

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: P383571

Luminaire Tested: **GLEON-SA8C-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8C-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52816.9 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

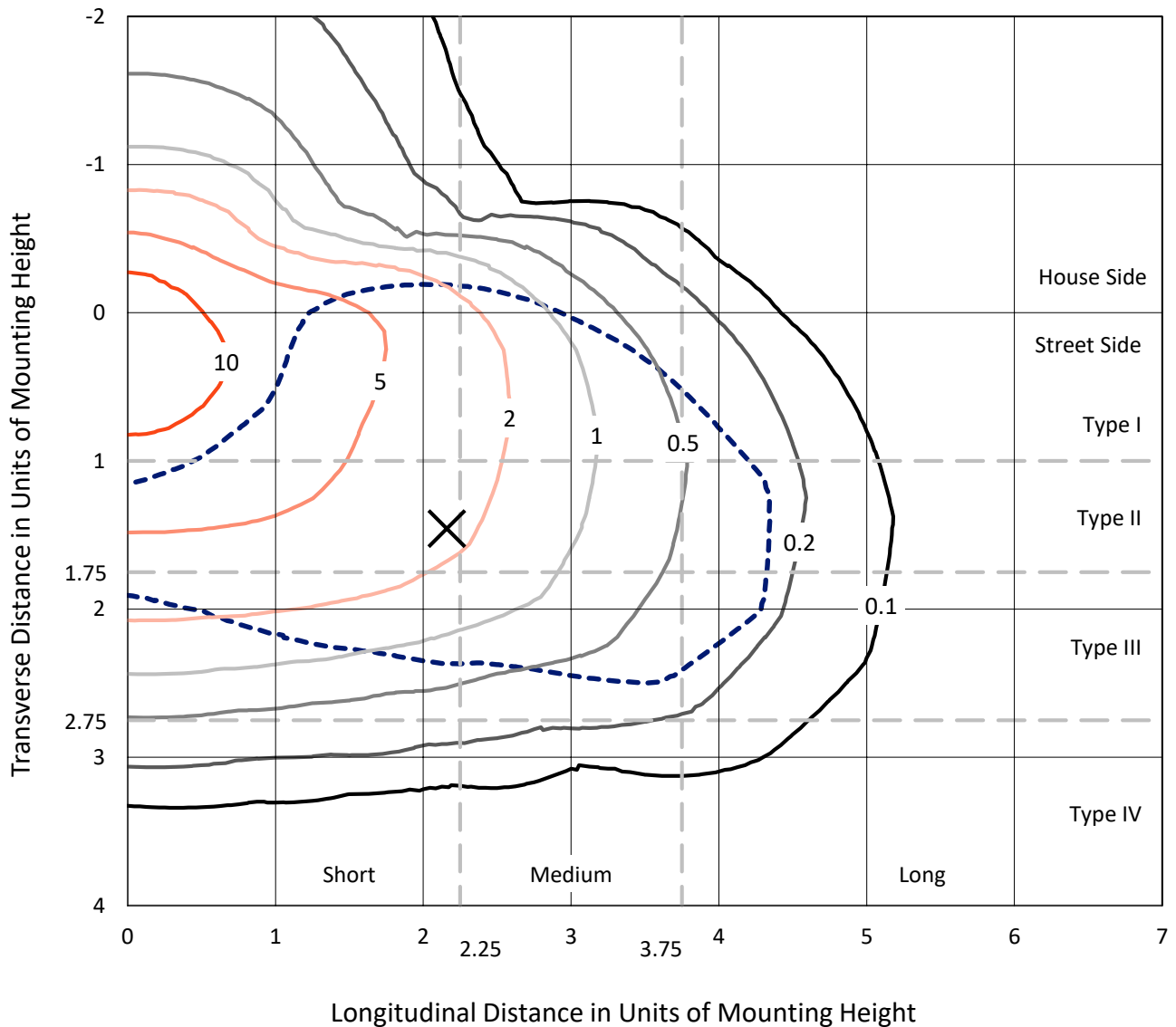
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

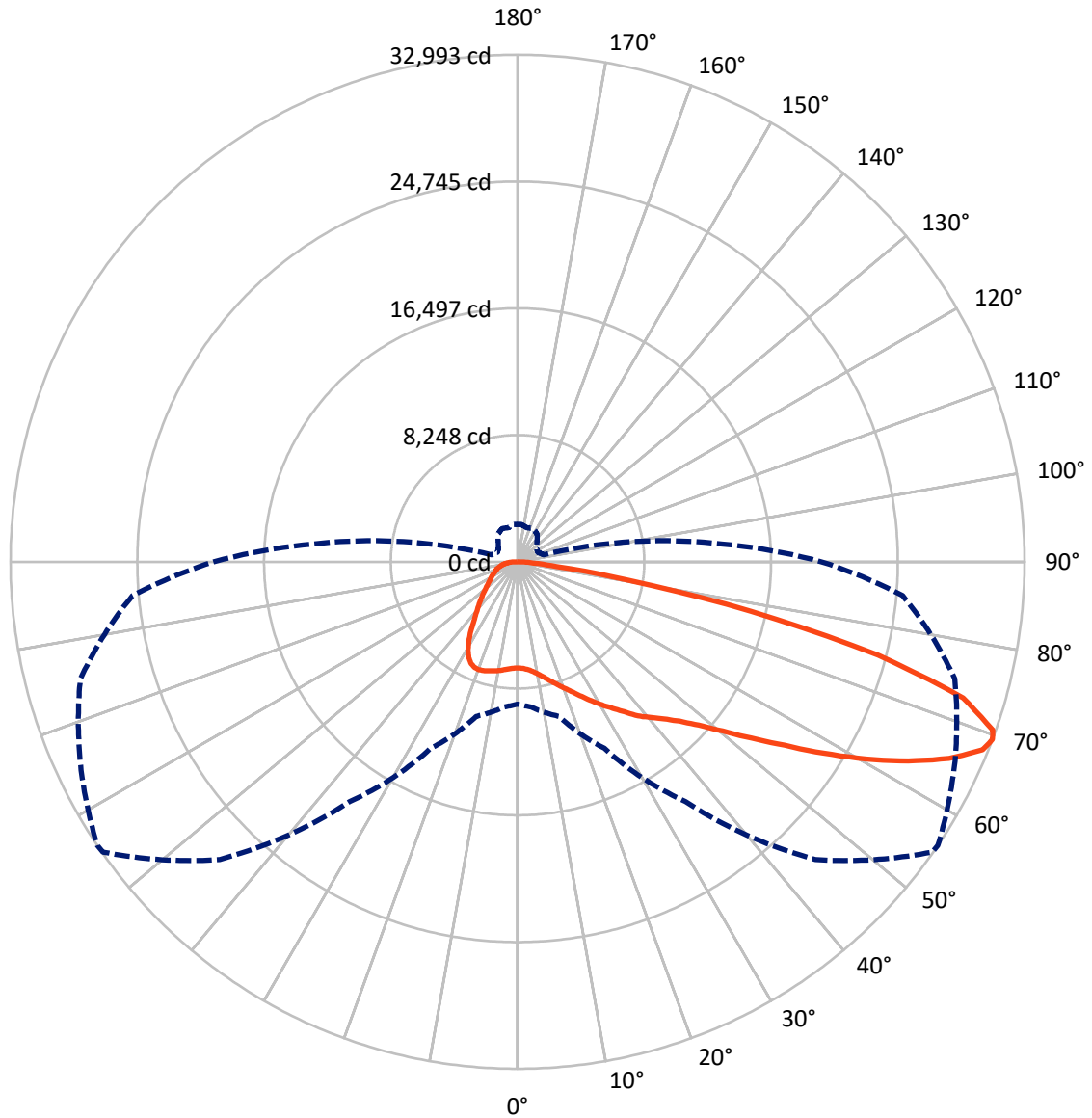
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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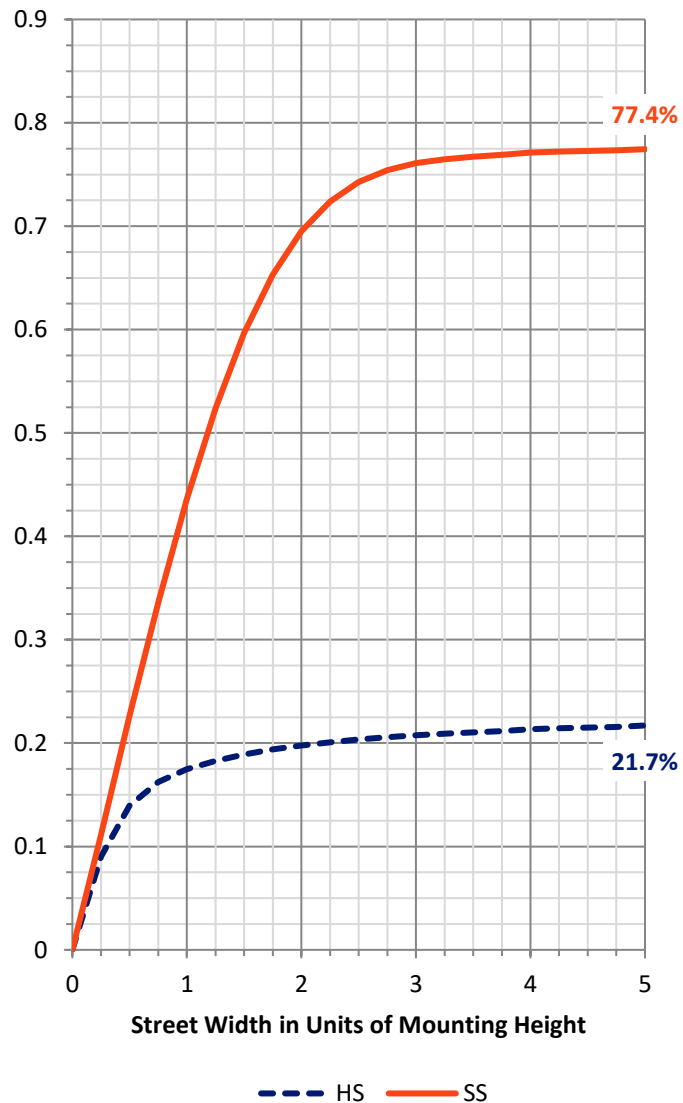
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11762.2	0.0	11762.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	41054.7	0.0	41054.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	52816.9	0.0	52816.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.2	1.3
10°-20°	2180.8	4.1
20°-30°	3806.8	7.2
30°-40°	5468.3	10.4
40°-50°	7567.8	14.3
50°-60°	11087.9	21.0
60°-70°	13518.3	25.6
70°-80°	7473.8	14.2
80°-90°	1035.1	2.0
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°	52816.9	100.0
0°-180°	52816.9	100.0

Coefficient of Utilization

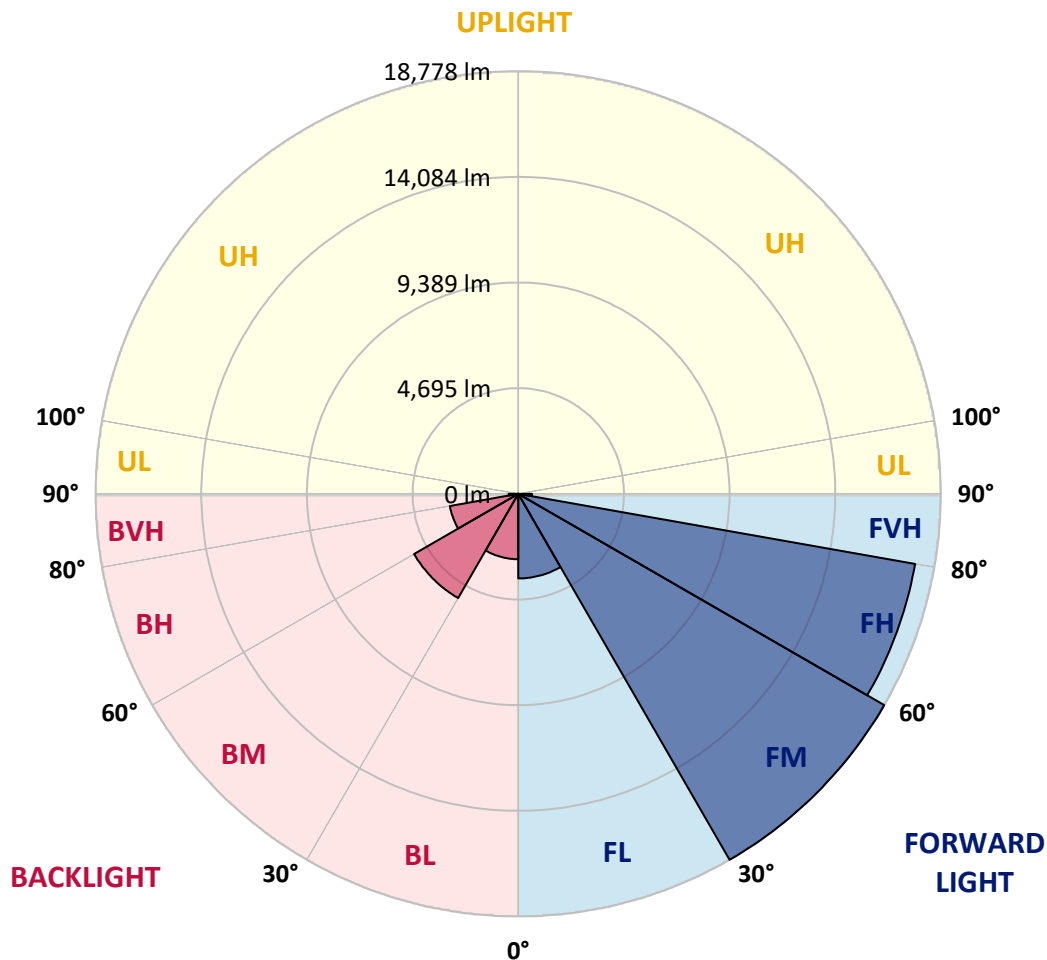


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3759.0	7.1			
FM (30°-60°)	18778.4	35.6			
FH (60°-80°)	17907.6	33.9			G5
FVH (80°-90°)	609.7	1.2			G4/750
