

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: P322991

Luminaire Tested: **GLEON-SA7A-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322991
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-SA7A-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 17562 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

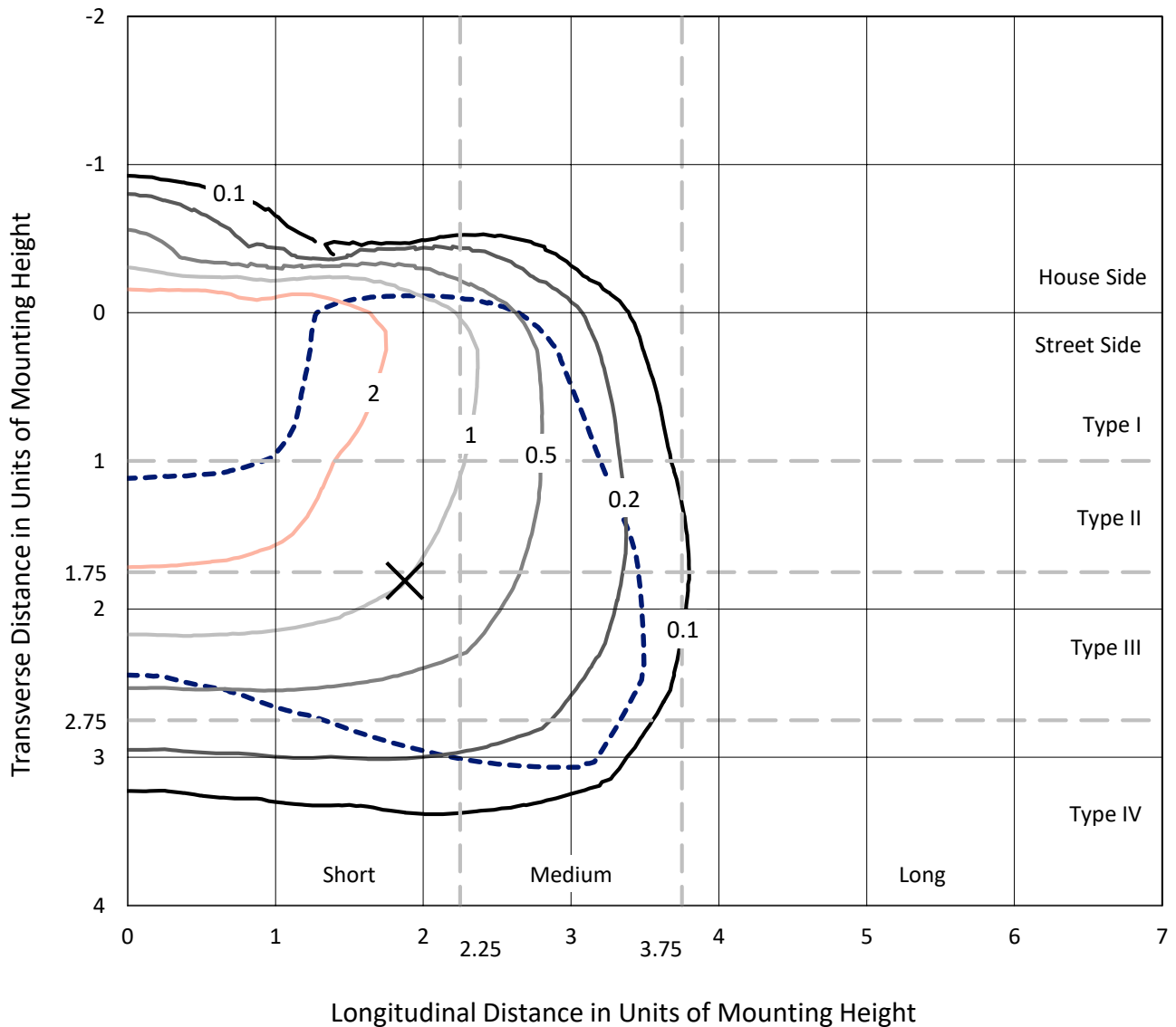
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

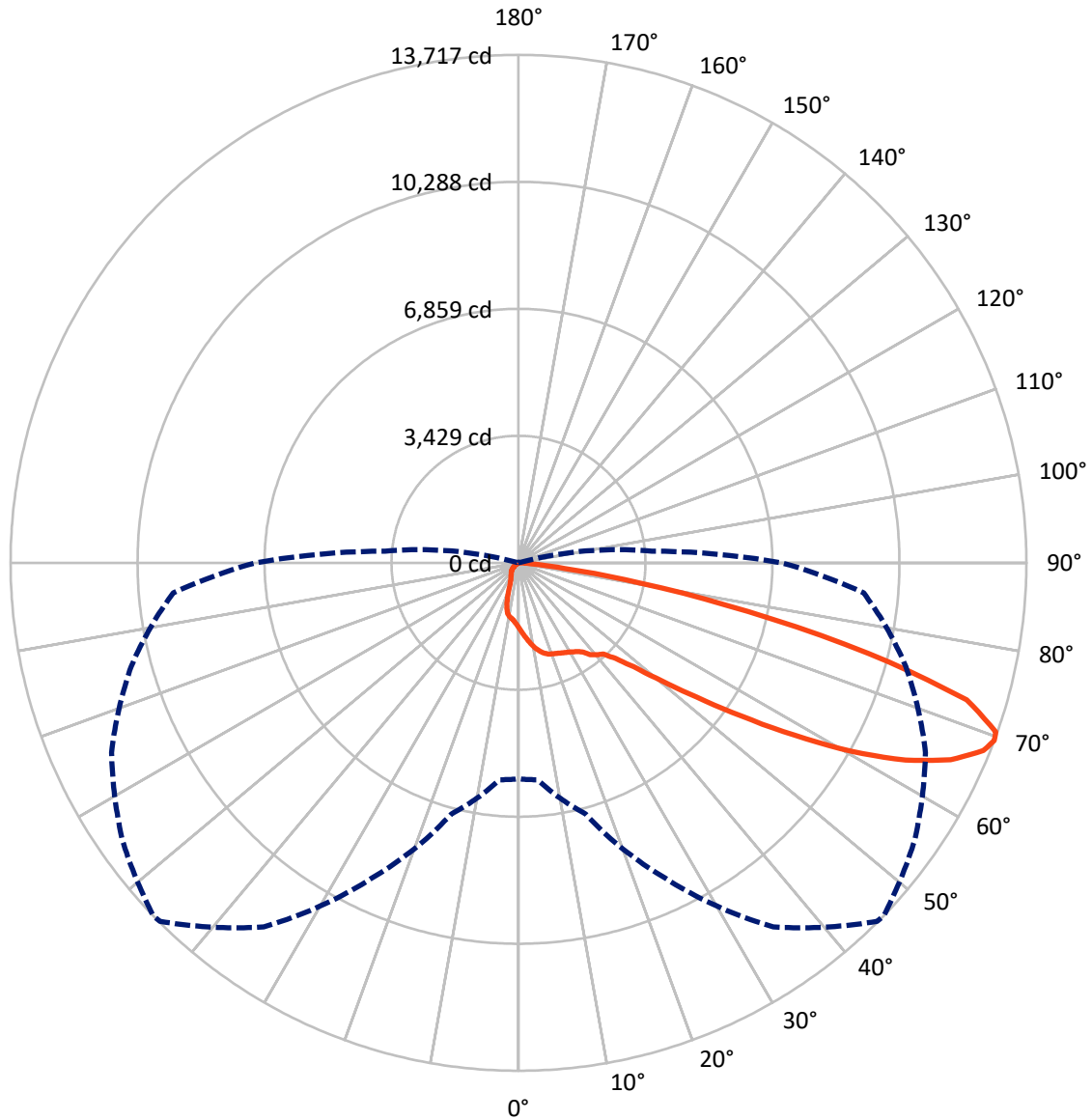
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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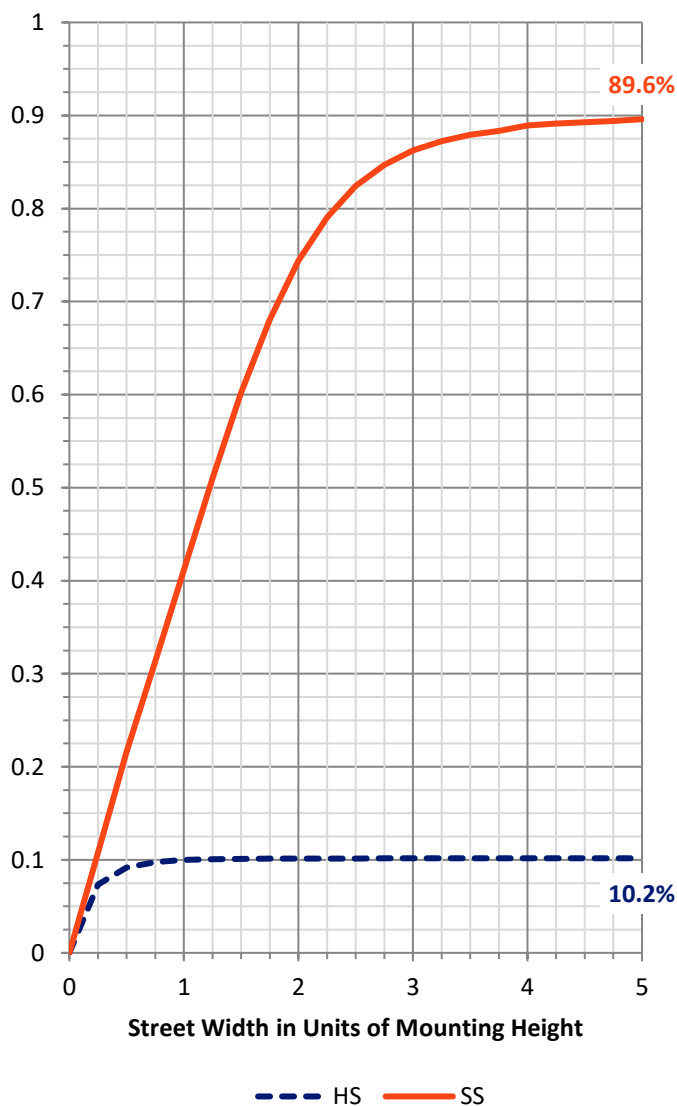
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1802.3	0.0	1802.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	15759.7	0.0	15759.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	17562.0	0.0	17562.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	1.0
10°-20°	531.3	3.0
20°-30°	835.6	4.8
30°-40°	1198.3	6.8
40°-50°	2071.1	11.8
50°-60°	4091.7	23.3
60°-70°	5718.5	32.6
70°-80°	2762.7	15.7
80°-90°	177.6	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°	17562.0	100.0
0°-180°	17562.0	100.0

Coefficient of Utilization



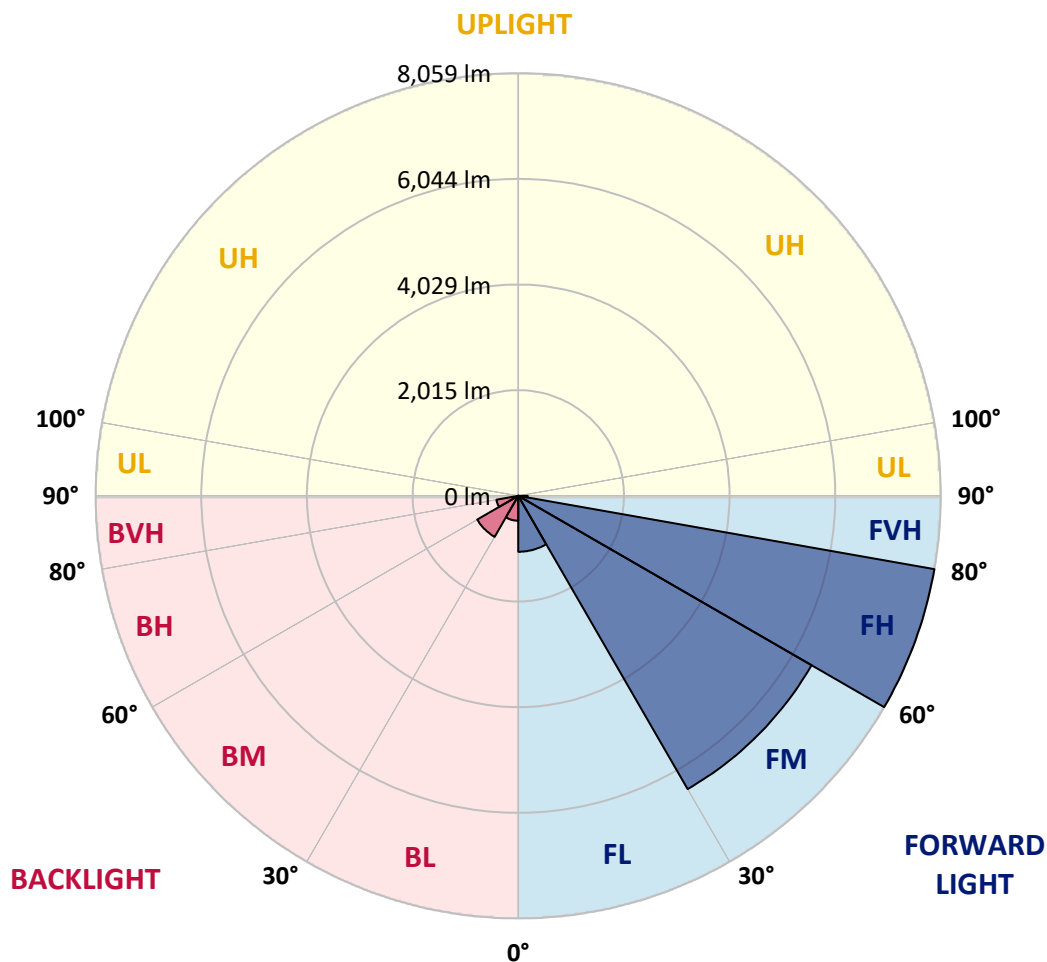
