

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: P648556

Luminaire Tested: **GALN-SA7B-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20524 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

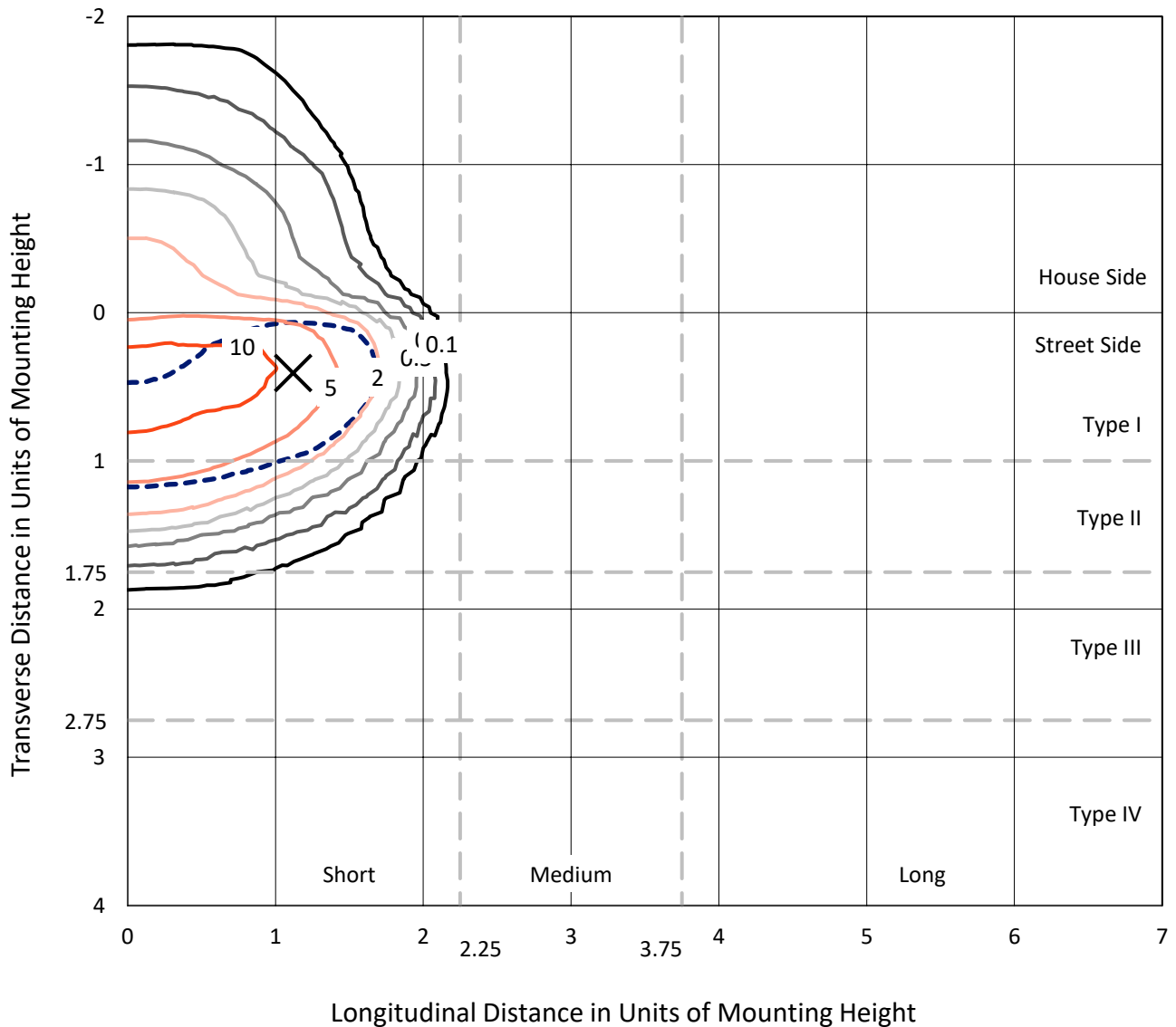
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

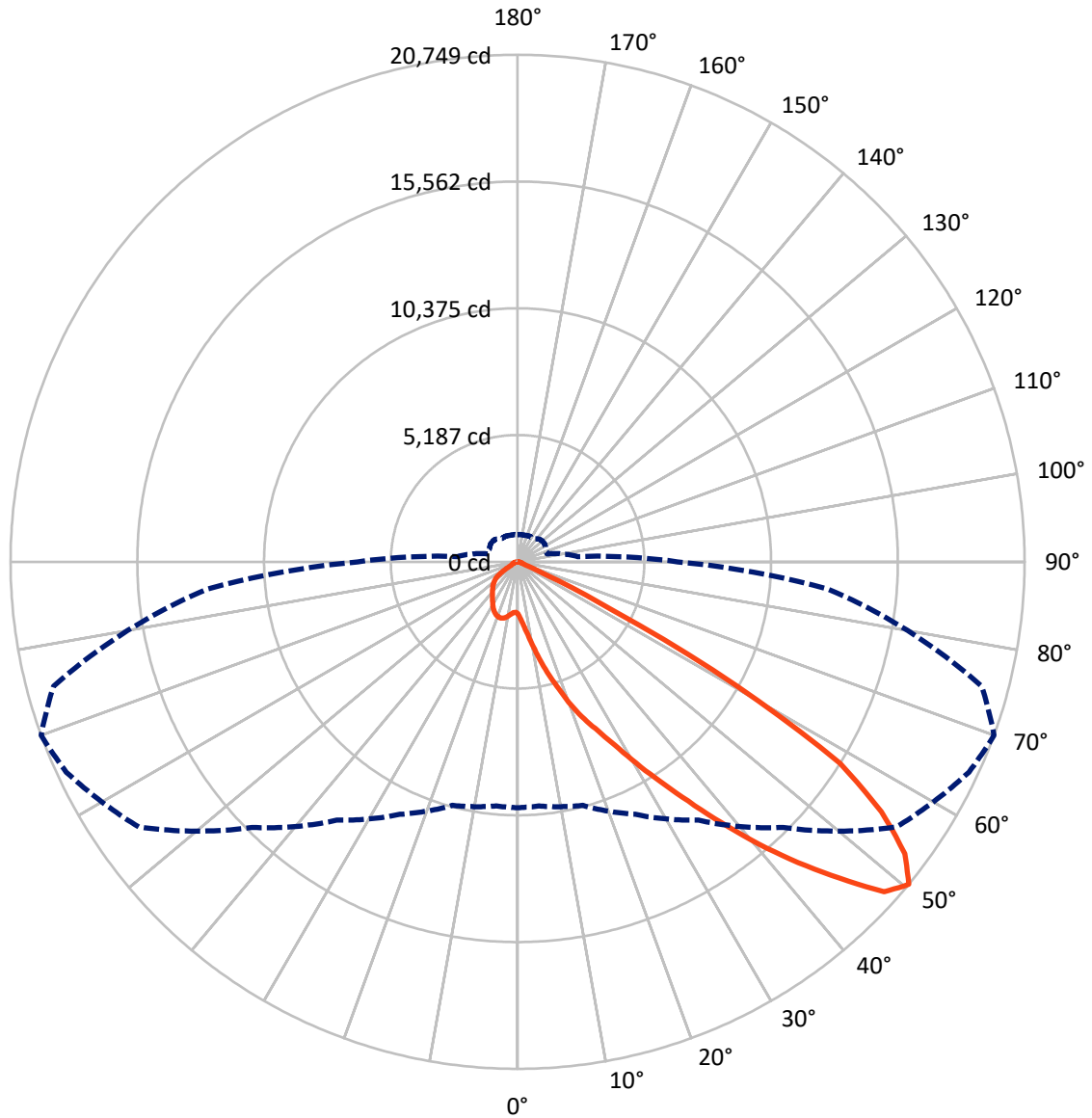
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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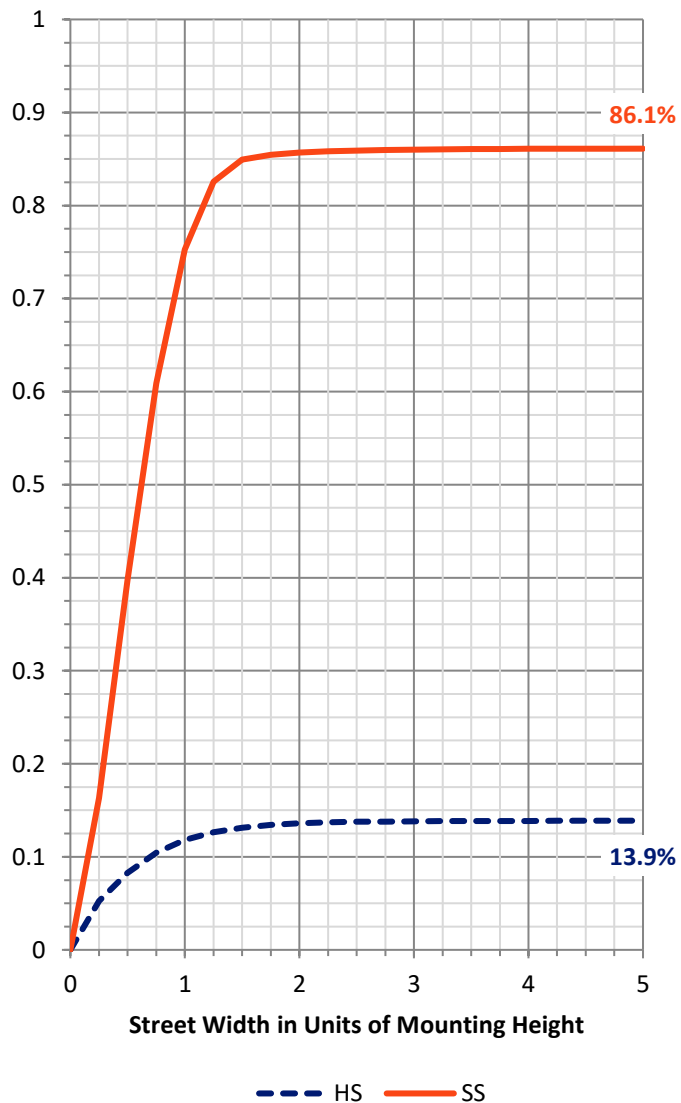
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2866.3	0.0	2866.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	17657.7	0.0	17657.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	20524.0	0.0	20524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	1.3
10°-20°	1195.8	5.8
20°-30°	2508.6	12.2
30°-40°	4323.9	21.1
40°-50°	6319.4	30.8
50°-60°	4921.8	24.0
60°-70°	833.9	4.1
70°-80°	114.6	0.6
80°-90°	29.7	0.1
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°	20524.0	100.0
0°-180°	20524.0	100.0

Coefficient of Utilization

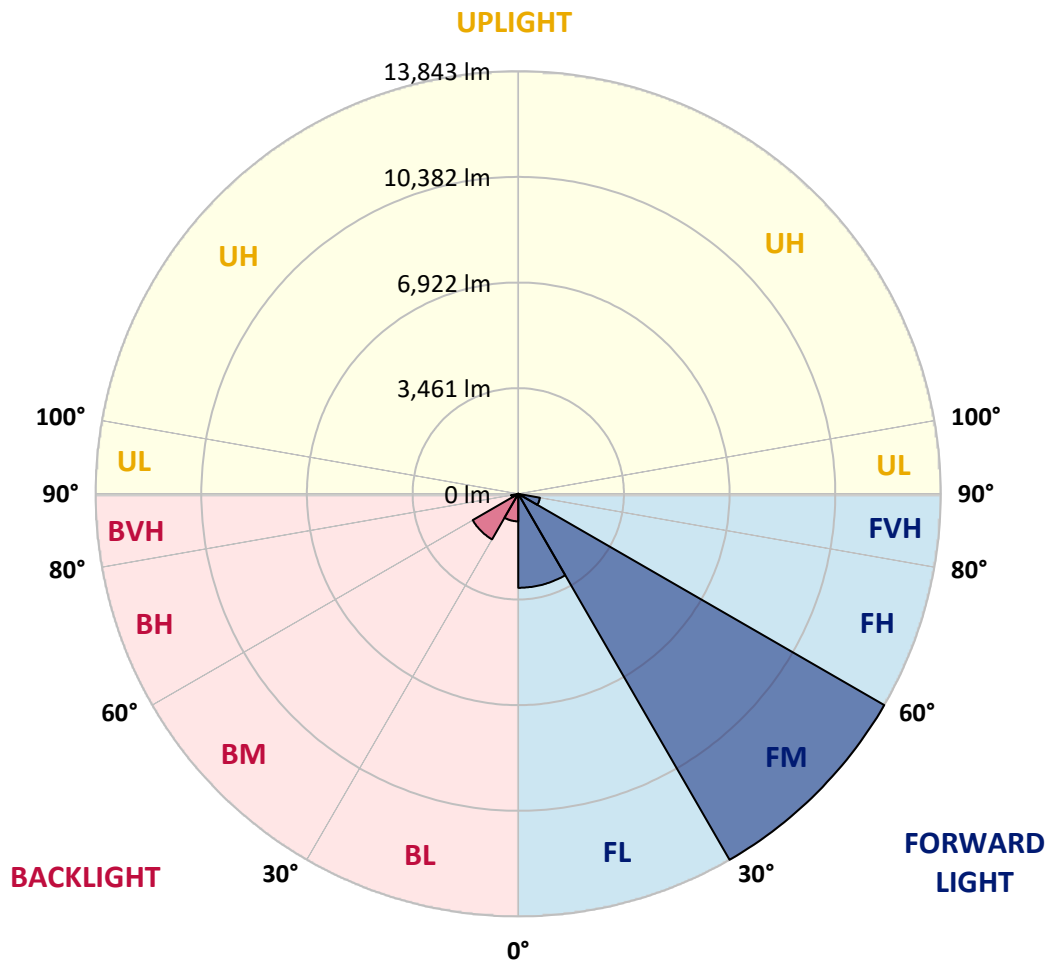


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3078.8	15.0			
FM (30°-60°)	13843.1	67.4			