BL (0°-30°)	2906.7	5.5	B4/5000		
BM (30°-60°)	5345.7	10.1	B4/8500		
BH (60°-80°)	3084.4	5.8	B4/5000		G4/5000
BVH (80°-90°)	425.4	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6905.0	6905.0	6905.0	6905.0	6905.0	6905.0	6905.0	6905.0	6905.0	6905.0	6905.0
2.5°	6948.7	6956.0	6950.5	6965.1	6948.7	6959.6	6950.5	6950.5	6945.1	6928.7	6910.5
5°	7057.9	7072.4	7063.3	7077.9	7057.9	7061.5	7045.1	7045.1	7028.7	6994.2	6957.8
7.5°	7228.9	7245.3	7237.9	7252.6	7225.3	7225.3	7203.4	7201.6	7168.8	7112.5	7070.6
10°	7432.6	7454.5	7447.3	7469.1	7447.3	7454.5	7432.6	7432.6	7389.0	7308.9	7256.2
12.5°	7729.2	7756.5	7736.5	7734.7	7725.6	7740.1	7722.0	7718.3	7678.3	7569.1	7496.3
15°	8125.9	8155.0	8113.1	8109.5	8058.5	8053.1	8053.1	8047.6	8022.2	7891.1	7771.1
17.5°	8582.6	8591.7	8555.3	8497.1	8431.5	8389.7	8384.3	8398.8	8398.8	8246.0	8054.9
20°	9030.2	9046.5	9017.5	8952.0	8868.2	8806.4	8762.7	8791.9	8790.0	8608.1	8337.0
22.5°	9517.8	9556.0	9512.4	9428.7	9330.4	9261.3	9184.9	9210.3	9212.2	8988.3	8613.6
25°	10149.2	10114.7	10087.4	9969.0	9828.9	9758.0	9687.1	9712.5	9705.2	9397.7	8899.2
27.5°	10707.8	10715.0	10678.7	10553.1	10391.1	10234.7	10231.1	10247.4	10220.1	9823.4	9168.5
30°	11357.3	11361.0	11310.0	11197.2	11020.8	10818.8	10771.5	10798.8	10740.6	10227.5	9452.3
