

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: P317572

Luminaire Tested: **GLEON-SA8C-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317572
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-SA8C-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 43413 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

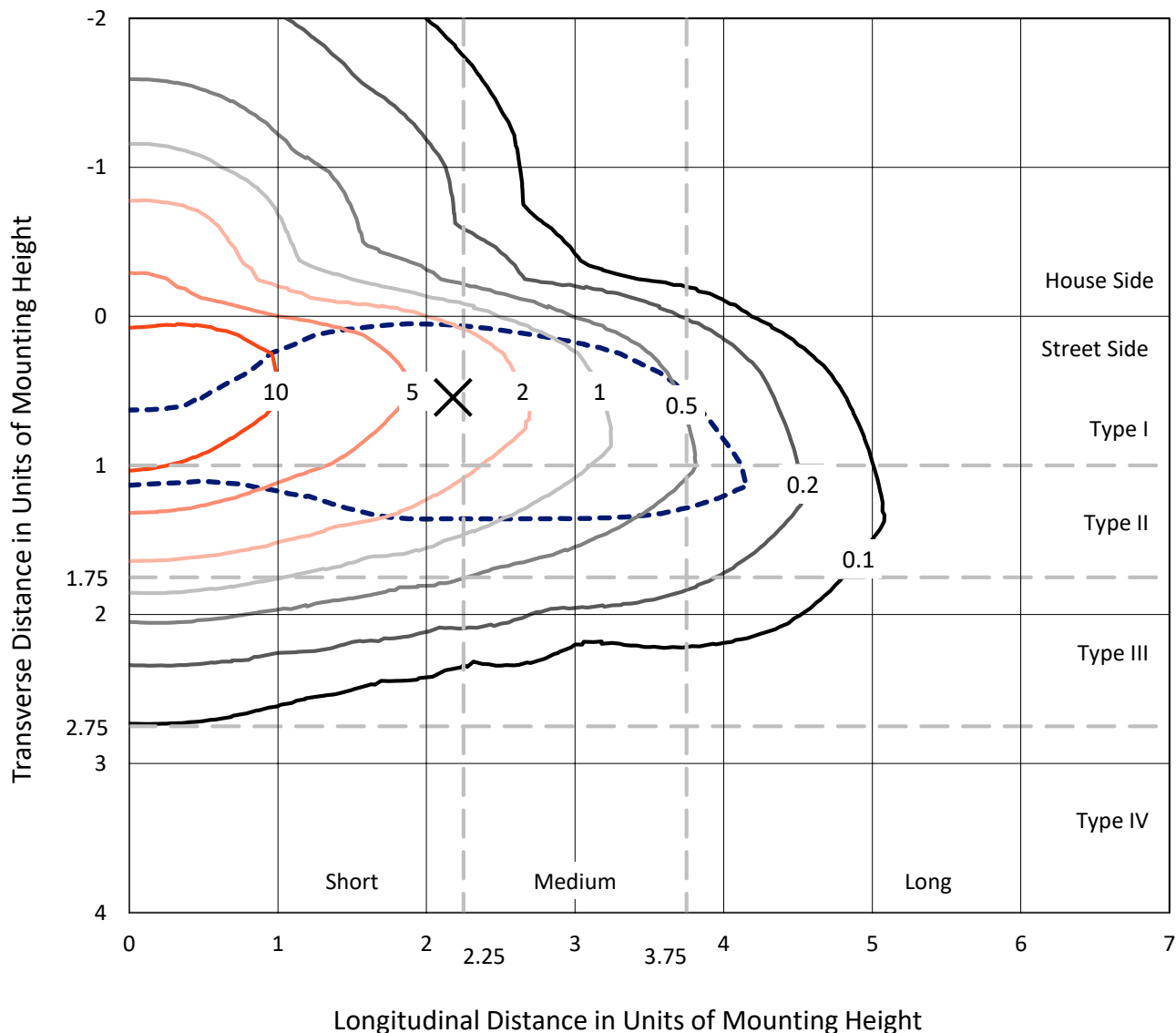
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

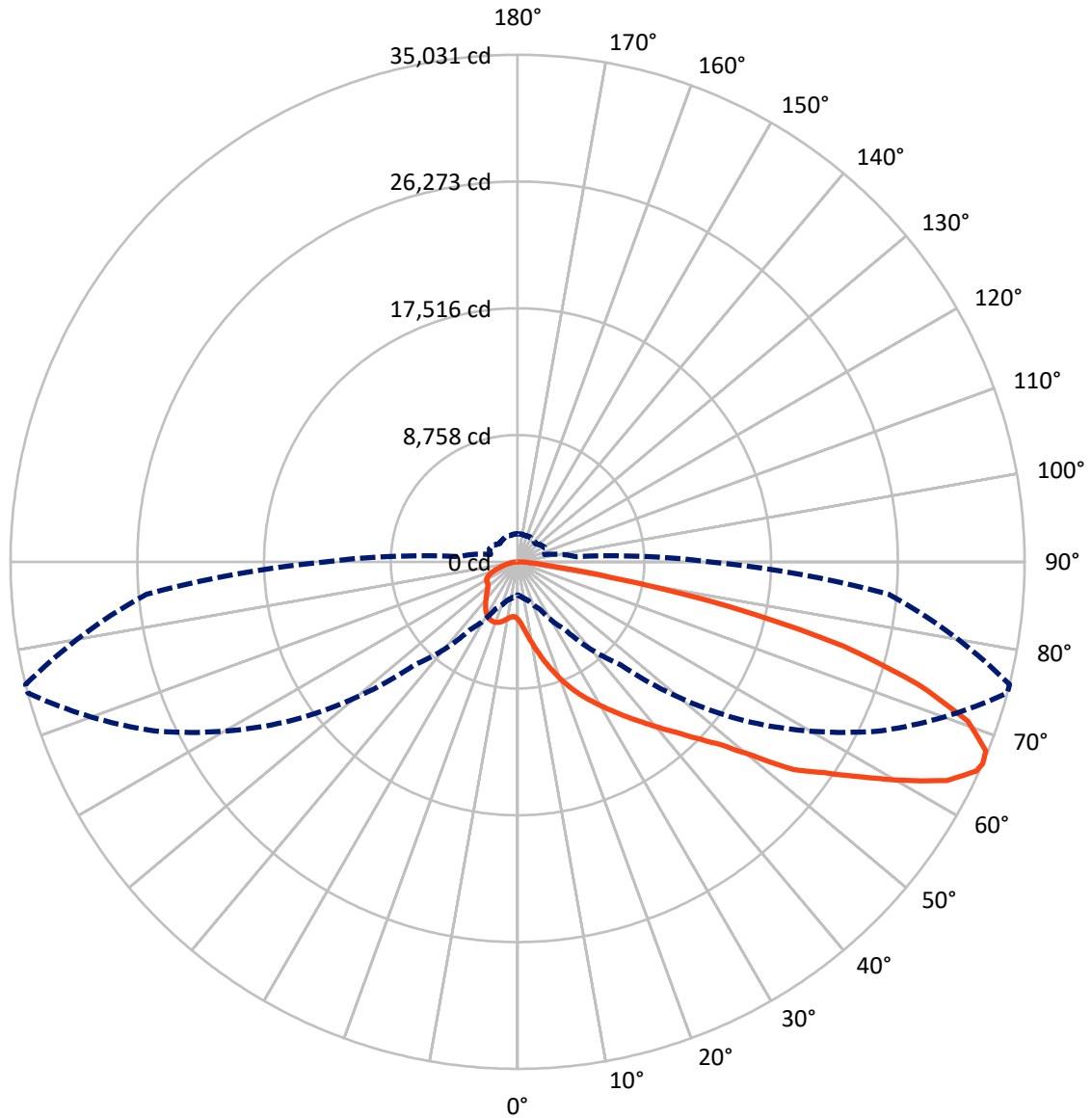
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 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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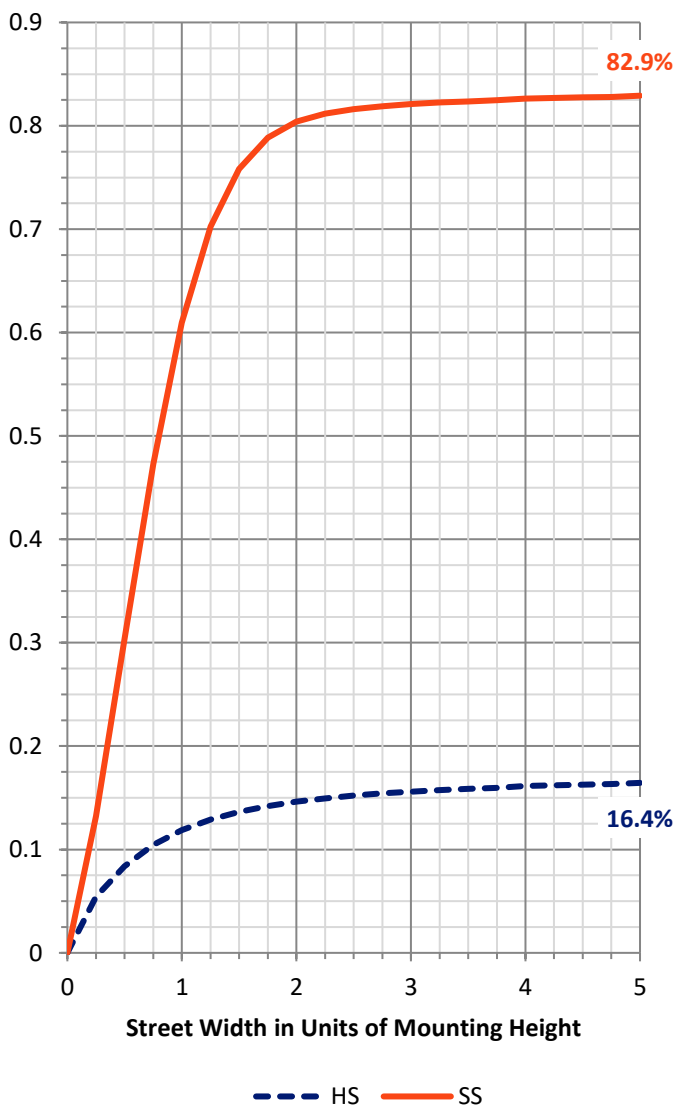
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7304.9	0.0	7304.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	36108.1	0.0	36108.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	43413.0	0.0	43413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.4	1.1
10°-20°	1893.2	4.4
20°-30°	3679.0	8.5
30°-40°	6004.9	13.8
40°-50°	8204.2	18.9
50°-60°	9556.2	22.0
60°-70°	8567.3	19.7
70°-80°	4329.6	10.0
80°-90°	699.2	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°	43413.0	100.0
0°-180°	43413.0	100.0

Coefficient of Utilization



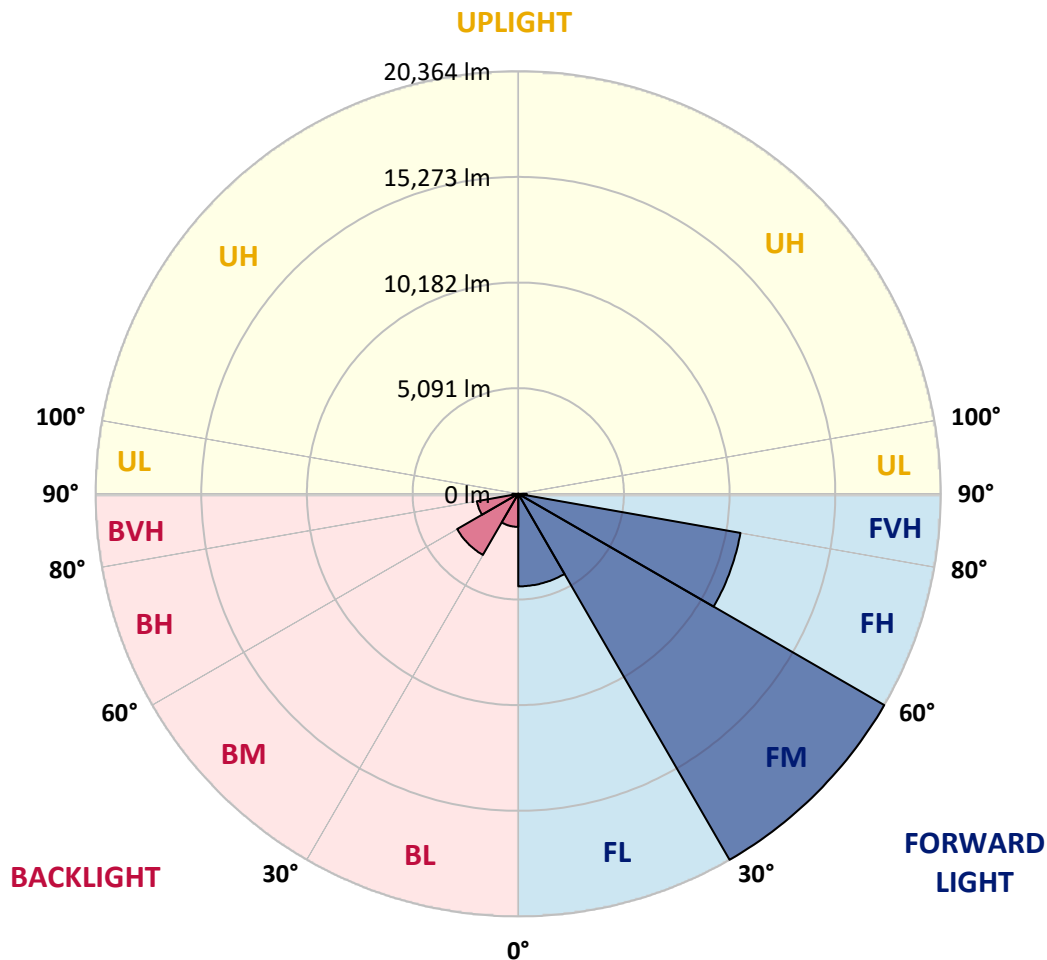
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4458.4	10.3			
