

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: P647952

Luminaire Tested: **GALN-SA5A-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15757.9 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

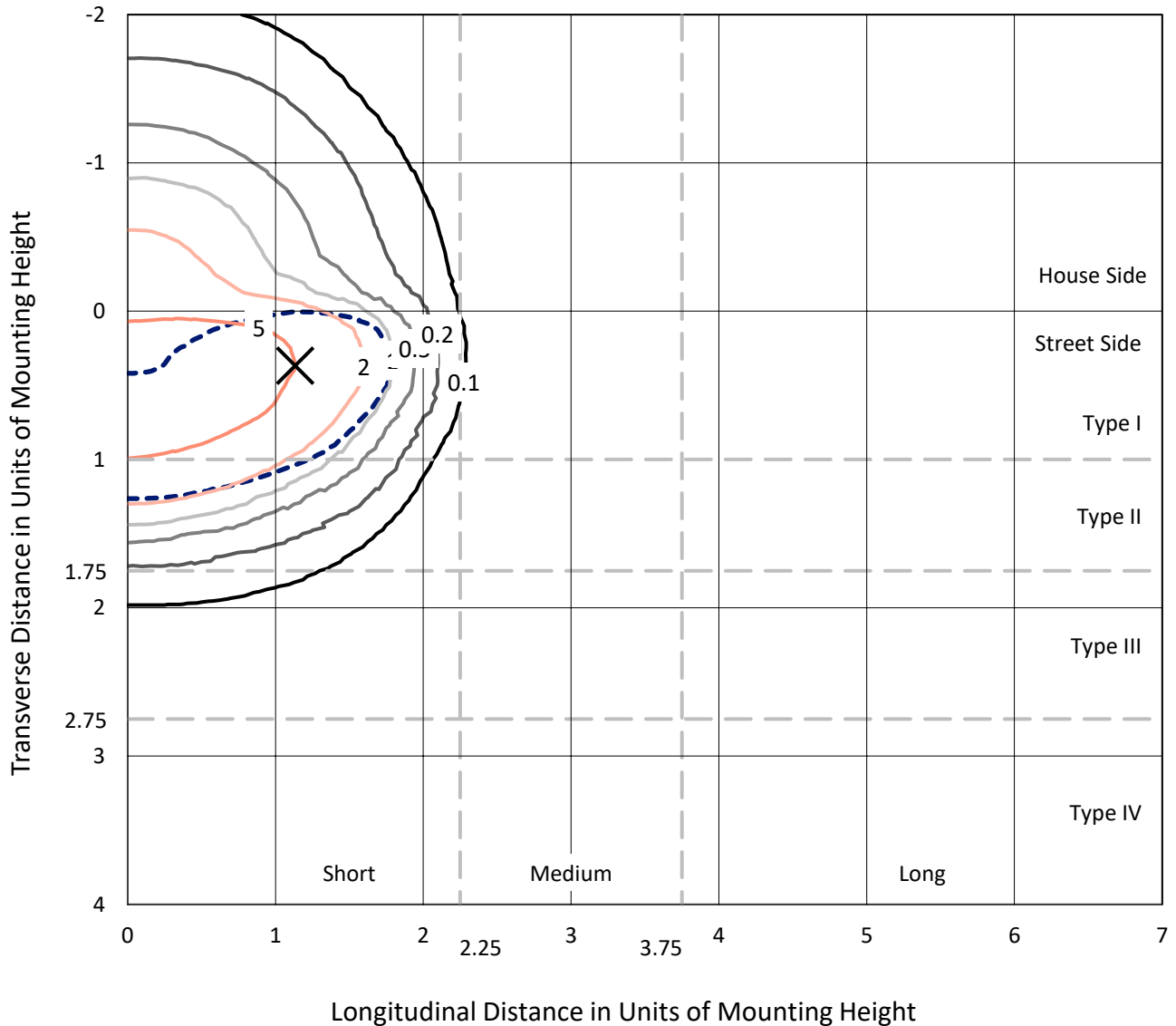
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

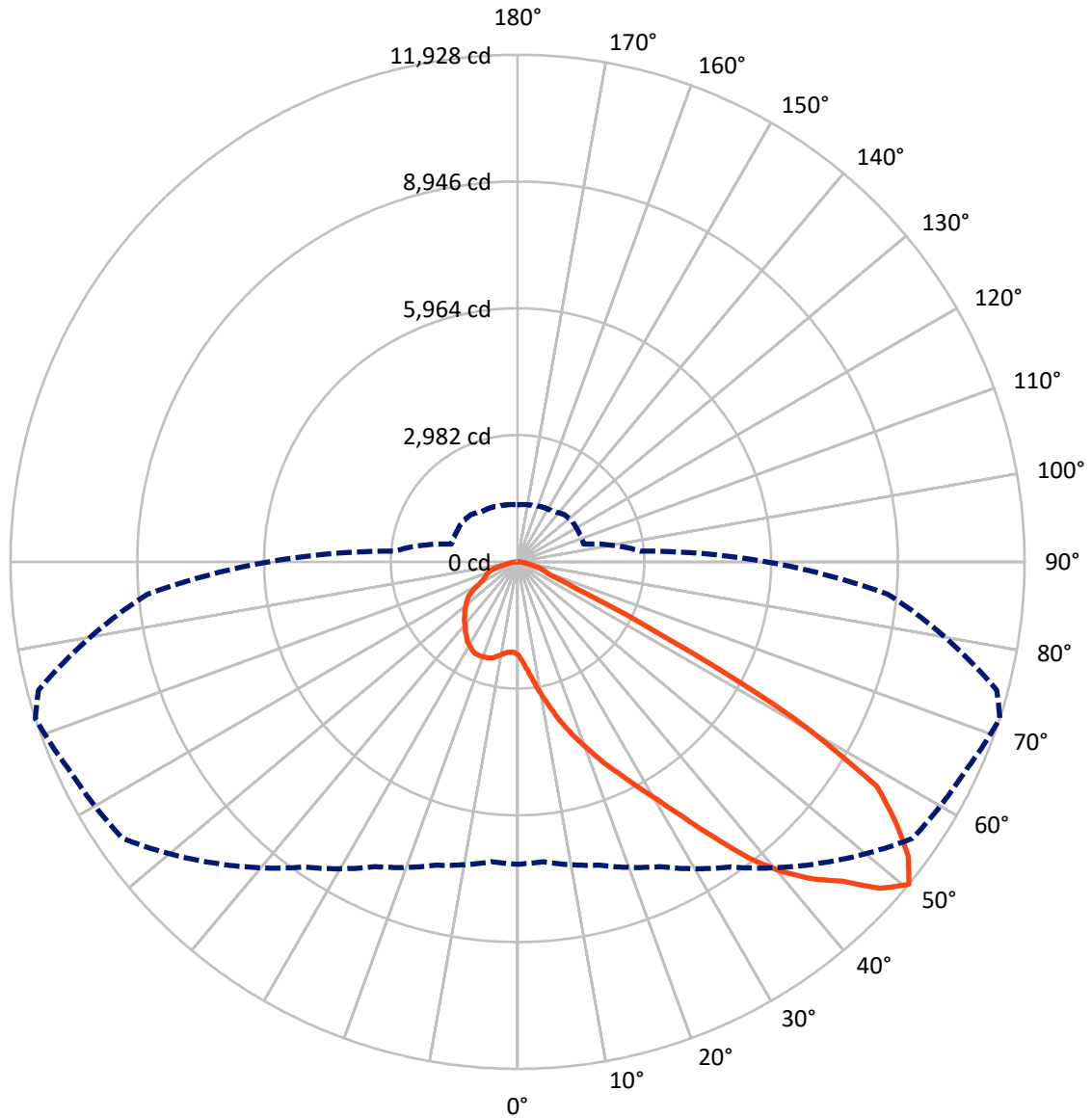
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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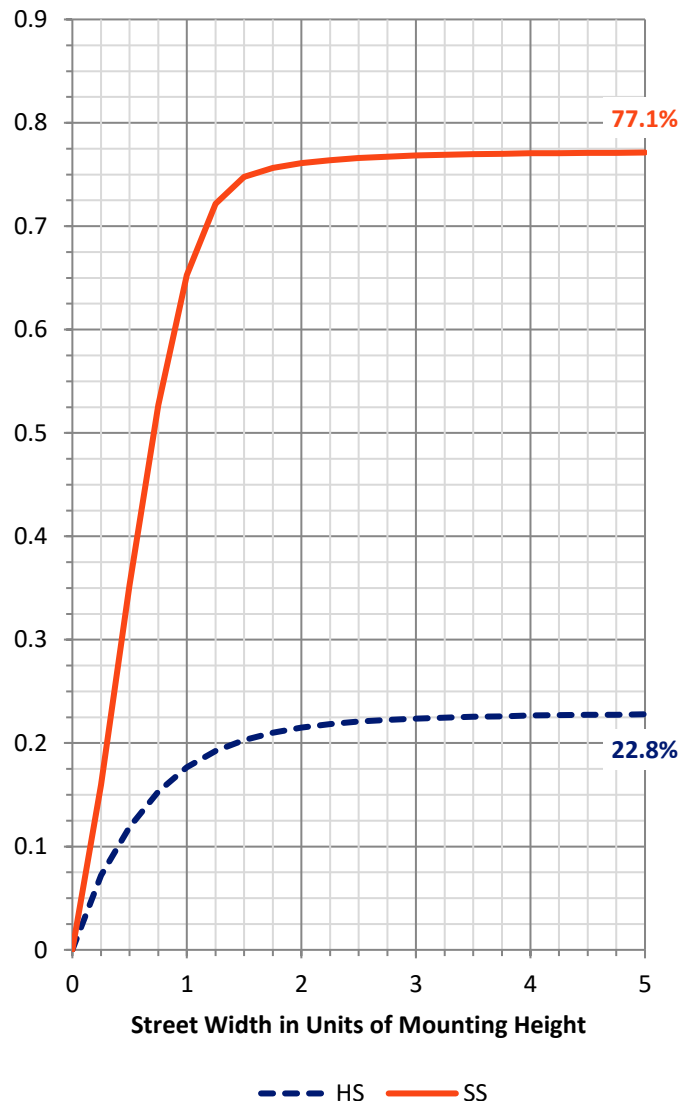
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3610.2	0.0	3610.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	12147.6	0.0	12147.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	15757.9	0.0	15757.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.0	1.6
10°-20°	964.6	6.1
20°-30°	1870.3	11.9
30°-40°	3098.4	19.7
40°-50°	4335.3	27.5
50°-60°	3657.4	23.2
60°-70°	1114.8	7.1
70°-80°	391.1	2.5
80°-90°	68.0	0.4
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°	15757.9	100.0
0°-180°	15757.9	100.0

Coefficient of Utilization



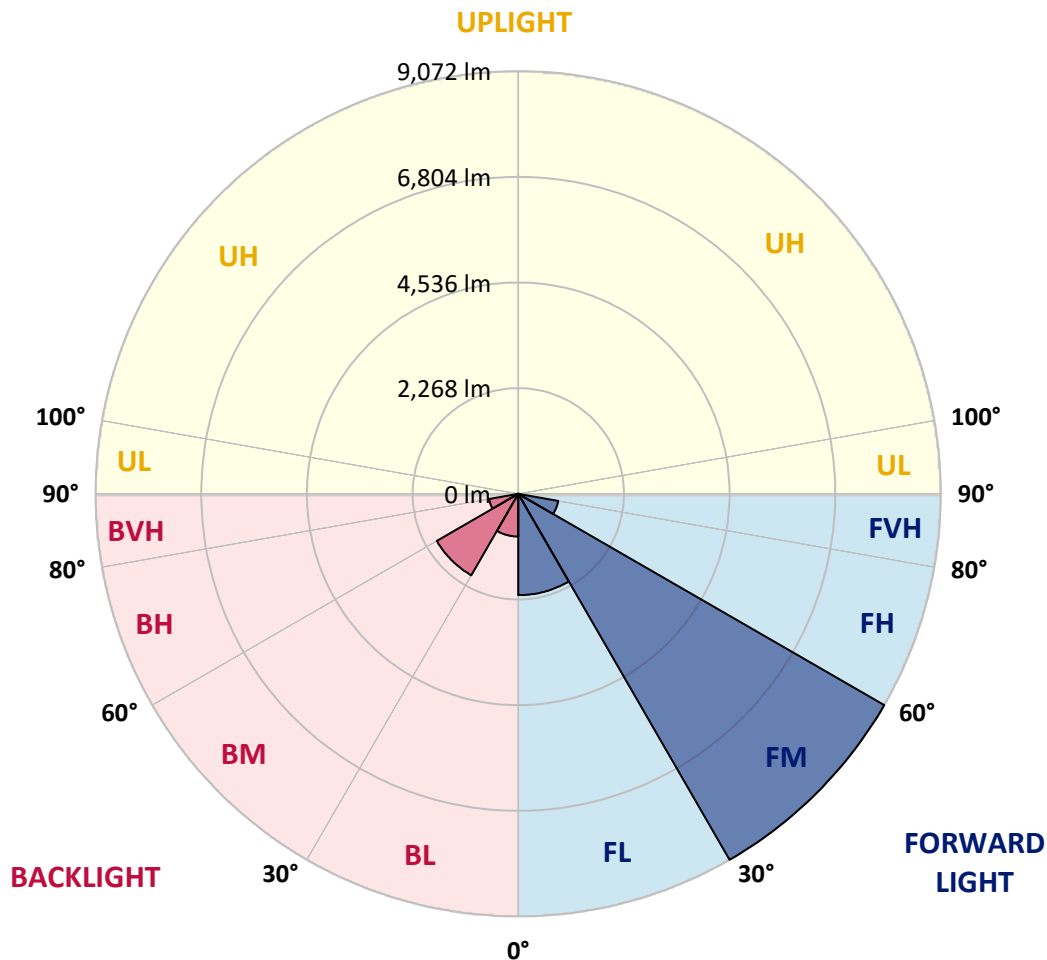
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2175.2	13.8			
FM (30°-60°)	9072.2	57.6			