32.5°	12003.3	12021.4	11965.1	11828.6	11686.6	11441.0	11346.4	11364.6	11219.1	10640.4	9745.3
35°	12569.1	12594.6	12576.4	12485.4	12330.8	12119.7	12006.9	11996.0	11815.8	11146.2	10132.8
37.5°	13145.9	13169.6	13149.5	13073.2	13011.3	12787.4	12727.5	12727.5	12414.5	11663.0	10625.9
40°	13739.0	13775.4	13751.8	13646.2	13593.5	13491.6	13347.9	13313.3	12974.9	12283.5	11430.1
42.5°	14290.4	14337.6	14432.3	14370.4	14263.1	14277.6	13988.3	13970.1	13722.7	13200.5	12440.0
45°	15072.7	15141.9	15302.0	15254.7	15232.9	15152.8	14808.9	14792.6	14698.0	14434.1	13693.6
47.5°	15926.1	16020.8	16310.0	16319.1	16553.9	16402.8	15935.2	15878.8	15900.7	15911.6	15223.8
50°	16712.2	16815.8	17290.7	17514.5	18067.6	18100.4	17352.6	17301.6	17387.1	17638.3	17006.9
52.5°	17339.8	17470.9	18064.0	18755.4	19703.3	19972.7	19097.5	19059.3	19123.0	19556.0	19022.9
55°	17800.2	17942.1	18588.0	19847.2	21360.9	21835.8	21106.3	21069.8	21109.9	21661.2	21215.4
57.5°	17907.5	17942.1	18879.1	20582.2	22760.1	23901.0	23564.3	23491.6	23295.1	23775.4	23635.3
60°	17403.5	17541.8	18639.0	20840.6	23842.8	25937.0	26133.5	26042.5	25491.2	25884.3	25771.5
62.5°	16381.0	16628.4	17742.0	20447.6	24266.7	27600.1	28653.6	28544.4	27594.6	27849.3	27307.1
65°	14710.7	14816.2	15986.2	19092.1	23728.1	28664.5	30900.6	30846.1	29650.6	29252.2	27590.9
67.5°	11723.1	11921.4	12914.8	16259.0	21524.7	28538.9	32638.3	32632.8	30993.4	29772.5	26584.8
