

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: P383457

Luminaire Tested: **GLEON-SA7C-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48554.1 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

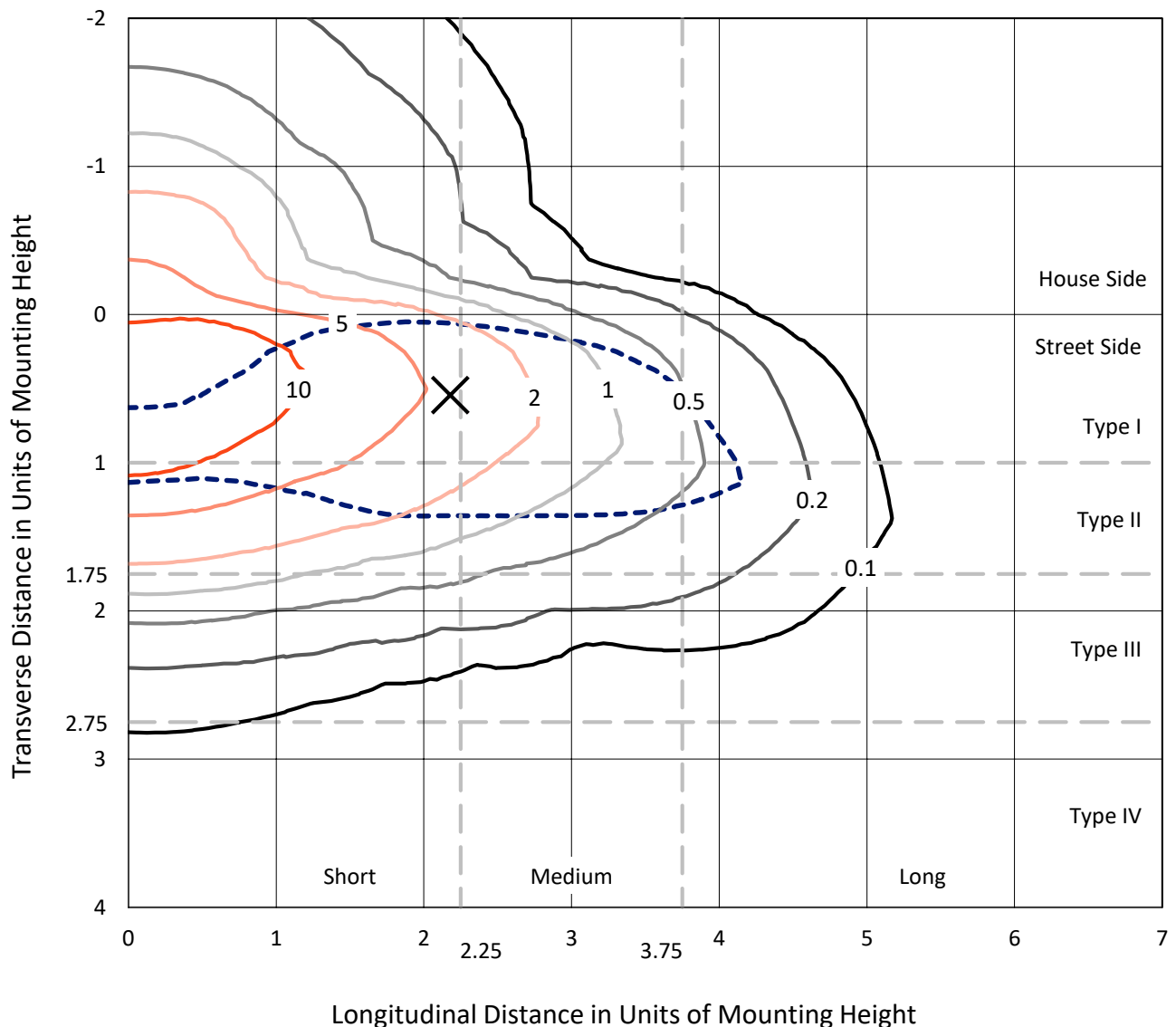
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

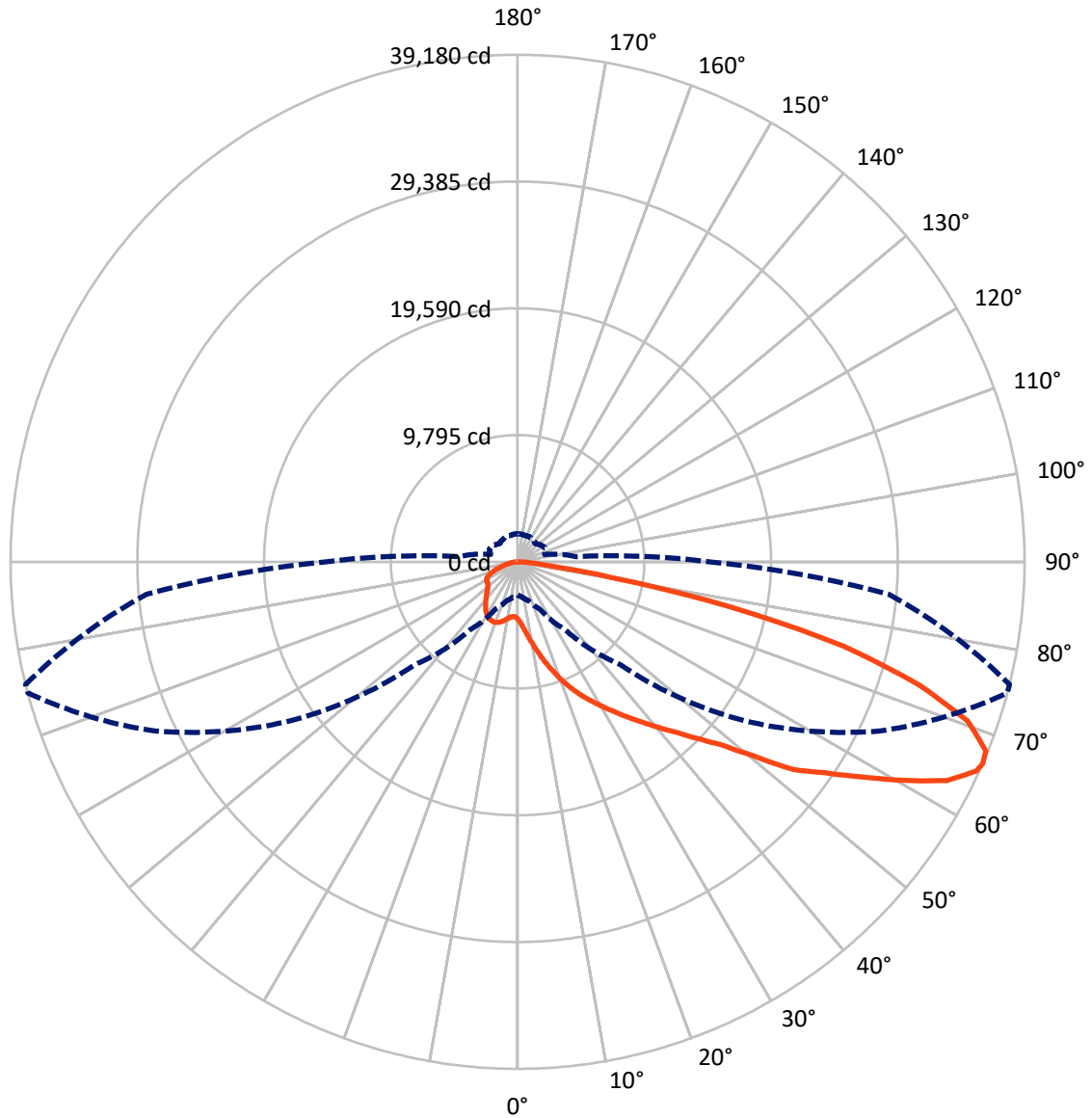
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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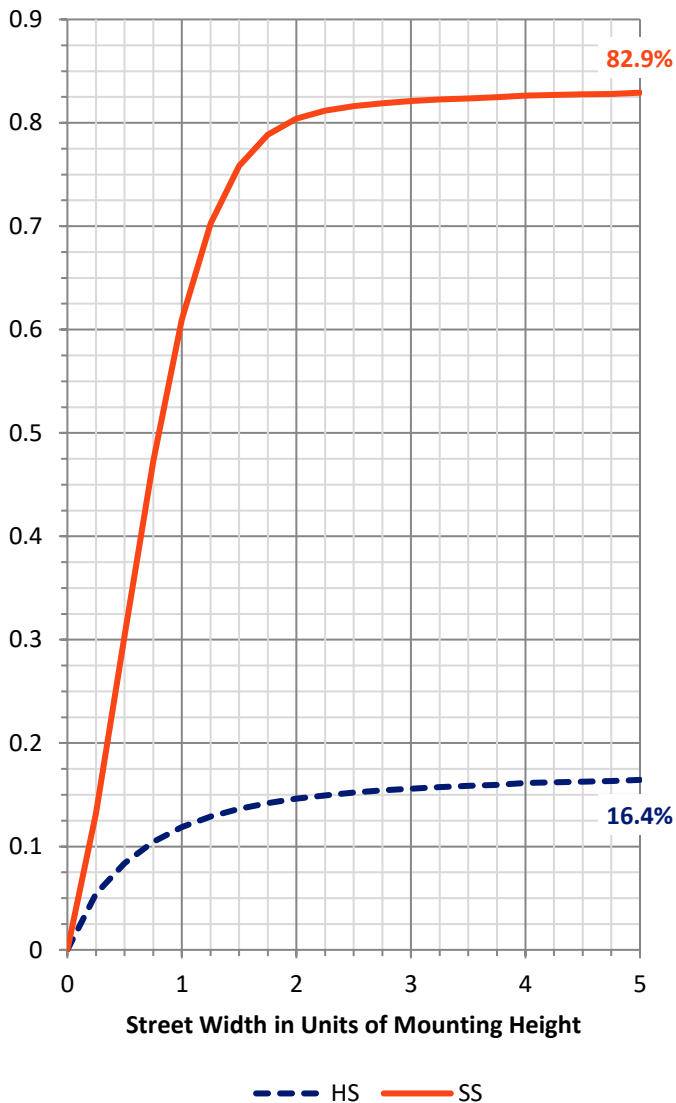
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8170.0	0.0	8170.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	40384.1	0.0	40384.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	48554.1	0.0	48554.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.2	1.1
10°-20°	2117.4	4.4
20°-30°	4114.7	8.5
30°-40°	6716.1	13.8
40°-50°	9175.7	18.9
50°-60°	10687.9	22.0
60°-70°	9581.9	19.7
70°-80°	4842.3	10.0
80°-90°	782.0	1.6
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°	48554.1	100.0
0°-180°	48554.1	100.0

Coefficient of Utilization

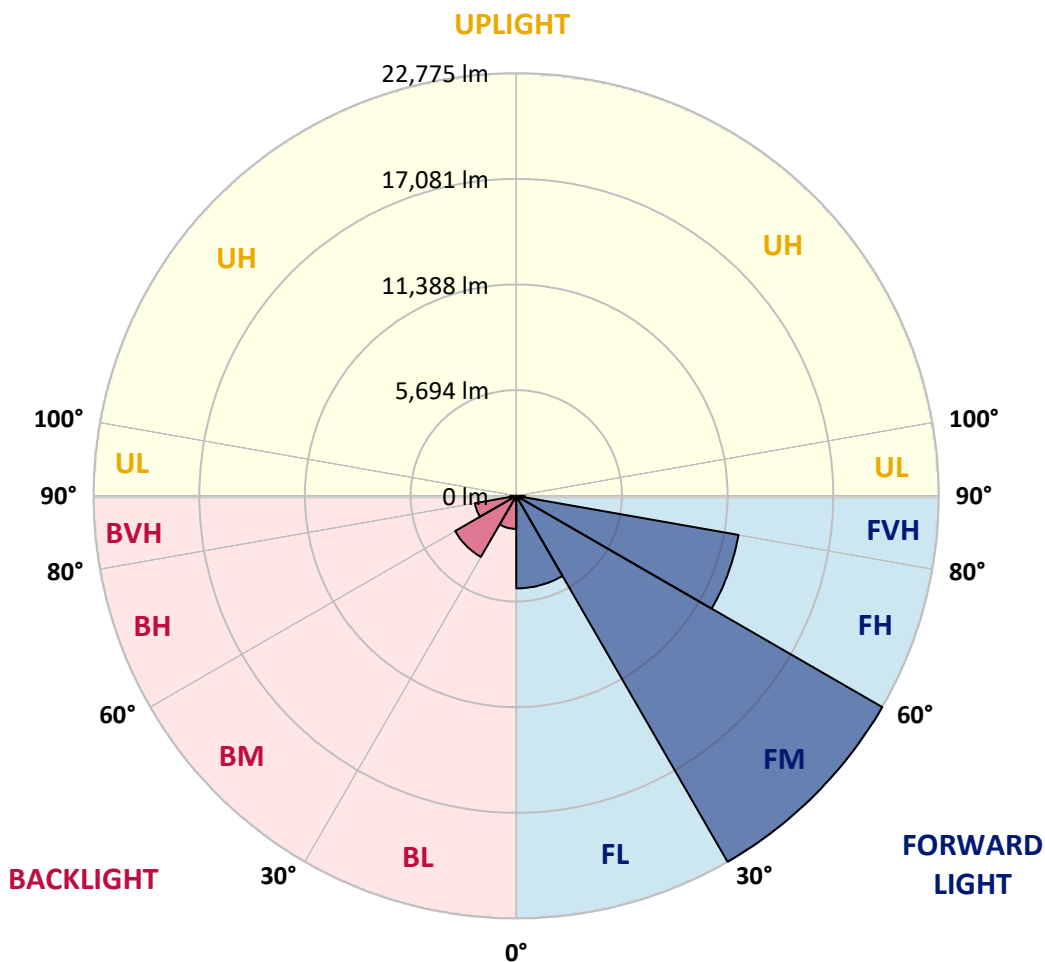


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4986.4	10.3			
FM (30°-60°)	22775.2	46.9			
FH (60°-80°)	12160.7	25.0			G5
FVH (80°-90°)	461.8	1.0			G3/500
BL (0°-30°)	1781.9	3.7	B3/2500		