FH (60°-80°)	869.8	5.5			G1/1800
FVH (80°-90°)	30.5	0.2			G1/100
BL (0°-30°)	917.7	5.8	B2/1000		
BM (30°-60°)	2018.9	12.8	B2/2500		
BH (60°-80°)	636.0	4.0	B2/1000		G2/1000
BVH (80°-90°)	37.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7
2.5°	2821.5	2803.9	2751.3	2733.8	2671.4	2558.3	2519.2	2404.2	2355.5	2310.6	2258.0
5°	3568.3	3486.4	3480.6	3381.2	3236.8	3153.0	2903.4	2735.7	2581.6	2503.6	2359.3
7.5°	4044.1	4046.0	4046.0	3964.2	3849.1	3636.6	3412.3	3110.1	2878.1	2763.0	2517.3
10°	4496.5	4457.5	4436.0	4428.2	4350.2	4143.6	3903.7	3529.3	3211.5	3077.0	2636.3
12.5°	4816.2	4783.1	4831.8	4806.5	4749.9	4615.4	4389.2	3962.2	3564.4	3383.0	2827.3
15°	4968.3	4991.7	5030.7	5100.9	5075.6	5024.9	4775.3	4406.7	3944.6	3739.9	2997.0
17.5°	5202.3	5138.0	5184.8	5272.5	5342.7	5319.3	5177.0	4728.5	4321.0	4069.4	3225.1
20°	5366.1	5329.1	5352.4	5453.8	5506.5	5639.1	5565.0	5149.6	4681.7	4416.5	3494.2
22.5°	5834.1	5779.5	5703.5	5719.0	5738.5	5832.1	5849.7	5611.8	5100.9	4820.1	3749.6
25°	6411.3	6360.5	6270.9	6179.2	6122.7	6105.1	6165.6	5974.4	5502.6	5212.0	4024.6
27.5°	7046.9	6961.1	6904.6	6715.4	6563.3	6539.9	6510.7	6407.4	5978.4	5664.5	4334.6