69°	9261.3	9466.9	10413.0	13393.3	19046.5	27390.8	32929.4	32993.1	31371.8	29455.9	25147.3
70°	7383.5	7621.9	8271.5	11280.9	16846.8	25877.0	32687.4	32802.0	31299.1	28933.8	23820.9
72.5°	3142.3	3335.1	3797.3	5815.1	10267.4	19323.1	29887.1	30320.2	29612.4	26481.0	19687.0
75°	1371.9	1432.0	1641.2	2370.8	4557.9	10516.7	23413.3	24213.9	25320.2	22383.5	14665.2
77.5°	1004.4	1029.8	1144.5	1391.9	2045.1	3971.9	15056.4	15522.2	18260.6	16288.2	8995.6
80°	776.9	795.2	884.3	1022.6	1335.6	1606.6	6866.8	7267.1	10267.4	8366.0	3746.3
82.5°	618.6	631.4	693.3	753.2	922.5	973.5	2279.9	2529.2	3790.0	2310.8	991.6
85°	575.0	589.5	611.4	549.5	591.3	571.3	986.1	1031.7	1144.5	907.9	414.8
87.5°	260.2	307.5	605.9	427.6	314.8	251.1	403.9	422.1	474.9	476.7	183.8
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°	6905.0	6905.0	6905.0	6905.0	6905.0	6905.0	6905.0	6905.0	6905.0	6905.0	6905.0
2.5°	6921.4	6915.9	6925.0	6903.2	6930.5	6928.7	6919.5	6923.2	6941.4	6939.6	6941.4
5°	6963.2	6959.6	6970.5	6954.1	6986.9	6997.8	6999.6	7016.0	7036.0	7041.5	7041.5
7.5°	7068.8	7068.8	7074.3	7052.4	7074.3	7072.4	7063.3	7079.7	7099.7	7101.6	7099.7
10°	7250.7	7252.6	7243.4	7187.1	7168.8	7119.7	7074.3	7076.0	7101.6	7121.5	7127.0
12.5°	7480.0	7472.7	7432.6	7329.0	7252.6	7152.4	7105.2	7103.3	7128.9	7145.2	7150.7