BM (30°-60°)	3804.5	7.8	B3/5000		
BH (60°-80°)	2263.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	320.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1
2.5°	5886.3	5797.3	5789.0	5658.8	5629.2	5380.2	5197.3	5006.0	4788.5	4745.6	4574.2
5°	7561.0	7552.8	7439.1	7226.4	7059.9	6634.7	6214.4	5769.3	5281.3	5202.2	4816.5
7.5°	9067.6	9054.5	8967.1	8737.9	8497.3	7974.8	7374.8	6692.3	5901.2	5784.1	5144.6
10°	10211.6	10206.7	10177.0	10008.8	9804.4	9303.4	8640.7	7709.4	6621.4	6461.6	5555.0
12.5°	11095.1	11105.0	11124.8	11065.5	10968.2	10541.3	9862.1	8787.4	7389.6	7231.3	6011.6
15°	11693.4	11723.2	11825.3	11909.4	11960.5	11698.4	11040.7	9890.1	8250.1	8060.5	6517.6
17.5°	11995.1	12028.0	12204.5	12458.3	12692.3	12666.0	12143.5	10941.8	9075.9	8892.9	7061.6
20°	12255.5	12280.3	12478.1	12783.1	13196.8	13379.7	13086.3	11953.9	9980.8	9763.3	7638.5
22.5°	13010.5	13041.9	13101.2	13274.3	13640.2	13976.5	13834.7	12911.6	10810.0	10607.2	8185.8
25°	14467.7	14505.6	14376.9	14230.3	14299.5	14533.5	14560.0	13785.2	11650.6	11421.5	8774.2
27.5°	16223.2	16277.6	16058.3	15680.8	15351.2	15260.5	15229.2	14500.7	12453.4	12188.0	9356.1
30°	17942.4	18036.3	17751.2	17261.6	16656.6	16231.4	15916.5	15201.2	13244.6	12990.7	9905.0
32.5°	19622.0	19584.1	19170.4	18692.4	17983.6	17451.1	16689.6	15952.8	14134.7	13842.9	10450.6
