

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: P648614

Luminaire Tested: **GALN-SA8B-835-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36665.5 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

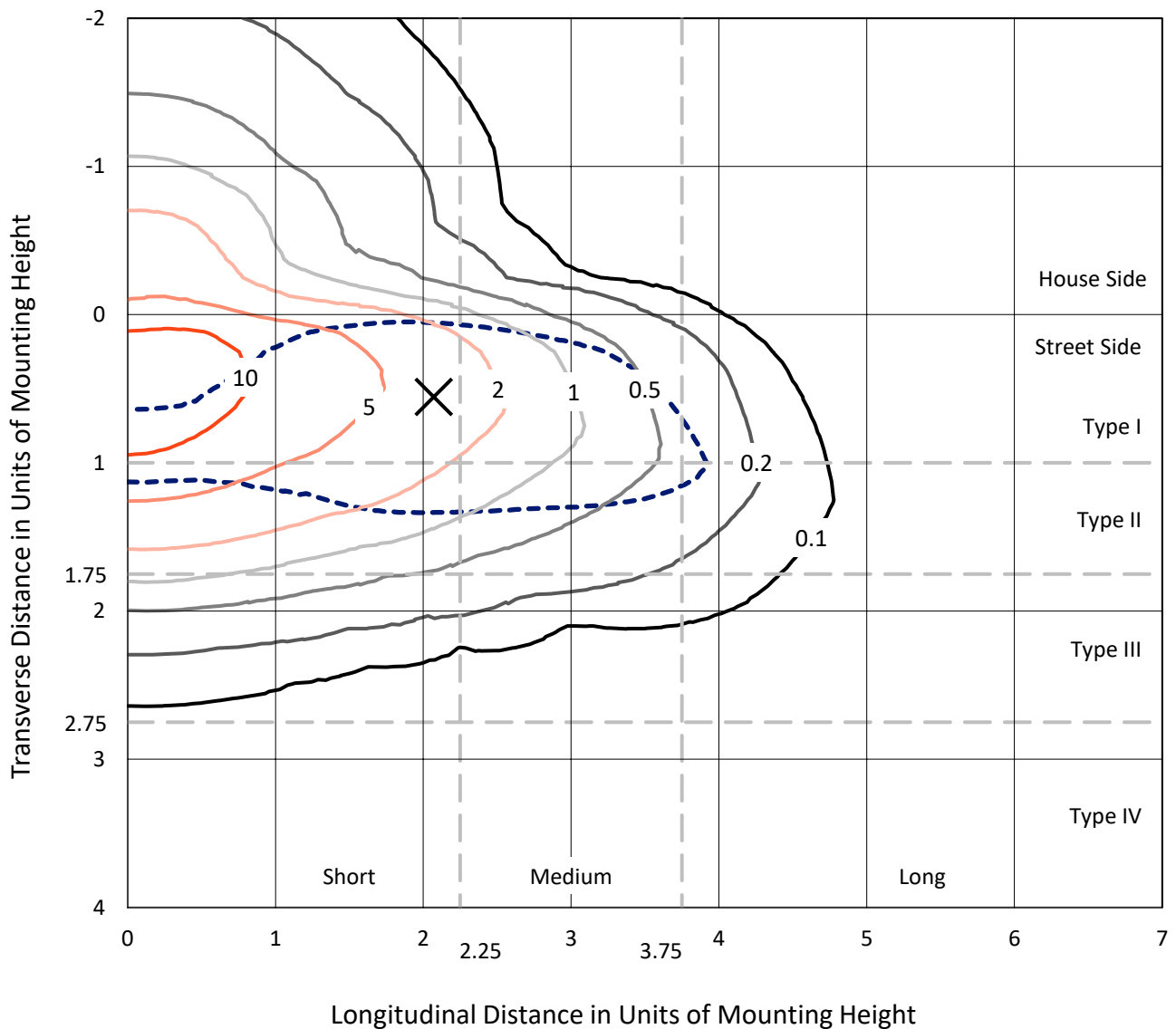
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

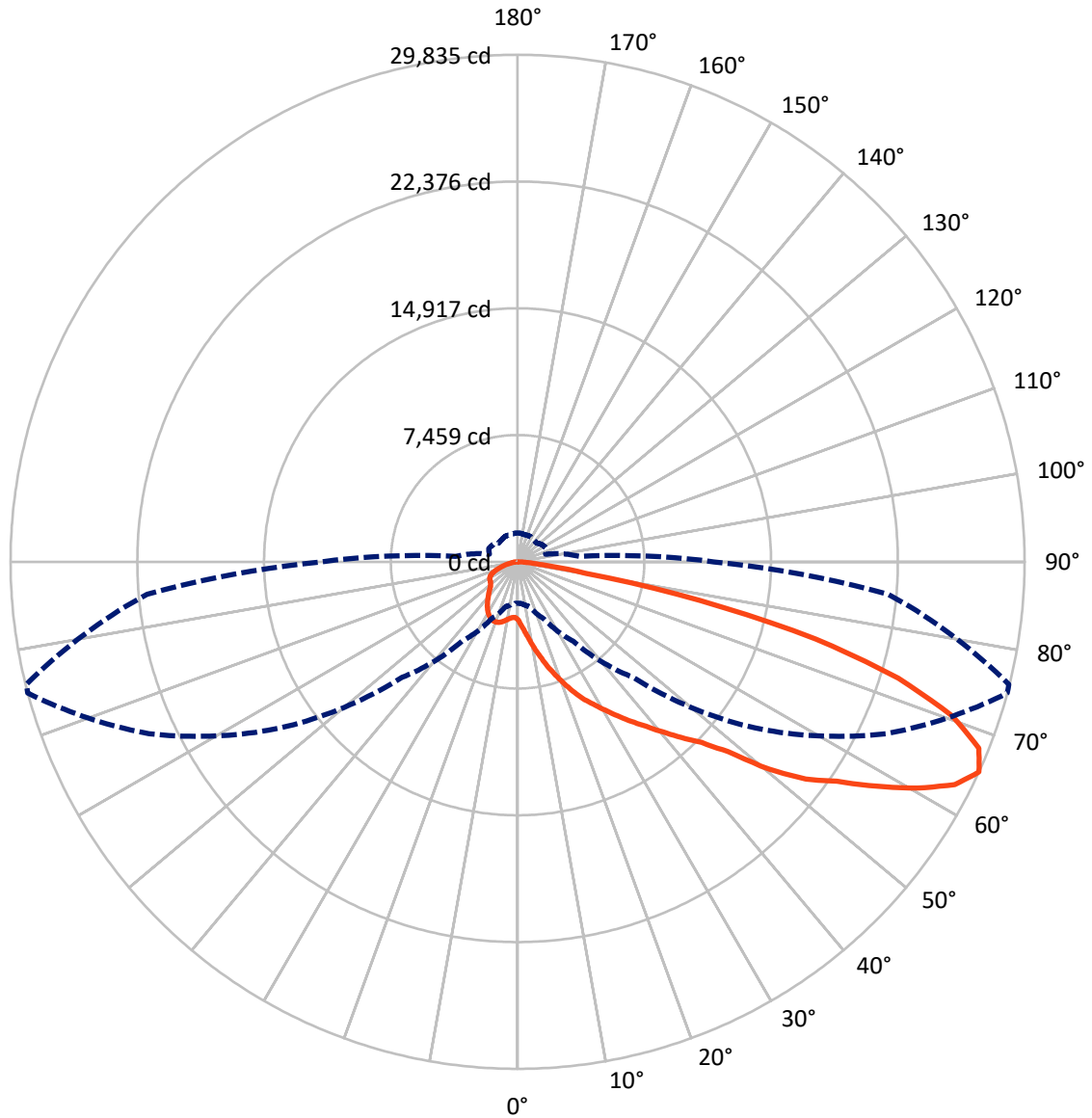
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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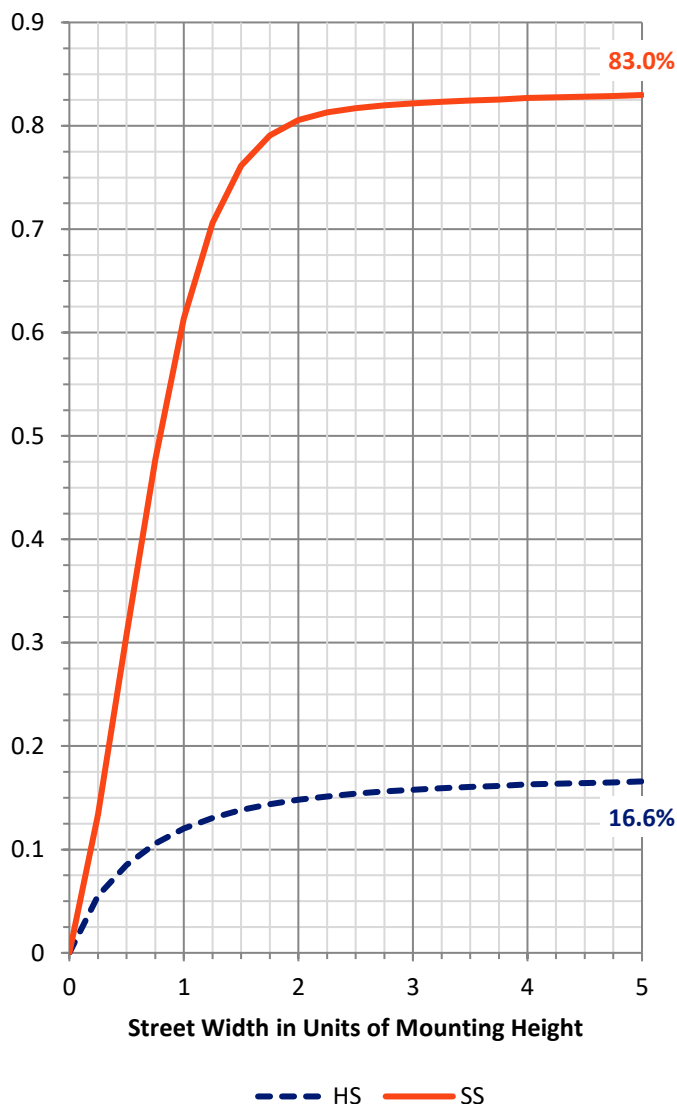
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6163.9	0.0	6163.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	30501.6	0.0	30501.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	36665.5	0.0	36665.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.9	1.1
10°-20°	1621.2	4.4
20°-30°	3131.6	8.5
30°-40°	5086.7	13.9
40°-50°	6997.2	19.1
50°-60°	8261.3	22.5
60°-70°	7238.3	19.7
70°-80°	3455.6	9.4
80°-90°	459.8	1.3
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°	36665.5	100.0
0°-180°	36665.5	100.0

Coefficient of Utilization



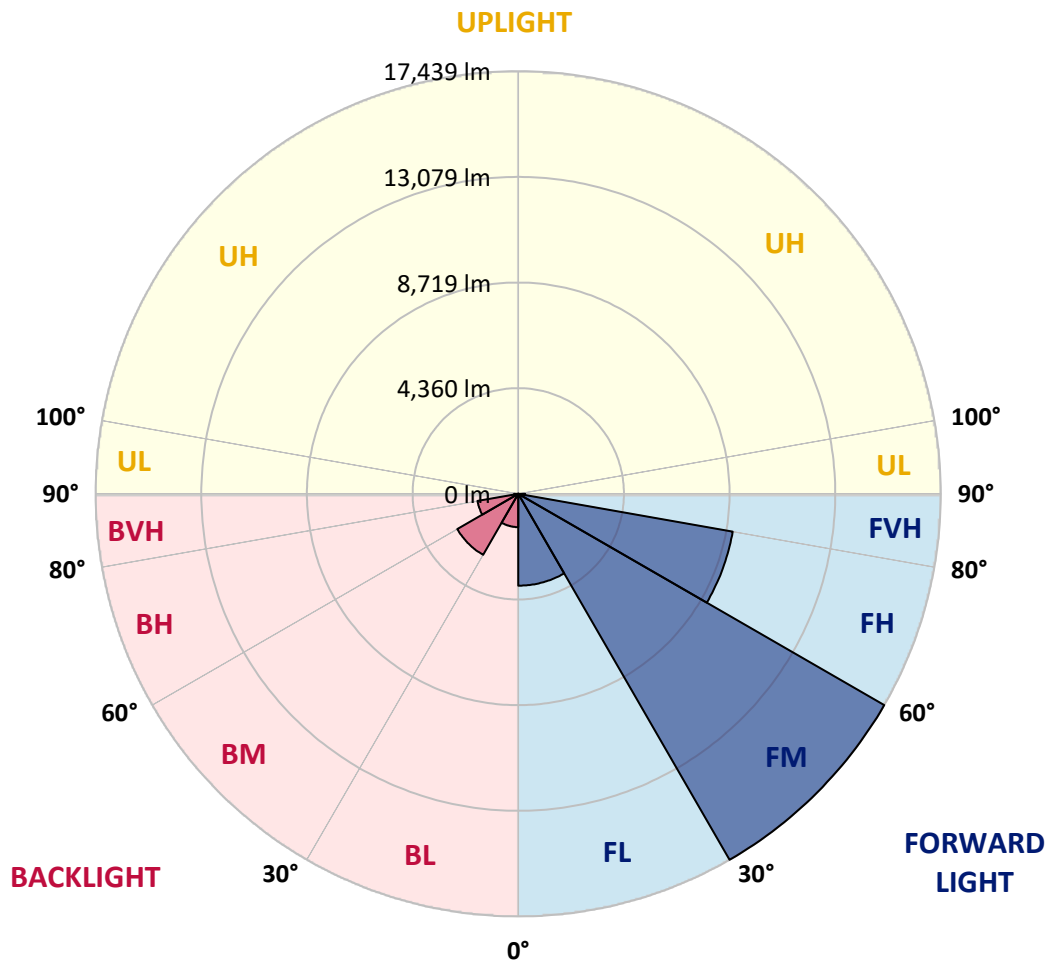
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3790.6	10.3			
FM (30°-60°)	17438.9	47.6			
FH (60°-80°)	8984.7	24.5			G4/12000
FVH (80°-90°)	287.4	0.8			G3/500