15°	7742.0	7722.0	7618.3	7449.0	7314.4	7216.1	7139.8	7121.5	7107.0	7088.8	7090.6
17.5°	7989.4	7944.0	7771.1	7536.4	7394.4	7263.5	7116.1	6997.8	6915.9	6868.6	6854.0
20°	8240.6	8151.4	7902.1	7618.3	7438.1	7199.7	6915.9	6675.7	6526.5	6457.4	6444.6
22.5°	8469.8	8326.1	8024.0	7703.8	7403.6	6985.1	6539.3	6189.9	5982.5	5889.7	5897.0
25°	8693.6	8493.5	8151.4	7763.8	7228.9	6606.6	6015.3	5585.8	5345.7	5242.0	5238.4
27.5°	8890.1	8662.6	8289.7	7714.7	6903.2	6068.0	5394.9	4976.3	4776.2	4687.1	4672.5
30°	9115.8	8875.5	8473.5	7527.3	6426.5	5445.7	4788.9	4494.2	4352.3	4263.1	4246.7
32.5°	9390.5	9164.8	8624.5	7187.1	5817.0	4796.2	4315.9	4110.3	3981.1	3881.0	3862.8
35°	9790.8	9547.0	8662.6	6699.4	5147.4	4283.1	3968.3	3757.3	3582.6	3453.4	3440.7
37.5°	10292.9	10025.5	8575.4	6068.0	4497.8	3950.1	3679.1	3418.9	3191.4	3009.5	2980.3
40°	11017.1	10613.1	8333.3	5340.3	4019.3	3693.6	3397.0	3100.5	2818.4	2605.5	2563.7
42.5°	11886.8	11302.7	7962.1	4616.1	3668.2	3433.4	3116.8	2749.3	2480.0	2329.0	2307.2
45°	12993.0	12019.7	7447.3	3982.9	3322.5	3173.2	2814.8	2476.3	2308.9	2198.0	2179.7
47.5°	14255.8	12823.9	6906.9	3468.0	3029.5	2929.4	2572.7	2354.4	2221.6	2134.3	2117.9
50°	15807.8	13731.8	6333.7	3045.9	2734.7	2636.5	2458.2	2287.1	2181.6	2114.2	2097.8
52.5°	17558.2	14756.2	5920.6	2712.9	2490.9	2420.0	2398.1	2250.7	2165.2	2114.2	2097.8