FH (60°-80°)	722.0	3.5			G1/1800
FVH (80°-90°)	13.7	0.1			G1/100
BL (0°-30°)	902.0	4.4	B2/1000		
BM (30°-60°)	1722.0	8.4	B2/2500		
BH (60°-80°)	226.4	1.1	B1/500		G1/500
BVH (80°-90°)	15.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2125.8	2125.8	2125.8	2125.8	2125.8	2125.8	2125.8	2125.8	2125.8	2125.8	2125.8
2.5°	2783.9	2763.7	2719.8	2638.8	2605.0	2524.1	2476.8	2385.7	2328.3	2264.2	2193.3
5°	3921.1	3816.5	3752.4	3661.2	3394.7	3229.3	2956.0	2723.1	2615.1	2497.1	2335.1
7.5°	5095.4	5027.9	4940.2	4744.4	4562.2	4218.0	3749.0	3236.1	3016.7	2814.3	2493.7
10°	6067.2	5878.2	5868.1	5723.0	5523.9	5112.2	4548.7	3910.9	3519.5	3222.6	2719.8
12.5°	6745.5	6573.4	6651.0	6634.1	6448.5	6070.6	5419.3	4575.7	4167.4	3705.1	2952.6
15°	7362.9	7292.1	7268.5	7248.2	7174.0	6893.9	6310.1	5385.6	4795.0	4238.3	3215.8
17.5°	7967.0	7784.7	7872.5	7889.4	7882.6	7629.6	7082.9	6154.9	5459.8	4801.8	3492.5
20°	8503.5	8520.4	8402.3	8378.6	8358.4	8348.3	7815.1	6917.6	6276.4	5392.3	3853.6
22.5°	9191.9	9073.8	9178.4	9110.9	8979.3	8898.3	8490.0	7592.4	6985.1	6104.3	4221.4
25°	10005.2	10099.6	9853.3	9826.3	9681.2	9401.1	9033.3	8348.3	7666.7	6765.7	4619.5
27.5°	11007.3	10842.0	10777.9	10629.4	10366.2	10248.1	9816.2	9127.8	8490.0	7460.8	5004.2