FM (30°-60°)	20363.7	46.9			
FH (60°-80°)	10873.1	25.0			G4/12000
FVH (80°-90°)	412.9	1.0			G3/500
BL (0°-30°)	1593.2	3.7	B3/2500		
BM (30°-60°)	3401.6	7.8	B3/5000		
BH (60°-80°)	2023.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	286.3	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6
2.5°	5263.0	5183.4	5176.1	5059.6	5033.1	4810.6	4647.0	4476.0	4281.5	4243.1	4089.9
5°	6760.4	6753.1	6651.4	6461.2	6312.4	5932.1	5556.3	5158.4	4722.1	4651.4	4306.5
7.5°	8107.5	8095.7	8017.6	7812.7	7597.6	7130.4	6593.9	5983.7	5276.3	5171.6	4599.8
10°	9130.3	9125.9	9099.4	8949.1	8766.3	8318.3	7725.8	6893.1	5920.4	5777.4	4966.8
12.5°	9920.3	9929.2	9946.8	9893.8	9806.8	9425.1	8817.9	7857.0	6607.2	6465.7	5375.0
15°	10455.3	10481.8	10573.2	10648.4	10694.1	10459.7	9871.7	8842.9	7376.5	7207.0	5827.5
17.5°	10725.0	10754.5	10912.2	11139.2	11348.4	11324.9	10857.7	9783.2	8114.9	7951.3	6313.9
20°	10957.9	10980.0	11156.8	11429.5	11799.4	11963.0	11700.7	10688.2	8924.0	8729.5	6829.7
22.5°	11632.9	11660.9	11714.0	11868.7	12195.9	12496.6	12369.8	11544.5	9665.3	9484.1	7319.0
25°	12935.8	12969.6	12854.7	12723.5	12785.4	12994.7	13018.3	12325.6	10417.0	10212.1	7845.2
27.5°	14505.4	14554.0	14358.0	14020.5	13725.7	13644.7	13616.7	12965.2	11134.7	10897.5	8365.4