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1067.1	6.1			
FM (30°-60°)	6457.9	36.8			
FH (60°-80°)	8058.5	45.9			G4/12000
FVH (80°-90°)	176.1	1.0			G2/225
BL (0°-30°)	475.0	2.7	B1/500		
BM (30°-60°)	903.2	5.1	B1/1000		
BH (60°-80°)	422.6	2.4	B1/500		G1/500
BVH (80°-90°)	1.5	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1759.6	1759.6	1759.6	1759.6	1759.6	1759.6	1759.6	1759.6	1759.6	1759.6	1759.6
2.5°	1954.8	1952.3	1940.8	1935.9	1907.9	1891.4	1884.8	1864.2	1834.6	1804.9	1772.0
5°	2177.1	2176.3	2154.9	2134.3	2081.6	2032.2	2023.1	1975.4	1908.7	1846.1	1783.5
7.5°	2404.4	2393.7	2372.3	2332.7	2256.2	2177.1	2169.7	2102.2	2007.5	1916.9	1827.2
10°	2597.1	2590.5	2562.5	2502.4	2412.6	2322.9	2313.8	2230.6	2123.6	2012.4	1898.0
12.5°	2746.9	2742.0	2704.9	2630.0	2534.5	2441.4	2429.1	2355.0	2240.5	2116.2	1981.1
15°	2838.3	2835.9	2790.6	2710.7	2616.8	2536.1	2525.4	2460.4	2354.2	2224.1	2071.7
17.5°	2859.7	2860.6	2813.6	2732.9	2655.5	2597.9	2589.7	2540.2	2451.3	2322.0	2162.3
20°	2812.0	2821.9	2779.9	2709.9	2662.1	2631.6	2625.1	2595.4	2520.5	2398.6	2234.8
22.5°	2744.5	2749.4	2720.6	2673.6	2653.9	2659.6	2656.4	2639.9	2576.5	2464.5	2306.4
25°	2703.3	2703.3	2686.0	2646.5	2659.6	2695.1	2695.9	2692.6	2642.4	2545.2	2393.7