30°	11867.9	11823.9	11503.4	11327.9	11098.5	11095.1	10491.0	10184.0	9563.1	8550.8	5534.0
32.5°	12569.7	12377.4	12259.3	12137.8	11952.2	12002.8	11493.3	11331.3	10707.1	9563.1	6158.3
35°	13038.8	12900.4	12829.5	12644.0	12589.9	12816.1	12603.5	12536.0	12023.0	10987.1	6890.6
37.5°	13187.2	13231.1	13217.6	12984.7	13099.5	13710.3	13983.6	13808.1	13538.1	12488.7	7683.6
40°	13318.8	13349.2	13281.7	13555.1	13882.4	14577.5	15566.2	15276.0	15174.8	14010.6	8787.0
42.5°	13393.1	13369.4	13369.4	13841.9	14337.9	15734.9	17094.8	16902.5	16824.9	15630.3	10062.5
45°	13072.5	12843.0	13089.3	13730.5	14729.3	16305.2	18316.3	18582.9	18471.5	17557.1	11554.0
47.5°	11874.6	12016.3	12154.7	13011.7	14253.5	16129.7	19065.4	19973.2	20179.0	19176.8	12532.5
50°	10062.5	10032.1	10319.0	11398.8	12907.1	15373.8	18920.3	20374.8	20749.3	19662.7	12738.4
52.5°	7319.1	7541.9	7852.2	8925.3	10713.8	13416.7	17047.6	19338.8	19838.2	19065.4	12603.5
55°	4261.9	4015.5	4714.1	5621.8	7309.0	10119.9	14412.1	17142.1	18066.6	17978.9	11921.8
57.5°	1707.5	1653.5	1893.1	2551.1	3813.1	6273.0	10480.9	14084.8	15566.2	16467.1	10477.6
60°	749.1	732.3	860.4	1039.4	1559.0	2891.9	5733.1	8760.0	10305.5	11506.7	7211.1