30°	16042.6	16126.6	15871.6	15433.9	14893.0	14512.7	14231.2	13591.6	11842.2	11615.2	8856.2
32.5°	17544.4	17510.5	17140.6	16713.2	16079.4	15603.4	14922.5	14263.7	12638.0	12377.2	9344.0
35°	18573.1	18584.9	18241.5	17734.5	17130.3	16764.7	15848.0	14988.8	13450.1	13209.9	9898.2
37.5°	19448.6	19394.0	19005.0	18531.9	18011.6	17855.4	16931.3	15787.6	14330.0	14067.6	10487.7
40°	19740.4	19677.0	19422.1	19081.6	18664.5	18651.2	18126.6	16692.5	15324.8	15065.4	11152.4
42.5°	19563.5	19482.5	19377.8	19285.0	19156.8	19215.7	19249.6	17753.7	16418.4	16128.1	11921.8
45°	18910.6	18788.3	18862.0	19063.9	19342.5	19675.5	20263.6	18928.3	17643.1	17400.0	12825.2
47.5°	17907.0	17796.4	18026.3	18458.2	19215.7	20058.7	21223.1	20225.3	19105.2	18863.5	14111.9
50°	16495.0	16527.5	16856.1	17641.7	18786.8	20235.6	22405.1	21942.3	21230.4	21004.9	15867.2
52.5°	14178.2	14184.1	15109.6	16399.2	18026.3	20144.2	23060.9	24136.8	24132.4	23859.7	17538.5
55°	12026.4	12157.6	12890.1	14604.1	16794.2	19778.7	23519.3	25203.9	26038.0	25718.2	19096.3
57.5°	9924.7	10001.4	10695.5	12417.0	15036.0	18804.5	23989.4	26484.6	28234.0	28032.1	21032.9
60°	7534.2	7652.1	8369.8	9960.1	12786.9	17075.7	24033.6	27821.4	30858.9	30655.5	23195.0
62.5°	4890.1	5093.5	5765.6	7255.6	10066.2	14589.4	23007.9	28695.3	33346.7	33274.5	25114.0
65°	2810.6	2963.9	3431.1	4580.6	6944.7	11467.8	20568.7	28359.3	34878.0	34836.8	25831.7
