

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: P322992

Luminaire Tested: **GLEON-SA8A-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8A-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19900 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

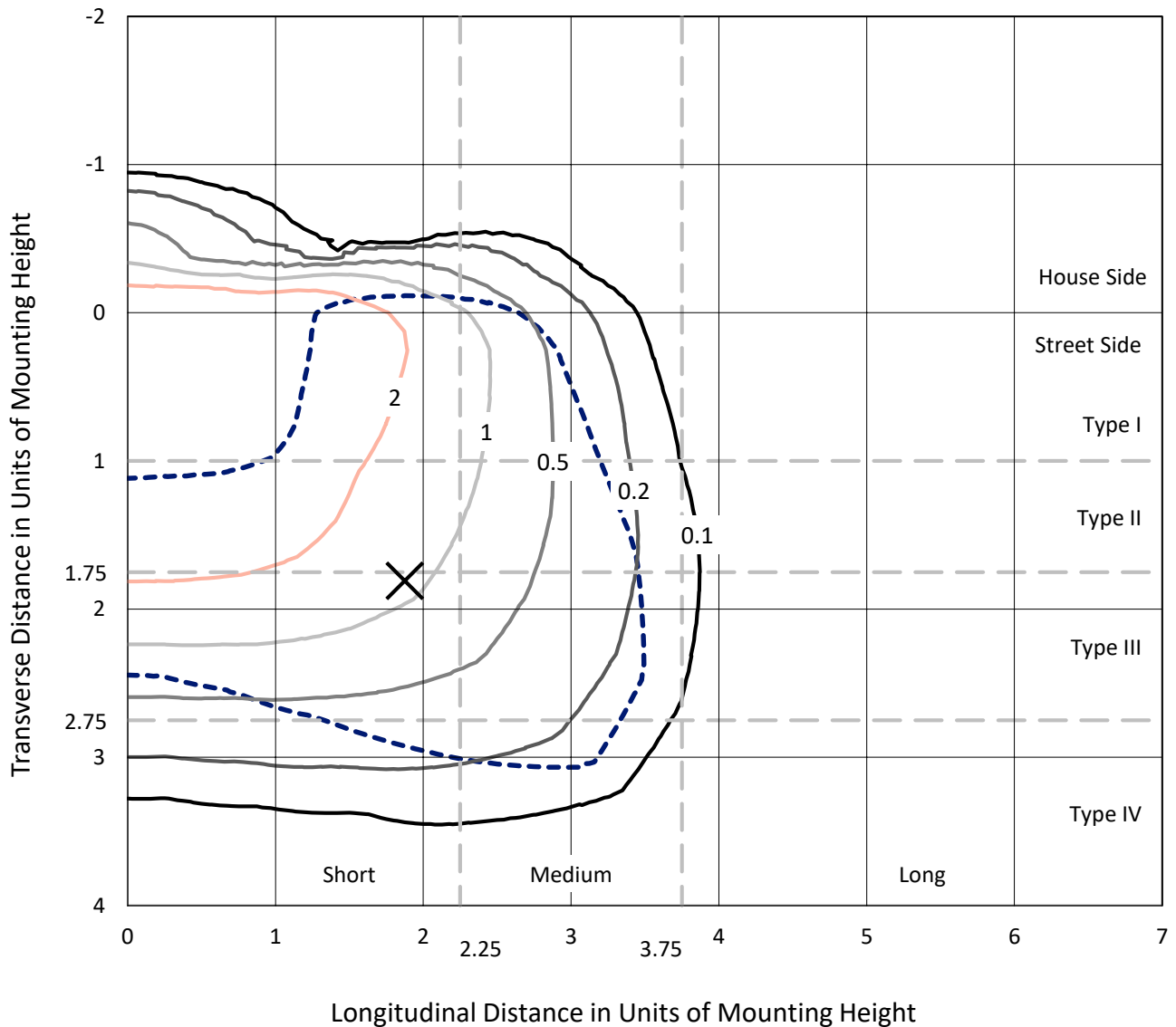
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

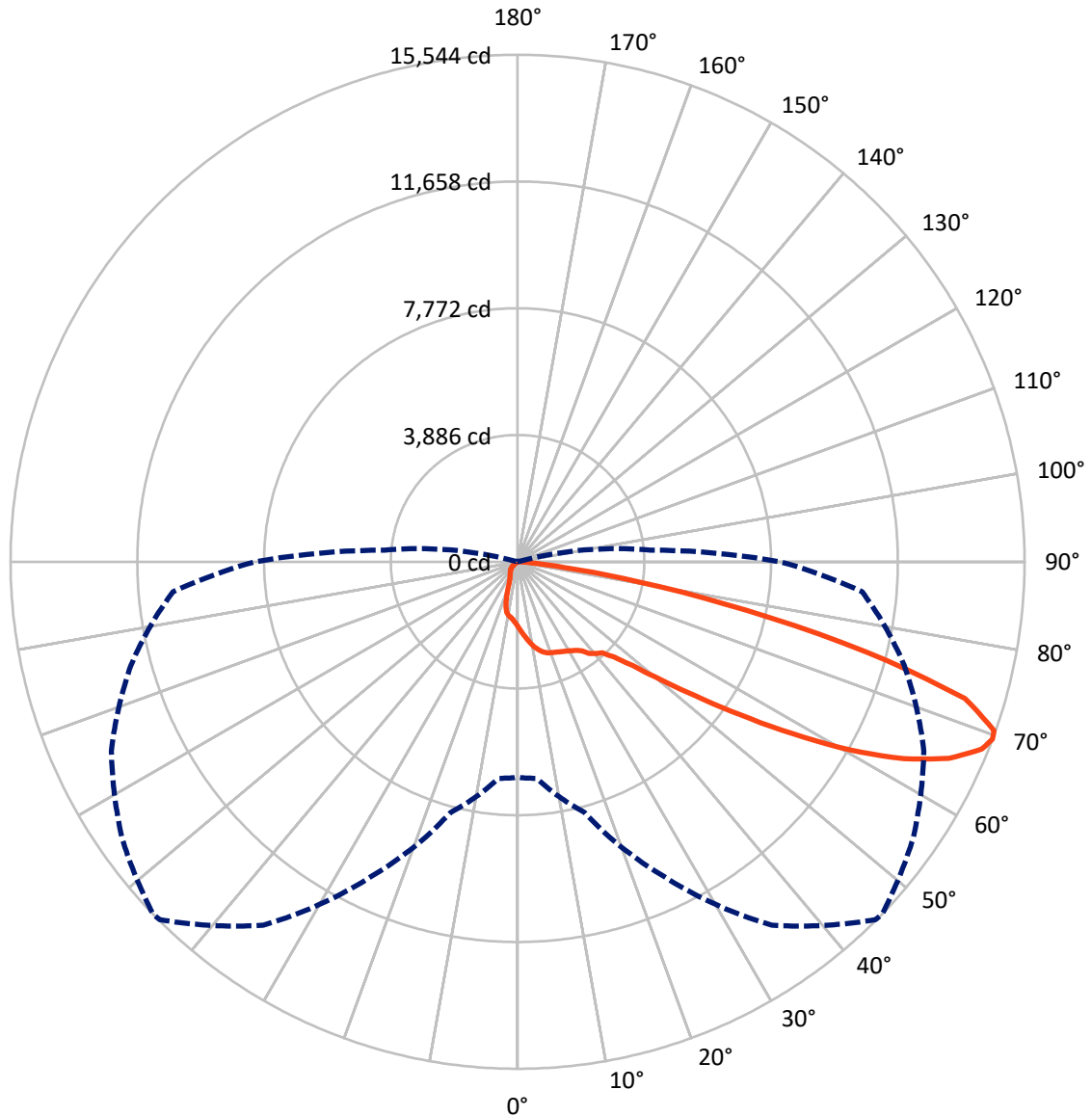
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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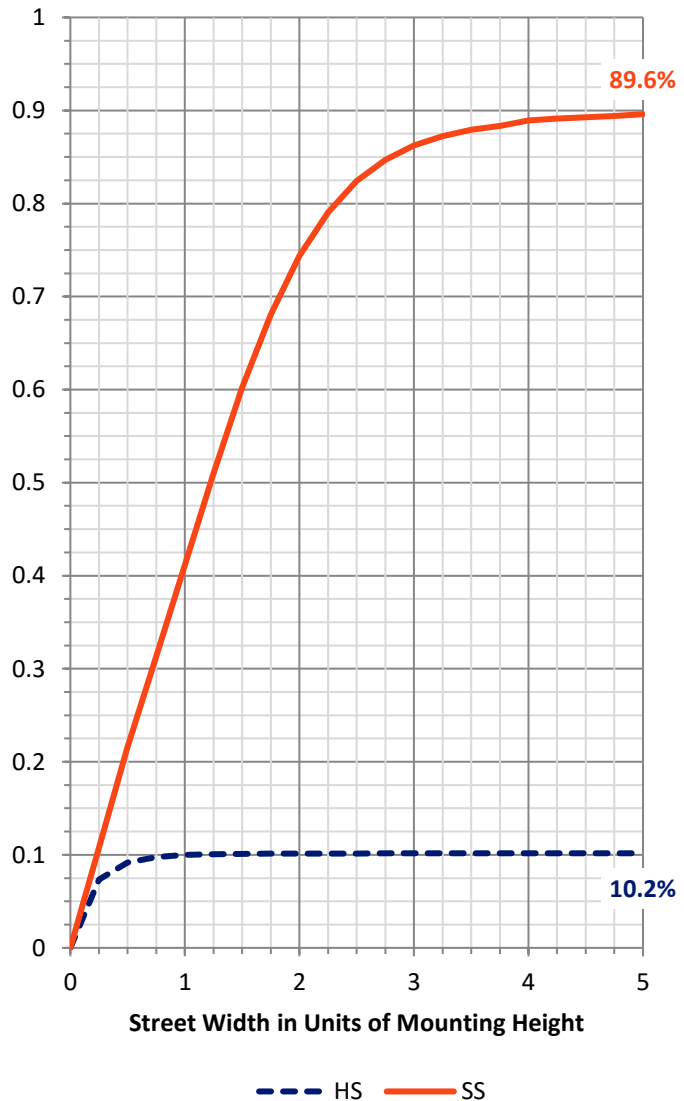
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2042.3	0.0	2042.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	17857.7	0.0	17857.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	19900.0	0.0	19900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.5	1.0
10°-20°	602.1	3.0
20°-30°	946.9	4.8
30°-40°	1357.8	6.8
40°-50°	2346.9	11.8
50°-60°	4636.4	23.3
60°-70°	6479.8	32.6
70°-80°	3130.5	15.7
80°-90°	201.2	1.0
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°	19900.0	100.0
0°-180°	19900.0	100.0

Coefficient of Utilization

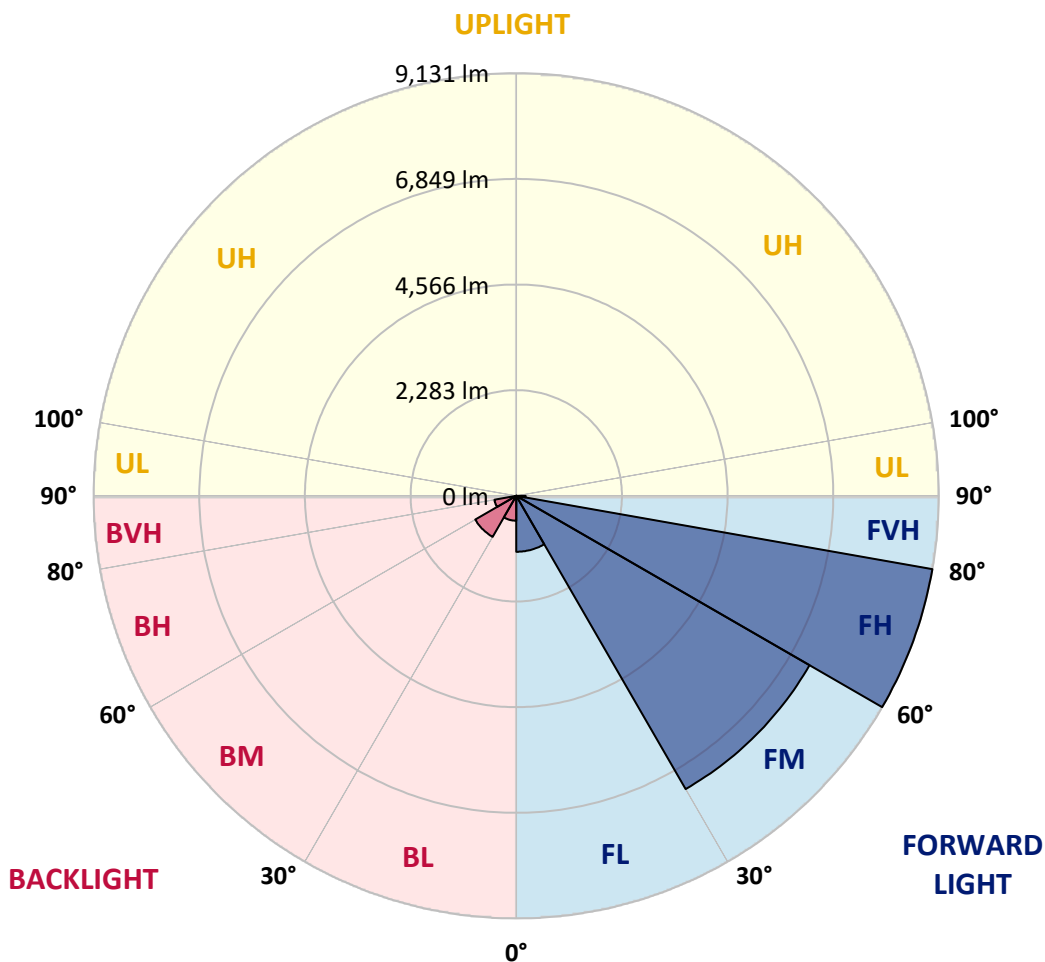


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1209.2	6.1			