62.5°	539.9	533.1	597.3	661.4	823.3	1258.7	2409.4	3529.6	4400.2	5314.7	3229.3
65°	435.3	452.2	496.0	529.8	607.4	698.5	850.3	982.0	1204.6	1248.6	712.0
67.5°	354.3	367.8	408.3	445.4	458.9	378.0	391.4	344.2	344.2	307.1	246.3
70°	259.8	263.2	310.5	354.3	283.4	151.8	266.6	266.6	239.6	229.5	209.2
72.5°	192.3	195.8	232.9	219.3	111.3	94.5	195.8	216.0	195.8	185.6	168.7
75°	141.7	145.1	121.4	50.6	47.2	60.8	114.7	148.5	141.7	138.4	128.3
77.5°	27.0	20.3	16.8	23.6	33.7	50.6	74.2	91.1	94.5	101.2	94.5
80°	3.4	3.4	10.1	20.3	37.1	54.0	77.6	87.7	91.1	94.5	87.7
82.5°	0.0	3.4	10.1	20.3	37.1	50.6	67.5	77.6	84.3	87.7	84.3
85°	0.0	3.4	6.7	16.8	30.4	37.1	33.7	23.6	20.3	23.6	16.8
87.5°	0.0	0.0	3.4	3.4	6.7	6.7	6.7	6.7	6.7	6.7	6.7
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°	2125.8	2125.8	2125.8	2125.8	2125.8	2125.8	2125.8	2125.8	2125.8	2125.8	2125.8
2.5°	2152.9	2139.4	2092.2	2041.5	1997.7	2017.9	1997.7	1980.8	1987.6	1980.8	1974.0
5°	2271.0	2210.3	2109.0	2065.2	2028.0	2024.7	2014.5	2011.1	2014.5	2014.5	1984.1
7.5°	2382.4	2284.5	2176.5	2129.3	2085.4	2088.7	2065.2	2065.2	2061.8	2044.9	2038.1
10°	2551.1	2419.5	2281.1	2196.7	2142.8	2132.7	2109.0	2085.4	2085.4	2085.4	2051.6