35°	20772.6	20785.8	20401.7	19834.7	19158.9	18750.1	17724.8	16763.9	15042.9	14774.3	11070.4
37.5°	21751.7	21690.8	21255.6	20726.5	20144.6	19969.9	18936.3	17657.2	16027.0	15733.6	11729.8
40°	22078.1	22007.3	21722.1	21341.3	20874.9	20860.0	20273.2	18669.3	17139.6	16849.6	12473.1
42.5°	21880.3	21789.6	21672.6	21568.8	21425.4	21491.3	21529.2	19856.1	18362.8	18038.0	13333.6
45°	21150.1	21013.3	21095.7	21321.5	21633.1	22005.6	22663.2	21169.9	19732.5	19460.5	14344.1
47.5°	20027.5	19903.9	20161.1	20644.0	21491.3	22434.2	23736.4	22620.4	21367.7	21097.3	15783.0
50°	18448.5	18484.7	18852.3	19730.8	21011.6	22631.9	25058.4	24540.8	23744.6	23492.4	17746.3
52.5°	15857.2	15863.8	16899.0	18341.3	20161.1	22529.8	25791.9	26995.2	26990.2	26685.3	19615.5
55°	13450.6	13597.3	14416.5	16333.6	18783.1	22121.0	26304.5	28188.6	29121.6	28763.9	21357.8
57.5°	11100.0	11185.7	11962.2	13887.4	16816.6	21031.5	26830.3	29621.0	31577.6	31351.8	23523.7
60°	8426.4	8558.3	9361.0	11139.6	14301.2	19097.9	26879.8	31116.1	34513.4	34285.9	25941.9
62.5°	5469.3	5696.7	6448.4	8114.9	11258.3	16317.1	25732.5	32093.6	37295.8	37215.0	28088.0
65°	3143.4	3314.8	3837.4	5123.1	7767.1	12825.9	23004.5	31717.7	39008.5	38962.3	28890.8
66°	2568.2	2675.3	3075.9	4003.9	6408.9	11263.2	21418.8	30924.9	39178.2	39179.9	28798.5