BL (0°-30°)	1376.1	3.8	B3/2500		
BM (30°-60°)	2906.3	7.9	B3/5000		
BH (60°-80°)	1709.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	172.5	0.5			G2/225
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°	3406.7	3406.7	3406.7	3406.7	3406.7	3406.7	3406.7	3406.7	3406.7	3406.7	3406.7
2.5°	4526.4	4496.5	4464.7	4377.2	4283.7	4178.3	4027.2	3882.0	3689.1	3683.2	3539.9
5°	5781.2	5761.3	5620.1	5538.6	5321.8	5033.4	4788.8	4409.0	4057.0	4015.2	3736.8
7.5°	6934.7	6857.1	6803.4	6656.3	6441.5	6071.6	5598.3	5085.2	4496.5	4440.9	3979.4
10°	7803.8	7795.8	7768.0	7640.7	7479.6	7111.7	6586.7	5850.8	5053.3	4943.9	4273.8
12.5°	8454.1	8460.1	8456.1	8454.1	8338.7	8026.5	7457.8	6682.1	5616.1	5538.6	4613.8
15°	8881.6	8941.3	8965.2	9064.6	9074.6	8865.8	8376.5	7485.6	6250.6	6135.2	4979.8
17.5°	9164.1	9193.9	9305.3	9474.3	9611.6	9573.7	9138.2	8229.3	6898.9	6706.0	5359.6
20°	9434.5	9486.2	9571.8	9802.5	10045.0	10156.4	9850.1	8991.0	7541.2	7418.0	5779.2
22.5°	9997.3	10070.9	10100.8	10218.1	10424.9	10621.8	10482.6	9720.9	8245.3	8078.2	6224.7
25°	10949.9	11027.5	10944.0	10916.1	10983.8	11081.2	11051.3	10409.0	8909.5	8670.9	6646.3
27.5°	12190.9	12200.9	12037.8	11882.7	11715.6	11665.9	11574.4	11019.6	9486.2	9287.4	7069.9
30°	13523.3	13475.6	13205.1	12924.7	12642.3	12364.0	12101.4	11608.2	10128.6	9899.9	7485.6