12.5°	2736.7	2571.3	2382.4	2284.5	2220.4	2169.8	2132.7	2125.8	2088.7	2082.0	2065.2
15°	2898.6	2689.4	2449.9	2314.9	2233.9	2166.4	2109.0	2071.9	2055.0	2044.9	2031.4
17.5°	3057.2	2790.6	2487.0	2314.9	2227.1	2149.5	2088.7	2055.0	2014.5	2021.2	1994.3
20°	3269.8	2898.6	2497.1	2271.0	2163.0	2088.7	2007.8	1990.9	1967.3	1947.0	1953.8
22.5°	3475.7	2976.3	2466.7	2217.0	2061.8	1974.0	1933.5	1913.3	1903.2	1886.3	1862.7
25°	3661.2	3060.6	2419.5	2119.1	1953.8	1889.7	1852.6	1849.2	1825.6	1825.6	1781.7
27.5°	3850.2	3091.0	2338.5	2004.4	1859.3	1822.2	1805.3	1798.6	1788.5	1764.8	1734.4
30°	4066.2	3101.1	2220.4	1886.3	1774.9	1734.4	1758.1	1774.9	1731.1	1687.2	1700.7
32.5°	4245.0	3077.5	2078.6	1774.9	1714.2	1693.9	1741.2	1758.1	1707.5	1660.2	1636.6
35°	4461.0	3020.1	1940.3	1687.2	1653.5	1693.9	1734.4	1734.4	1633.2	1575.9	1562.3
37.5°	4788.3	2956.0	1812.1	1613.0	1589.3	1673.7	1727.7	1690.6	1532.0	1461.2	1444.2
40°	5139.2	2915.5	1687.2	1538.8	1555.6	1640.0	1670.4	1555.6	1393.7	1349.7	1336.3
42.5°	5648.8	2834.5	1575.9	1474.6	1525.2	1592.7	1592.7	1386.8	1326.2	1302.5	1299.2
45°	6283.2	2777.1	1478.0	1420.6	1481.4	1498.3	1444.2	1299.2	1255.3	1248.6	1251.9
47.5°	6593.6	2665.8	1376.7	1356.5	1400.4	1403.8	1262.0	1228.3	1191.2	1181.1	1174.3