27.5°	2701.6	2696.7	2676.9	2647.3	2683.5	2737.9	2741.2	2763.4	2732.1	2643.2	2502.4
30°	2767.5	2761.7	2719.8	2681.1	2727.2	2785.6	2793.9	2842.4	2826.8	2749.4	2623.4
32.5°	2921.5	2900.9	2807.9	2744.5	2779.0	2849.0	2859.7	2937.1	2961.8	2880.3	2740.3
35°	3132.3	3067.2	2933.0	2864.7	2868.0	2941.3	2951.1	3064.8	3138.1	3000.5	2830.9
37.5°	3423.0	3390.8	3172.6	2989.8	3004.7	3115.8	3144.6	3268.2	3247.6	3066.4	2933.8
40°	4060.3	4010.1	3777.8	3340.6	3135.6	3257.4	3266.5	3332.4	3334.0	3215.5	3147.9
42.5°	4928.2	4907.6	4663.0	3977.1	3393.3	3352.1	3368.6	3479.8	3604.1	3530.0	3526.7
45°	5889.1	5878.4	5619.0	4821.9	3914.5	3662.6	3683.2	3832.2	4070.2	4086.6	4191.2
47.5°	6662.3	6657.3	6508.3	5764.8	4712.4	4188.7	4195.3	4353.4	4771.7	4978.4	5145.5
50°	7367.1	7391.0	7273.3	6785.0	5799.3	5013.0	4997.3	5102.7	5774.6	6113.1	6320.6
52.5°	8347.0	8380.8	8050.6	7736.8	6939.8	6035.7	6023.3	6133.6	6980.1	7233.7	7270.8
55°	9212.4	9154.8	8893.8	8803.2	8330.5	7298.8	7295.5	7392.7	8146.1	8254.0	8322.3
57.5°	9594.5	9572.2	9698.2	9905.7	9787.2	8791.6	8784.2	8710.1	9189.4	9200.9	9410.9
60°	9835.7	9862.9	10249.1	10888.9	11184.5	10398.1	10350.4	9898.3	10185.7	10160.2	10385.0