67.5°	2053.9	2101.7	2281.4	2866.5	4729.2	8927.5	18585.2	29176.0	38967.2	39025.0	28203.4
70°	1699.4	1724.2	1780.2	1922.0	2581.3	5383.5	13191.8	24631.4	36849.0	36893.6	25880.9
72.5°	1524.8	1539.6	1561.0	1580.7	1821.5	3008.2	8057.1	19704.5	32307.8	32365.5	22341.9
75°	1381.3	1389.6	1386.2	1387.9	1528.0	1917.0	4163.7	14711.7	26123.2	26007.8	17115.0
77.5°	1213.2	1221.4	1205.0	1208.2	1351.7	1473.6	2071.9	10298.9	17629.2	16814.9	9642.9
80°	1025.3	1031.9	1025.3	1036.8	1176.9	1112.6	1205.0	5793.9	7795.1	7373.1	3428.6
82.5°	774.8	802.7	822.6	868.7	969.3	791.3	806.1	2256.6	2373.7	2259.9	1051.6
85°	339.5	413.7	619.8	664.3	728.6	474.7	529.1	919.8	965.9	936.3	382.4
87.5°	89.1	97.3	306.6	385.8	403.8	214.3	275.3	418.6	441.7	418.6	127.0
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°	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1
2.5°	4483.5	4402.8	4257.7	4129.2	4031.9	3966.0	3900.0	3867.0	3847.3	3827.4	3830.8
5°	4626.9	4463.8	4214.9	4038.4	3939.6	3876.9	3843.9	3830.8	3822.5	3802.8	3802.8
7.5°	4842.8	4612.1	4269.3	4087.9	4010.5	3962.6	3942.9	3936.3	3926.4	3903.3	3906.6
10°	5114.8	4791.8	4383.0	4206.6	4135.7	4083.0	4054.9	4045.1	4027.0	4000.5	4003.9
12.5°	5434.6	5014.3	4533.0	4348.4	4262.7	4191.8	4145.7	4117.6	4086.3	4051.7	4053.3