50°	6546.3	2466.7	1245.1	1272.1	1332.9	1299.2	1150.7	1157.4	1123.7	1120.3	1103.4
52.5°	6215.7	2152.9	1113.6	1177.6	1245.1	1147.3	1059.6	1052.8	1052.8	1009.0	992.1
55°	5510.4	1734.4	954.9	1035.9	1116.9	965.0	941.5	934.7	917.8	877.4	867.3
57.5°	4363.1	1272.1	718.7	806.5	948.2	820.0	816.6	786.2	742.4	712.0	712.0
60°	2594.9	732.3	452.2	492.7	627.7	664.8	739.0	725.5	651.3	604.0	590.5
62.5°	1184.4	378.0	286.8	293.5	337.5	431.9	580.4	671.5	566.9	485.9	479.2
65°	398.2	280.1	236.2	226.1	232.9	259.8	347.6	475.8	452.2	374.6	361.0
67.5°	243.0	249.7	222.7	205.9	205.9	202.5	199.1	216.0	266.6	259.8	263.2
70°	209.2	229.5	205.9	185.6	178.8	168.7	141.7	118.1	101.2	118.1	124.9
72.5°	168.7	182.2	175.5	158.6	141.7	128.3	101.2	77.6	57.4	50.6	50.6
75°	124.9	135.0	141.7	121.4	108.0	91.1	74.2	50.6	30.4	20.3	20.3
77.5°	91.1	101.2	104.6	94.5	81.0	64.1	47.2	33.7	16.8	6.7	6.7
80°	77.6	91.1	101.2	94.5	84.3	60.8	43.8	23.6	13.5	3.4	3.4
82.5°	74.2	91.1	101.2	91.1	81.0	57.4	43.8	27.0	10.1	3.4	3.4
85°	16.8	23.6	30.4	37.1	43.8	43.8	33.7	20.3	10.1	3.4	3.4
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	3.4	3.4	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)