30°	7665.0	7596.8	7520.7	7218.5	7060.5	7035.3	6890.9	6920.2	6495.1	6146.1	4685.6
32.5°	8133.0	8138.9	7965.3	7737.2	7589.0	7454.5	7401.8	7485.6	7158.0	6877.2	5077.5
35°	8511.3	8528.8	8363.1	8156.4	7996.5	8090.1	8066.7	8105.7	7949.7	7606.5	5533.8
37.5°	8879.8	8792.1	8614.6	8515.2	8431.3	8585.4	8784.2	8817.4	8846.6	8443.0	6064.2
40°	8940.3	8948.0	8844.7	8914.9	8809.6	9041.7	9503.8	9460.9	9579.8	9226.9	6639.4
42.5°	8854.5	8872.0	8913.0	9012.4	9265.9	9544.7	10231.1	10055.6	10199.9	9885.9	7199.0
45°	8714.1	8641.9	8692.6	9070.9	9509.6	10129.7	10896.0	10759.5	10712.7	10449.4	7865.9
47.5°	8043.3	8117.4	8275.4	8741.4	9400.5	10231.1	11367.9	11336.7	11477.1	11291.8	8472.3
50°	7113.2	7084.0	7388.2	7912.7	8762.8	10032.2	11342.5	11625.3	11927.5	11670.1	8743.3
52.5°	5327.1	5483.1	5744.4	6395.6	7608.5	8948.0	10788.8	11260.6	11506.3	11451.7	8524.9
55°	3367.4	3414.3	3572.2	4346.3	5438.2	7181.4	9248.3	10342.3	10781.0	10985.7	8324.1
57.5°	1635.9	1548.2	1741.2	2363.3	3141.3	4829.9	7132.7	9008.5	9962.0	10332.5	7887.3
60°	854.0	887.2	963.2	1185.5	1624.3	2507.6	4445.8	6003.7	7460.3	8029.7	5978.4
62.5°	707.8	719.5	770.2	881.3	1080.2	1442.9	2269.7	2926.8	3804.2	4317.1	3400.6