32.5°	14760.3	14734.5	14434.2	13998.6	13521.4	13258.9	12727.9	12202.8	10816.7	10595.9	7913.2
35°	15687.1	15724.9	15394.7	14919.4	14398.4	14165.7	13495.5	12827.3	11528.7	11288.0	8378.5
37.5°	16345.4	16325.5	16033.1	15621.5	15164.0	14961.2	14392.4	13509.4	12294.4	12063.6	8887.6
40°	16580.0	16568.1	16351.3	16051.0	15760.7	15689.0	15331.1	14245.3	13171.3	12900.9	9500.1
42.5°	16430.9	16456.7	16313.6	16232.0	16178.3	16230.0	16263.8	15209.8	14127.9	13879.3	10164.4
45°	15973.4	15959.6	15939.7	16072.9	16375.2	16715.2	17186.6	16120.6	15168.0	14969.2	11055.3
47.5°	15156.1	15255.5	15305.2	15673.2	16333.5	17138.9	18248.6	17341.7	16677.5	16504.5	12413.7
50°	14012.6	14092.1	14386.5	15040.7	16025.2	17298.0	19286.7	19338.4	19195.2	18871.1	13889.2
52.5°	12226.7	12350.0	12956.5	14155.8	15392.8	17232.3	19915.1	21050.7	21239.7	20997.0	15343.0
55°	10228.0	10401.1	11041.4	12614.5	14521.7	16874.4	20348.7	22043.1	22796.8	22572.1	16743.1
57.5°	8271.1	8454.1	9112.3	10635.7	13002.3	16082.8	20633.1	23148.8	24916.8	24624.4	18485.2
60°	6198.9	6389.7	6954.6	8523.7	10838.6	14535.6	20440.1	24107.4	27034.8	26909.5	20229.4
62.5°	3999.3	4210.1	4701.4	6000.0	8330.8	12421.6	19408.0	24636.4	28868.3	28717.2	21502.1