66°	2296.2	2392.0	2750.2	3579.9	5730.2	10070.6	19150.9	27650.4	35029.8	35031.3	25749.2
67.5°	1836.4	1879.1	2039.8	2563.0	4228.4	7982.2	16617.4	26086.7	34841.2	34892.8	25217.1
70°	1519.5	1541.6	1591.7	1718.5	2308.0	4813.5	11795.0	22023.3	32947.3	32987.1	23140.5
72.5°	1363.3	1376.6	1395.7	1413.4	1628.6	2689.7	7204.1	17618.1	28886.9	28938.5	19976.2
75°	1235.1	1242.4	1239.5	1241.0	1366.2	1714.1	3722.9	13153.9	23357.2	23254.0	15302.7
77.5°	1084.7	1092.1	1077.4	1080.3	1208.5	1317.6	1852.6	9208.5	15762.5	15034.5	8621.9
80°	916.7	922.6	916.7	927.0	1052.3	994.8	1077.4	5180.5	6969.7	6592.4	3065.6
82.5°	692.7	717.8	735.4	776.7	866.6	707.4	720.7	2017.7	2122.3	2020.6	940.3
85°	303.6	369.9	554.2	594.0	651.4	424.5	473.1	822.4	863.7	837.1	341.9
87.5°	79.6	87.0	274.1	344.9	361.1	191.6	246.1	374.4	395.0	374.4	113.5
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°	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6	3964.6
2.5°	4008.8	3936.6	3806.9	3691.9	3605.0	3546.0	3487.1	3457.6	3439.9	3422.2	3425.2
5°	4137.0	3991.1	3768.6	3610.9	3522.4	3466.4	3437.0	3425.2	3417.8	3400.1	3400.1
7.5°	4330.1	4123.8	3817.2	3655.1	3585.8	3543.1	3525.4	3519.5	3510.6	3490.0	3493.0
10°	4573.3	4284.4	3918.9	3761.2	3697.8	3650.7	3625.6	3616.8	3600.6	3577.0	3579.9