15°	5784.1	5256.6	4694.5	4475.3	4358.2	4259.3	4185.2	4137.4	4087.9	4045.1	4043.4
17.5°	6138.5	5490.7	4818.2	4544.6	4386.3	4256.1	4155.5	4081.3	4020.4	3967.6	3962.6
20°	6520.9	5701.6	4887.4	4537.9	4333.6	4178.5	4045.1	3952.7	3885.2	3832.5	3824.2
22.5°	6909.9	5899.5	4898.9	4470.3	4216.5	4027.0	3886.8	3784.6	3715.4	3661.0	3641.2
25°	7266.0	6052.7	4851.1	4340.2	4053.3	3848.9	3712.1	3608.3	3552.2	3487.9	3468.2
27.5°	7590.7	6160.0	4755.6	4173.6	3870.4	3669.3	3540.7	3451.7	3390.6	3341.2	3324.8
30°	7882.5	6217.6	4599.0	3975.8	3682.4	3499.5	3390.6	3329.7	3276.9	3214.3	3202.8
32.5°	8159.3	6217.6	4397.8	3759.9	3496.2	3349.5	3285.2	3247.3	3187.9	3126.9	3110.4
35°	8436.3	6179.7	4160.5	3534.1	3324.8	3242.3	3239.0	3194.6	3103.8	3021.5	3000.0
37.5°	8728.0	6102.2	3893.4	3323.1	3184.6	3194.6	3222.5	3123.7	2995.1	2878.0	2846.7
40°	9057.7	5995.1	3616.5	3140.2	3067.6	3173.1	3178.1	3021.5	2770.9	2663.8	2635.7
42.5°	9445.1	5887.9	3359.3	2978.6	2975.3	3108.8	3093.9	2800.6	2650.5	2596.1	2581.3
45°	9954.4	5826.9	3115.4	2825.3	2902.8	3005.0	2950.6	2678.6	2616.0	2584.7	2571.4
47.5°	10757.2	5858.2	2891.2	2703.4	2830.2	2901.1	2683.5	2629.1	2584.7	2546.8	2533.5
50°	11762.7	5840.2	2709.9	2619.2	2747.8	2792.3	2563.2	2564.8	2541.7	2498.9	2479.1
52.5°	12519.3	5698.4	2592.9	2571.4	2675.3	2599.5	2487.4	2502.2	2490.7	2428.1	2406.6