65°	600.6	606.4	661.0	735.1	861.8	1015.9	1168.0	1222.6	1479.9	1518.9	1209.0
67.5°	501.1	507.0	565.5	635.6	717.5	758.5	797.5	793.6	822.9	811.2	809.2
70°	386.1	391.9	452.3	526.5	567.4	544.0	664.9	692.3	703.9	713.6	729.3
72.5°	278.8	290.6	337.3	390.0	368.6	423.1	547.9	588.9	604.5	610.3	629.8
75°	202.8	206.7	218.4	202.8	234.0	294.4	386.1	436.8	456.3	462.1	491.4
77.5°	89.7	91.6	93.6	117.0	150.2	183.3	230.1	271.0	298.3	306.2	313.9
80°	46.8	48.8	60.4	79.9	107.3	134.5	167.7	191.1	208.7	210.6	218.4
82.5°	29.3	31.2	42.9	56.5	76.0	99.4	122.9	142.3	156.0	157.9	159.9
85°	13.6	17.5	25.4	35.1	50.7	64.4	66.3	56.5	60.4	62.4	58.5
87.5°	3.9	5.9	7.8	5.9	7.8	7.8	9.8	11.7	11.7	11.7	13.6
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°	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7
2.5°	2228.7	2211.2	2142.9	2117.6	2051.3	2063.0	2027.9	2025.9	2018.1	2016.2	2014.3
5°	2283.3	2228.7	2146.8	2084.4	2047.4	2043.5	2018.1	2018.1	2025.9	2031.8	2018.1
7.5°	2373.0	2310.6	2172.2	2113.7	2080.5	2074.7	2057.2	2043.5	2061.0	2055.2	2039.6
10°	2476.4	2367.2	2220.9	2170.2	2115.7	2102.0	2102.0	2107.8	2078.6	2088.3	2072.8
12.5°	2591.4	2445.2	2283.3	2224.8	2160.5	2152.7	2148.8	2105.9	2121.5	2113.7	2074.7