12.5°	4859.2	4483.4	4053.0	3887.9	3811.3	3747.9	3706.7	3681.6	3653.6	3622.7	3624.1
15°	5171.6	4700.0	4197.5	4001.4	3896.8	3808.4	3742.0	3699.3	3655.1	3616.8	3615.3
17.5°	5488.5	4909.3	4308.0	4063.3	3921.8	3805.4	3715.5	3649.2	3594.7	3547.5	3543.1
20°	5830.4	5098.0	4369.9	4057.4	3874.7	3736.1	3616.8	3534.2	3473.8	3426.6	3419.3
22.5°	6178.3	5274.8	4380.2	3997.0	3770.0	3600.6	3475.3	3383.9	3322.0	3273.4	3255.7
25°	6496.6	5411.9	4337.5	3880.6	3624.1	3441.4	3319.1	3226.2	3176.1	3118.6	3100.9
27.5°	6787.0	5507.7	4252.0	3731.7	3460.5	3280.7	3165.8	3086.2	3031.7	2987.4	2972.7
30°	7047.8	5559.3	4112.0	3554.9	3292.5	3128.9	3031.7	2977.1	2930.0	2874.0	2863.6
32.5°	7295.4	5559.3	3932.2	3361.8	3126.0	2994.8	2937.3	2903.4	2850.4	2795.8	2781.1
35°	7543.0	5525.4	3719.9	3159.9	2972.7	2899.0	2896.1	2856.3	2775.2	2701.5	2682.4
37.5°	7803.9	5456.1	3481.2	2971.2	2847.4	2856.3	2881.3	2792.9	2677.9	2573.3	2545.3
40°	8098.7	5360.3	3233.6	2807.6	2742.8	2837.1	2841.5	2701.5	2477.5	2381.7	2356.6
42.5°	8445.0	5264.5	3003.7	2663.2	2660.3	2779.6	2766.4	2504.0	2369.9	2321.3	2308.0
45°	8900.4	5210.0	2785.5	2526.1	2595.4	2686.8	2638.1	2395.0	2339.0	2311.0	2299.2
47.5°	9618.2	5238.0	2585.1	2417.1	2530.6	2593.9	2399.4	2350.7	2311.0	2277.1	2265.3
50°	10517.2	5221.8	2423.0	2341.9	2456.9	2496.7	2291.8	2293.3	2272.6	2234.3	2216.6