62.5°	9654.6	9708.1	10403.1	11469.4	12230.2	11800.4	11732.9	10986.9	11037.1	10949.0	11158.2
65°	8692.8	8776.0	9914.8	11359.9	12749.0	12896.4	12828.0	11947.8	11713.1	11568.2	11452.1
67.5°	7058.3	7107.8	8296.8	10407.2	12515.1	13550.2	13536.2	12790.2	12223.7	11463.6	10562.8
69°	5833.1	5881.7	7026.2	9404.3	12000.5	13690.2	13717.3	13060.3	12126.5	10828.0	9359.0
70°	4940.5	4992.4	6058.7	8544.6	11403.5	13625.1	13673.7	13034.7	11848.2	10091.8	8302.5
72.5°	2591.3	2635.8	3730.1	5886.6	9296.4	12511.0	12658.4	11933.0	10043.2	7329.3	4909.2
75°	814.4	839.9	1456.6	3077.1	6365.0	9727.9	9761.6	9360.6	7131.6	4031.5	2044.5
77.5°	310.4	303.0	485.0	1133.8	3217.9	6125.4	6332.1	5849.6	3742.4	1425.3	471.8
80°	167.2	168.0	252.0	469.3	1376.8	3147.9	3322.5	2835.0	1329.8	444.6	108.7
82.5°	72.5	75.8	141.6	248.7	632.4	1161.0	1248.3	1039.2	508.0	298.9	40.3
85°	15.6	17.3	68.3	135.0	257.7	326.1	341.7	336.8	323.6	232.2	15.6
87.5°	0.0	0.0	30.5	48.6	65.1	74.1	65.1	84.8	178.7	156.4	8.2
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°	1759.6	1759.6	1759.6	1759.6	1759.6	1759.6	1759.6	1759.6	1759.6	1759.6	1759.6
2.5°	1761.3	1746.5	1720.9	1692.9	1673.2	1652.6	1636.1	1628.7	1620.5	1614.7	1622.1