55°	13249.5	5576.4	2533.5	2553.3	2622.6	2358.8	2398.4	2434.6	2423.0	2362.1	2352.3
57.5°	14157.8	5553.3	2497.3	2558.2	2578.1	2238.5	2312.7	2360.4	2352.3	2325.8	2320.9
60°	15270.4	5559.9	2464.3	2566.5	2528.6	2149.5	2231.9	2292.9	2297.8	2292.9	2289.6
62.5°	15882.0	5380.2	2381.9	2543.4	2441.2	2071.9	2147.8	2236.8	2238.5	2248.4	2246.7
65°	15362.7	4842.8	2228.5	2462.6	2294.5	2007.7	2075.3	2172.6	2147.8	2192.3	2192.3
66°	14858.3	4533.0	2152.7	2409.9	2231.9	1983.0	2052.2	2139.6	2108.3	2169.2	2169.2
67.5°	13828.1	4010.5	2016.0	2297.8	2142.8	1948.3	2025.8	2085.2	2042.3	2133.0	2126.4
70°	11945.7	3102.2	1740.7	2044.0	1996.1	1897.3	1989.6	1976.4	1913.8	2052.2	2025.8
72.5°	10071.5	2357.2	1397.8	1711.0	1773.7	1833.0	1938.5	1837.9	1758.8	1856.0	1798.4
75°	7814.8	1772.0	1104.4	1330.2	1498.4	1732.4	1877.4	1678.0	1564.3	1554.4	1523.1
77.5°	4224.8	1216.5	875.3	1015.4	1190.1	1607.1	1836.3	1506.6	1335.2	1295.6	1270.9
80°	1673.1	791.3	636.2	769.7	832.4	1425.8	1737.3	1307.1	1101.1	1061.5	1023.7
82.5°	690.6	468.1	410.4	515.9	542.3	1219.8	1559.3	1071.5	850.6	1176.9	1249.5
85°	296.7	257.1	244.0	267.1	306.6	855.5	1241.2	817.6	918.1	819.2	651.1
87.5°	89.1	108.8	103.9	102.2	112.1	204.4	661.0	455.0	674.2	255.5	191.2
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)