0	2035.1	2003.1	1992.5
7.5°	2504.8	2489.2	2407.2	2278.1	2125.4	1973.9	1817.4	1659.6	1592.3	1531.7	1521.0
10°	2573.9	2544.1	2396.5	2170.3	1890.3	1610.8	1374.5	1160.1	1065.8	993.4	990.0
12.5°	2645.8	2600.3	2366.8	2007.6	1582.1	1189.3	917.1	706.0	627.5	577.0	581.5
15°	2721.0	2653.0	2302.8	1788.1	1231.4	807.1	563.5	439.5	408.0	395.2	398.5
17.5°	2797.8	2689.5	2213.5	1523.8	885.1	520.8	390.0	355.3	355.3	358.1	359.2
20°	2864.6	2709.1	2082.3	1227.5	600.0	379.4	341.2	336.2	339.0	343.5	344.0
22.5°	2930.8	2710.2	1911.1	927.2	419.8	332.3	324.9	322.7	324.4	329.5	330.0
25°	2984.8	2696.8	1696.6	659.4	335.1	313.2	309.8	308.7	309.8	316.0	316.0
27.5°	3006.7	2648.0	1435.1	463.6	300.2	291.9	290.7	291.9	293.5	298.0	298.6
30°	3008.9	2562.7	1150.0	335.6	272.2	263.3	265.5	269.4	267.7	266.6	267.7
32.5°	3014.5	2463.9	872.2	276.1	248.6	234.6	231.8	231.8	225.1	221.1	218.9
35°	3033.0	2347.7	632.5	248.1	224.5	208.2	197.6	185.2	172.3	165.5	163.9
37.5°	3062.2	2225.9	452.9	229.5	203.2	184.6	164.4	142.5	124.1	119.0	119.0
40°	3115.5	2100.2	335.1	215.0	186.3	163.3	133.0	104.4	87.6	84.8	84.8
42.5°	3199.7	1967.7	267.2	202.1	171.8	141.4	101.6	75.7	63.4	61.8	61.2
45°	3287.2	1821.8	233.4	189.7	156.0	116.2	75.2	56.1	48.8	47.1	47.1
47.5°	3374.8	1666.4	217.2	177.9	140.8	90.4	56.1	44.3	41.0	41.0	41.5
50°	3448.9	1504.2	205.4	165.0	121.2	68.5	44.3	37.6	36.5	38.8	39.3
52.5°	3467.4	1344.8	190.8	148.8	97.1	52.2	36.5	33.1	33.1	33.1	33.1
55°	3456.2	1221.3	171.8	128.6	71.8	41.5	31.4	29.2	28.6	28.6	28.6
57.5°	3494.3	1148.3	137.5	99.9	51.6	33.6	27.5	25.8	24.7	24.1	24.1
60°	3571.3	1100.6	98.2	71.8	38.8	28.0	23.6	21.9	20.2	19.1	19.1
62.5°	3673.4	1059.1	72.9	53.3	29.7	22.5	19.7	18.0	15.7	14.6	14.6
65°	3752.0	985.0	55.5	39.9	22.5	18.0	15.2	14.6	11.2	10.1	9.5
67.5°	3631.8	822.3	44.9	29.2	16.9	14.1	11.8	11.2	6.7	5.6	5.6
70°	3114.9	572.4	36.0	21.3	12.4	11.2	9.5	7.3	5.0	4.5	4.5
71°	2824.7	478.2	32.5	18.0	10.6	10.6	8.9	6.1	4.5	3.9	3.9
72.5°	2346.6	339.5	27.5	14.1	9.5	11.2	9.5	5.6	4.5	3.9	3.4
75°	1362.2	142.0	19.1	9.5	7.3	13.5	12.4	5.0	3.4	2.8	2.8
77.5°	409.7	52.2	10.6	6.1	5.6	11.8	14.1	4.5	1.7	0.6	0.6
80°	74.6	22.5	6.7	3.9	3.9	7.3	10.6	2.2	0.0	0.0	0.0
82.5°	26.4	11.2	3.9	2.2	1.7	3.4	5.0	0.0	0.0	0.0	0.0
85°	15.2	7.8	2.2	1.1	0.0	0.6	1.1	0.0	0.0	0.0	0.0
87.5°	10.1	2.2	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)