5°	1758.0	1729.2	1679.8	1632.0	1597.4	1569.4	1546.4	1537.3	1528.3	1521.7	1520.9
7.5°	1786.8	1746.5	1670.7	1600.7	1547.2	1509.3	1478.0	1464.9	1454.2	1449.2	1445.1
10°	1842.0	1790.1	1688.8	1597.4	1528.3	1464.0	1396.5	1344.6	1310.9	1295.2	1289.5
12.5°	1913.6	1848.6	1723.4	1614.7	1514.3	1390.8	1247.5	1124.0	1044.1	1017.7	1002.1
15°	1997.6	1916.9	1768.7	1637.0	1463.2	1237.6	994.7	833.3	759.2	744.4	727.9
17.5°	2078.3	1989.4	1823.1	1641.1	1351.2	988.9	728.7	619.2	590.4	600.3	602.7
20°	2149.1	2061.0	1876.6	1604.8	1147.8	741.9	564.0	536.9	547.6	566.5	569.8
22.5°	2220.8	2130.2	1926.0	1509.3	887.6	563.2	508.0	514.6	525.3	544.3	547.6
25°	2308.0	2214.2	1972.1	1333.9	666.1	479.2	482.5	492.4	503.1	520.4	522.0
27.5°	2408.5	2320.4	2002.6	1105.9	494.1	440.5	451.2	466.1	476.8	493.2	496.5
30°	2541.9	2460.4	2012.4	869.5	414.2	405.9	410.9	429.0	444.6	459.5	461.9
32.5°	2667.1	2598.7	1979.5	656.3	383.7	373.8	373.8	384.5	402.7	416.7	419.9
35°	2782.3	2737.9	1874.1	480.1	360.7	344.2	336.0	336.0	347.5	359.0	362.3
37.5°	2934.7	2933.0	1703.7	382.9	338.4	319.5	302.2	289.0	284.9	287.4	289.0
40°	3195.7	3198.2	1481.3	343.4	319.5	294.0	267.6	243.7	221.5	214.1	213.3
42.5°	3603.3	3566.2	1248.3	324.4	303.0	267.6	228.1	196.0	161.4	150.7	149.9