FM (30°-60°)	7317.7	36.8			
FH (60°-80°)	9131.4	45.9			G4/12000
FVH (80°-90°)	199.5	1.0			G2/225
BL (0°-30°)	538.3	2.7	B2/1000		
BM (30°-60°)	1023.4	5.1	B2/2500		
BH (60°-80°)	478.9	2.4	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9
2.5°	2215.0	2212.2	2199.2	2193.6	2161.9	2143.2	2135.7	2112.4	2078.8	2045.2	2007.9
5°	2467.0	2466.0	2441.8	2418.4	2358.7	2302.7	2292.5	2238.4	2162.8	2091.9	2021.0
7.5°	2724.5	2712.3	2688.1	2643.3	2556.5	2467.0	2458.6	2382.1	2274.8	2172.1	2070.4
10°	2942.8	2935.3	2903.6	2835.5	2733.8	2632.1	2621.8	2527.6	2406.3	2280.3	2150.7
12.5°	3112.6	3107.0	3065.0	2980.1	2871.9	2766.5	2752.5	2668.5	2538.8	2397.9	2244.9
15°	3216.2	3213.4	3162.1	3071.6	2965.2	2873.8	2861.6	2787.9	2667.6	2520.1	2347.5
17.5°	3240.4	3241.4	3188.2	3096.8	3009.1	2943.7	2934.4	2878.4	2777.7	2631.2	2450.2
20°	3186.3	3197.5	3149.9	3070.6	3016.5	2982.0	2974.5	2940.9	2856.0	2717.9	2532.3
22.5°	3109.8	3115.4	3082.8	3029.6	3007.2	3013.7	3010.0	2991.3	2919.5	2792.6	2613.4
25°	3063.2	3063.2	3043.6	2998.8	3013.7	3053.8	3054.8	3051.0	2994.1	2884.0	2712.3
27.5°	3061.3	3055.7	3033.3	2999.7	3040.8	3102.4	3106.1	3131.3	3095.8	2995.1	2835.5