65°	2436.2	2460.0	2730.6	3724.9	5701.6	9617.5	17047.4	23934.4	29834.9	29789.2	21889.9
67.5°	1575.1	1612.8	1736.1	2231.3	3418.7	6680.2	13630.8	21617.5	29270.1	29254.2	21088.5
70°	1330.5	1342.4	1398.0	1505.5	1986.7	4051.0	9571.8	17924.4	27124.3	27124.3	19161.4
72.5°	1189.3	1205.2	1225.1	1258.8	1417.9	2295.0	5711.6	13952.9	23419.3	23574.4	16309.6
75°	1079.9	1075.9	1087.8	1093.8	1209.1	1499.5	2953.2	10319.5	18117.3	17807.1	11811.1
77.5°	924.7	930.8	924.7	950.6	1067.9	1141.5	1499.5	6924.8	10979.8	10578.0	5928.4
80°	759.7	769.6	779.6	795.5	912.8	867.1	900.9	3156.1	4061.0	3975.4	1831.6
82.5°	570.7	584.7	600.6	638.4	717.9	572.8	568.8	1348.3	1465.7	1342.4	674.2
85°	230.7	272.5	411.7	449.4	451.5	314.2	350.0	562.8	598.6	584.7	264.5
87.5°	53.7	63.7	133.3	200.8	184.9	117.4	129.3	183.0	208.8	192.9	89.5
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°	3406.7	3406.7	3406.7	3406.7	3406.7	3406.7	3406.7	3406.7	3406.7	3406.7	3406.7
2.5°	3474.3	3404.7	3285.4	3193.9	3128.2	3070.6	3034.8	3012.9	3005.0	3003.0	3005.0
5°	3591.6	3468.4	3279.4	3160.1	3094.5	3056.7	3034.8	3032.8	3034.8	3036.8	3030.8
7.5°	3752.8	3575.7	3329.2	3217.7	3168.0	3140.2	3130.3	3126.3	3128.2	3126.3	3126.3
10°	3967.5	3724.9	3426.6	3311.2	3269.5	3237.6	3221.7	3211.8	3203.9	3195.9	3191.9