45°	4250.5	4030.6	1001.3	307.1	285.7	238.0	188.6	144.9	116.9	108.7	108.7
47.5°	5193.3	4640.8	775.7	288.2	262.7	204.2	142.5	104.6	85.6	81.5	82.3
50°	6168.2	5238.6	594.5	264.3	234.7	168.8	105.4	75.8	65.1	65.1	65.9
52.5°	7032.8	5676.7	463.6	238.8	200.1	132.6	79.9	59.3	54.3	53.5	54.3
55°	7842.2	5959.1	354.9	209.1	158.9	98.8	60.9	48.6	45.3	43.6	42.8
57.5°	8622.8	6099.1	266.0	168.8	115.3	71.6	48.6	41.2	37.9	35.4	34.6
60°	9142.4	5985.4	182.8	124.3	79.9	51.9	40.3	35.4	31.3	28.8	28.0
62.5°	9435.6	5675.0	117.7	89.8	56.8	38.7	32.1	29.6	23.9	21.4	21.4
65°	9317.0	5162.8	82.3	64.2	41.2	28.8	23.9	23.9	17.3	14.0	13.2
67.5°	8256.4	4361.7	62.6	47.8	29.6	21.4	18.1	20.6	10.7	6.6	6.6
69°	7103.6	3614.8	53.5	39.5	24.7	17.3	15.6	18.9	7.4	4.9	4.1
70°	6174.0	3118.3	48.6	34.6	20.6	14.8	14.0	18.1	7.4	4.1	3.3
72.5°	3693.9	1739.1	37.1	24.7	13.2	11.5	11.5	20.6	7.4	4.1	3.3
75°	1492.9	612.6	27.2	17.3	9.9	9.9	14.0	26.3	6.6	3.3	2.5
77.5°	338.4	134.2	15.6	10.7	6.6	9.9	16.5	20.6	4.1	1.6	0.0
80°	82.3	32.9	9.9	6.6	4.1	7.4	12.4	11.5	0.8	0.0	0.0
82.5°	27.2	11.5	4.1	3.3	0.8	2.5	5.8	3.3	0.0	0.0	0.0
85°	11.5	6.6	1.6	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0
87.5°	7.4	2.5	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)