30°	3135.9	3129.4	3081.8	3038.0	3090.2	3156.5	3165.8	3220.9	3203.1	3115.4	2972.7
32.5°	3310.4	3287.1	3181.7	3109.8	3149.0	3228.3	3240.4	3328.2	3356.1	3263.8	3105.2
35°	3549.3	3475.6	3323.5	3246.0	3249.8	3332.8	3344.0	3472.8	3555.8	3400.0	3207.8
37.5°	3878.6	3842.3	3595.0	3387.9	3404.7	3530.6	3563.3	3703.2	3679.9	3474.6	3324.4
40°	4600.8	4543.9	4280.8	3785.3	3553.0	3691.1	3701.4	3776.0	3777.9	3643.5	3567.0
42.5°	5584.2	5560.9	5283.8	4506.6	3845.1	3798.4	3817.1	3943.0	4083.9	3999.9	3996.2
45°	6673.1	6661.0	6367.1	5463.9	4435.7	4150.2	4173.5	4342.4	4612.0	4630.7	4749.2
47.5°	7549.2	7543.6	7374.7	6532.2	5339.8	4746.4	4753.8	4933.0	5407.0	5641.2	5830.6
50°	8347.9	8375.0	8241.5	7688.2	6571.4	5680.3	5662.6	5782.0	6543.4	6926.9	7162.0
52.5°	9458.2	9496.5	9122.3	8766.8	7863.7	6839.2	6825.2	6950.2	7909.4	8196.8	8238.7
55°	10438.8	10373.5	10077.8	9975.1	9439.6	8270.5	8266.7	8376.8	9230.6	9352.8	9430.2
57.5°	10871.8	10846.6	10989.3	11224.5	11090.1	9962.1	9953.7	9869.7	10412.7	10425.8	10663.7
60°	11145.2	11175.9	11613.5	12338.5	12673.5	11782.4	11728.3	11216.1	11541.7	11512.8	11767.5
62.5°	10939.9	11000.5	11788.0	12996.3	13858.4	13371.4	13294.9	12449.5	12506.5	12406.6	12643.6