12.5°	4204.2	3889.9	3532.0	3420.6	3360.9	3311.2	3275.4	3249.6	3231.7	3213.8	3209.8
15°	4468.7	4064.9	3649.3	3494.2	3408.7	3335.1	3273.4	3231.7	3199.9	3174.0	3172.0
17.5°	4721.3	4230.0	3728.9	3528.0	3402.7	3299.3	3217.7	3160.1	3120.3	3086.5	3082.5
20°	4991.7	4387.1	3764.7	3506.1	3343.0	3217.7	3110.4	3040.8	2995.1	2957.2	2951.3
22.5°	5264.2	4520.4	3760.7	3436.5	3239.7	3092.5	2979.1	2905.6	2851.8	2814.0	2800.2
25°	5524.7	4627.8	3711.0	3325.2	3096.5	2943.3	2828.0	2760.4	2712.6	2666.9	2666.9
27.5°	5759.4	4691.4	3617.5	3189.9	2949.2	2788.2	2696.7	2635.0	2591.3	2561.5	2543.6
30°	5990.0	4721.3	3490.2	3018.9	2794.1	2657.0	2583.4	2547.6	2507.8	2474.0	2470.0
32.5°	6196.9	4715.3	3331.1	2851.8	2647.0	2549.5	2519.7	2491.9	2450.1	2402.4	2390.4
35°	6397.7	4675.5	3142.2	2668.9	2523.7	2485.9	2493.9	2454.1	2378.5	2318.9	2308.9
37.5°	6616.5	4603.9	2935.4	2519.7	2420.3	2456.1	2476.0	2388.5	2265.1	2171.7	2149.8
40°	6869.1	4522.4	2720.6	2370.5	2338.7	2428.2	2428.2	2267.2	2098.1	2040.4	2024.5
42.5°	7165.4	4454.7	2541.6	2245.3	2271.1	2360.6	2350.6	2106.0	2036.4	2006.6	1998.7
45°	7634.7	4430.9	2356.7	2135.9	2215.4	2281.0	2199.5	2050.4	2010.6	1986.7	1978.8
47.5°	8376.5	4458.7	2193.6	2054.4	2151.8	2201.6	2030.5	2012.6	1984.7	1950.9	1946.9
50°	9064.6	4432.9	2078.2	2008.6	2096.1	2106.0	1960.9	1966.8	1950.9	1913.2	1905.2