15°	2737.7	2534.9	2363.3	2263.8	2209.2	2174.2	2123.4	2115.7	2105.9	2086.4	2068.8
17.5°	2895.6	2632.4	2400.3	2275.6	2193.7	2168.3	2129.3	2088.3	2059.1	2063.0	2049.3
20°	3030.1	2722.0	2414.0	2287.2	2181.9	2133.2	2072.8	2047.4	2016.2	2014.3	2012.3
22.5°	3190.0	2842.9	2433.5	2256.1	2146.8	2096.2	2055.2	2010.4	1988.9	1961.6	1975.3
25°	3381.2	2889.7	2437.4	2238.4	2121.5	2031.8	2010.4	1961.6	1953.8	1914.8	1922.6
27.5°	3519.6	2915.1	2406.2	2183.9	2063.0	1994.8	1955.8	1920.6	1907.0	1877.7	1870.0
30°	3704.8	2954.1	2339.8	2115.7	2004.5	1928.5	1905.0	1897.2	1858.2	1827.1	1823.1
32.5°	3915.4	2979.5	2297.0	2045.4	1944.0	1885.5	1897.2	1860.2	1811.5	1784.1	1776.4
35°	4083.1	2989.2	2189.7	1965.5	1903.1	1866.0	1852.4	1844.6	1774.4	1749.1	1729.6
37.5°	4338.5	2967.7	2100.0	1909.0	1858.2	1844.6	1832.9	1780.2	1700.3	1663.2	1635.9
40°	4636.8	2961.9	1985.0	1829.0	1815.4	1831.0	1795.9	1714.0	1602.8	1561.9	1542.4
42.5°	4923.5	3002.8	1912.9	1786.1	1768.6	1774.4	1725.7	1602.8	1548.2	1524.8	1493.7
45°	5403.2	3088.6	1793.9	1719.8	1712.0	1708.1	1649.6	1520.9	1489.7	1460.5	1454.7
47.5°	5836.0	3032.1	1717.8	1651.6	1659.3	1637.9	1513.1	1472.2	1437.0	1407.8	1398.0