65°	9850.1	9944.3	11234.7	12872.2	14446.3	14613.3	14535.8	13538.4	13272.5	13108.3	12976.7
67.5°	7998.0	8054.0	9401.3	11792.7	14181.3	15354.1	15338.2	14492.9	13851.0	12989.8	11969.0
69°	6609.7	6664.7	7961.6	10656.2	13598.1	15512.7	15543.5	14798.9	13740.9	12269.5	10604.9
70°	5598.2	5657.0	6865.3	9682.2	12921.7	15439.0	15494.1	14770.0	13425.5	11435.3	9407.8
72.5°	2936.3	2986.7	4226.7	6670.3	10534.0	14176.6	14343.6	13521.6	11380.3	8305.0	5562.8
75°	922.8	951.7	1650.5	3486.8	7212.4	11022.9	11061.2	10606.8	8081.1	4568.2	2316.7
77.5°	351.8	343.4	549.6	1284.8	3646.3	6940.9	7175.1	6628.3	4240.7	1615.1	534.6
80°	189.4	190.3	285.5	531.8	1560.0	3567.0	3764.8	3212.5	1506.9	503.8	123.2
82.5°	82.1	85.8	160.5	281.8	716.6	1315.6	1414.5	1177.5	575.7	338.7	45.7
85°	17.7	19.6	77.4	153.0	292.0	369.5	387.2	381.6	366.7	263.1	17.7
87.5°	0.0	0.0	34.5	55.0	73.7	84.0	73.7	96.1	202.5	177.3	9.3
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°	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9	1993.9
2.5°	1995.8	1979.0	1950.1	1918.3	1895.9	1872.6	1853.9	1845.6	1836.2	1829.7	1838.1
5°	1992.0	1959.4	1903.4	1849.3	1810.1	1778.4	1752.2	1742.0	1731.7	1724.3	1723.3