52.5°	9627.5	4351.4	2004.6	1984.7	2048.4	1939.0	1895.3	1917.1	1911.1	1863.5	1855.5
55°	10245.9	4301.6	1968.9	1984.7	2016.5	1793.9	1833.6	1865.4	1857.5	1823.7	1821.6
57.5°	10995.7	4311.6	1943.0	1990.7	1984.7	1720.3	1771.9	1809.7	1807.8	1797.8	1797.8
60°	11763.3	4315.5	1903.2	1988.7	1946.9	1662.5	1708.3	1762.0	1766.0	1771.9	1771.9
62.5°	12017.9	4142.5	1825.6	1953.0	1863.5	1606.9	1648.7	1722.2	1718.3	1734.2	1736.1
65°	11542.6	3663.3	1710.3	1871.4	1756.0	1567.1	1602.9	1670.5	1648.7	1690.4	1698.4
67.5°	10506.5	3030.8	1531.3	1724.2	1636.7	1525.4	1573.0	1599.0	1559.2	1640.7	1642.7
70°	9080.5	2366.6	1304.6	1515.4	1501.5	1481.6	1549.2	1509.5	1453.8	1553.2	1533.3
72.5°	7593.0	1807.8	1042.1	1238.9	1320.5	1416.0	1507.4	1394.1	1316.5	1346.4	1310.6
75°	5703.7	1336.4	837.3	970.5	1099.8	1322.5	1469.7	1254.9	1135.6	1107.7	1099.8
77.5°	2907.5	873.0	626.5	725.9	825.4	1195.2	1417.9	1091.8	940.7	896.9	877.0
80°	1038.1	542.9	441.5	501.2	556.9	1028.2	1238.9	902.9	729.8	721.9	729.8
82.5°	481.3	350.0	296.3	328.2	330.1	686.1	944.6	674.2	554.8	843.2	712.0
85°	206.8	175.0	167.1	163.1	151.1	306.2	531.0	362.0	564.8	252.6	232.7
87.5°	61.6	69.6	61.6	45.7	33.8	33.8	53.7	19.9	13.9	9.9	9.9
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)