50°	5861.4	2897.6	1610.6	1598.9	1600.8	1563.8	1444.9	1417.5	1372.8	1353.3	1339.6
52.5°	5728.8	2677.2	1511.2	1515.1	1520.9	1460.5	1361.0	1341.5	1304.5	1277.2	1269.4
55°	5356.3	2334.0	1413.7	1429.3	1444.9	1329.8	1298.6	1249.9	1220.6	1181.6	1183.6
57.5°	4718.7	1879.7	1277.2	1302.5	1335.6	1209.0	1185.5	1125.1	1082.2	1051.0	1047.1
60°	3162.7	1337.6	1072.5	1082.2	1156.3	1105.6	1103.6	1043.2	984.7	957.4	941.8
62.5°	1866.0	1021.7	926.2	916.4	914.5	943.7	992.5	971.1	895.0	842.4	857.9
65°	976.9	883.3	861.8	828.7	809.2	801.4	838.4	848.2	797.5	741.0	737.0
67.5°	820.9	820.9	803.4	791.7	764.4	731.2	707.8	676.6	668.8	653.2	633.7
70°	746.8	766.3	760.4	733.1	709.8	672.7	612.2	561.6	512.8	495.2	507.0
72.5°	651.3	670.8	670.8	657.1	625.9	569.4	510.9	452.3	411.5	380.2	376.3
75°	501.1	510.9	534.2	518.7	477.7	442.6	382.2	321.7	282.7	253.5	247.7
77.5°	319.8	335.4	335.4	333.4	304.2	271.0	232.0	189.2	159.9	138.4	132.6
80°	212.5	222.3	230.1	222.3	202.8	177.4	148.2	118.9	97.5	79.9	76.0
82.5°	156.0	167.7	173.5	165.8	146.3	126.8	105.3	83.9	62.4	48.8	44.9
85°	60.4	62.4	70.2	83.9	81.9	79.9	64.4	46.8	35.1	25.4	23.4
87.5°	15.6	13.6	15.6	15.6	13.6	11.7	11.7	11.7	11.7	5.9	7.8
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)