7.5°	2024.7	1979.0	1893.1	1813.8	1753.2	1710.3	1674.8	1659.9	1647.7	1642.1	1637.5
10°	2087.2	2028.4	1913.7	1810.1	1731.7	1658.9	1582.4	1523.7	1485.4	1467.7	1461.1
12.5°	2168.4	2094.7	1952.9	1829.7	1715.9	1575.9	1413.6	1273.6	1183.1	1153.2	1135.5
15°	2263.6	2172.1	2004.2	1854.9	1658.0	1402.4	1127.1	944.2	860.3	843.5	824.8
17.5°	2355.0	2254.2	2065.7	1859.5	1531.1	1120.6	825.7	701.6	669.0	680.2	683.0
20°	2435.2	2335.4	2126.4	1818.5	1300.7	840.7	639.1	608.3	620.5	641.9	645.7
22.5°	2516.4	2413.8	2182.4	1710.3	1005.8	638.2	575.7	583.1	595.3	616.7	620.5
25°	2615.3	2508.9	2234.6	1511.5	754.8	543.0	546.8	558.0	570.1	589.7	591.5
27.5°	2729.1	2629.3	2269.2	1253.1	559.8	499.2	511.3	528.1	540.2	558.9	562.6
30°	2880.3	2787.9	2280.3	985.3	469.3	460.0	465.6	486.1	503.8	520.6	523.4
32.5°	3022.1	2944.7	2243.0	743.6	434.8	423.6	423.6	435.7	456.3	472.1	475.9
35°	3152.7	3102.4	2123.6	544.0	408.7	390.0	380.7	380.7	393.7	406.8	410.5
37.5°	3325.4	3323.5	1930.5	433.9	383.5	362.0	342.4	327.5	322.8	325.6	327.5
40°	3621.1	3623.9	1678.5	389.1	362.0	333.1	303.2	276.2	251.0	242.6	241.7
42.5°	4083.0	4041.0	1414.5	367.6	343.4	303.2	258.5	222.1	182.9	170.7	169.8
45°	4816.4	4567.2	1134.6	348.0	323.8	269.6	213.7	164.2	132.5	123.2	123.2