52.5°	11193.7	5095.0	2318.3	2299.2	2392.0	2324.2	2224.0	2237.3	2226.9	2170.9	2151.8
55°	11846.6	4985.9	2265.3	2283.0	2344.9	2109.0	2144.4	2176.8	2166.5	2112.0	2103.1
57.5°	12658.7	4965.3	2232.8	2287.4	2305.1	2001.5	2067.8	2110.5	2103.1	2079.6	2075.1
60°	13653.5	4971.2	2203.4	2294.7	2260.8	1921.9	1995.6	2050.1	2054.5	2050.1	2047.1
62.5°	14200.3	4810.6	2129.7	2274.1	2182.7	1852.6	1920.4	2000.0	2001.5	2010.3	2008.8
65°	13736.0	4330.1	1992.6	2201.9	2051.6	1795.1	1855.5	1942.5	1920.4	1960.2	1960.2
66°	13285.0	4053.0	1924.8	2154.7	1995.6	1773.0	1834.9	1913.0	1885.0	1939.6	1939.6
67.5°	12363.9	3585.8	1802.5	2054.5	1916.0	1742.1	1811.3	1864.4	1826.1	1907.1	1901.2
70°	10680.8	2773.7	1556.4	1827.5	1784.8	1696.4	1778.9	1767.1	1711.1	1834.9	1811.3
72.5°	9005.1	2107.6	1249.8	1529.8	1585.8	1638.9	1733.2	1643.3	1572.6	1659.5	1607.9
75°	6987.4	1584.4	987.5	1189.4	1339.7	1549.0	1678.7	1500.4	1398.7	1389.8	1361.8
77.5°	3777.4	1087.7	782.6	907.9	1064.1	1437.0	1641.8	1347.1	1193.8	1158.4	1136.3
80°	1495.9	707.4	568.9	688.3	744.3	1274.9	1553.4	1168.7	984.5	949.1	915.2
82.5°	617.5	418.6	367.0	461.3	484.9	1090.6	1394.2	958.0	760.5	1052.3	1117.2
85°	265.3	229.9	218.1	238.8	274.1	764.9	1109.8	731.0	820.9	732.5	582.2
87.5°	79.6	97.3	92.9	91.4	100.2	182.8	591.0	406.8	602.8	228.4	171.0
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)