55°	19443.2	15798.8	5474.9	2432.6	2279.9	2299.9	2358.1	2254.3	2196.1	2134.3	2110.6
57.5°	21330.0	16875.9	4978.2	2196.1	2112.5	2210.7	2330.8	2261.6	2212.5	2152.4	2130.6
60°	22822.0	17558.2	4208.5	1997.8	1979.6	2112.5	2265.2	2207.0	2143.4	2145.2	2141.5
62.5°	23518.9	17521.9	3358.8	1821.4	1846.8	1979.6	2159.8	2121.5	2068.8	2139.8	2145.2
65°	23127.7	16648.4	2614.7	1661.2	1704.9	1841.3	2050.6	2079.7	2097.8	2234.3	2252.6
67.5°	21486.5	14949.0	2025.1	1521.1	1575.7	1746.7	2061.5	2265.2	2288.9	2432.6	2430.9
69°	19788.9	13355.1	1759.4	1448.4	1512.0	1770.4	2203.4	2383.6	2294.4	2447.3	2425.4
70°	18366.0	12094.2	1617.5	1399.2	1482.9	1812.2	2298.0	2381.7	2267.1	2398.1	2361.8
72.5°	14144.8	8700.8	1371.9	1308.3	1384.7	1734.0	2325.3	2329.0	2203.4	2228.9	2167.1
75°	9701.6	5498.6	1197.2	1184.5	1235.4	1563.0	2237.9	2225.3	2037.9	2001.4	1950.5
77.5°	5349.3	2793.0	1017.1	1066.2	1100.8	1384.7	2034.2	2016.1	1861.3	1784.9	1766.8
80°	2063.3	1222.7	858.8	947.9	969.8	1199.1	1783.1	1766.8	1637.6	1539.3	1512.0
82.5°	778.8	640.4	709.6	820.6	813.3	989.8	1510.2	1501.1	1375.5	1231.8	1188.1
85°	360.2	383.9	562.2	676.9	624.0	733.2	1208.1	1224.5	1071.7	900.6	900.6
87.5°	152.9	214.7	398.5	511.3	420.3	494.9	886.1	846.0	776.9	538.5	505.8
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)