47.5°	5884.7	5258.6	878.9	326.6	297.6	231.4	161.4	118.5	97.0	92.4	93.3
50°	6989.4	5936.0	673.7	299.5	265.9	191.3	119.4	85.8	73.7	73.7	74.6
52.5°	7969.1	6432.4	525.3	270.6	226.7	150.2	90.5	67.2	61.6	60.6	61.6
55°	8886.3	6752.4	402.1	237.0	180.1	112.0	69.0	55.0	51.3	49.5	48.5
57.5°	9770.8	6911.0	301.4	191.3	130.6	81.2	55.0	46.7	42.9	40.1	39.2
60°	10359.5	6782.3	207.1	140.9	90.5	58.8	45.7	40.1	35.5	32.7	31.7
62.5°	10691.7	6430.5	133.4	101.7	64.4	43.9	36.4	33.6	27.1	24.3	24.3
65°	10557.3	5850.2	93.3	72.8	46.7	32.7	27.1	27.1	19.6	15.9	14.9
67.5°	9355.6	4942.3	70.9	54.1	33.6	24.3	20.5	23.3	12.1	7.5	7.5
69°	8049.3	4096.0	60.6	44.8	28.0	19.6	17.7	21.5	8.4	5.6	4.7
70°	6995.9	3533.4	55.0	39.2	23.3	16.8	15.9	20.5	8.4	4.7	3.7
72.5°	4185.6	1970.6	42.0	28.0	14.9	13.1	13.1	23.3	8.4	4.7	3.7
75°	1691.6	694.2	30.8	19.6	11.2	11.2	15.9	29.9	7.5	3.7	2.8
77.5°	383.5	152.1	17.7	12.1	7.5	11.2	18.7	23.3	4.7	1.9	0.0
80°	93.3	37.3	11.2	7.5	4.7	8.4	14.0	13.1	0.9	0.0	0.0
82.5°	30.8	13.1	4.7	3.7	0.9	2.8	6.5	3.7	0.0	0.0	0.0
85°	13.1	7.5	1.9	0.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0
87.5°	8.4	2.8	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)