

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: P648116

Luminaire Tested: **GALN-SA8A-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648116
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-SA8A-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA 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: 19123.2 lumens
Efficiency: N/A
Efficacy: 78.4 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

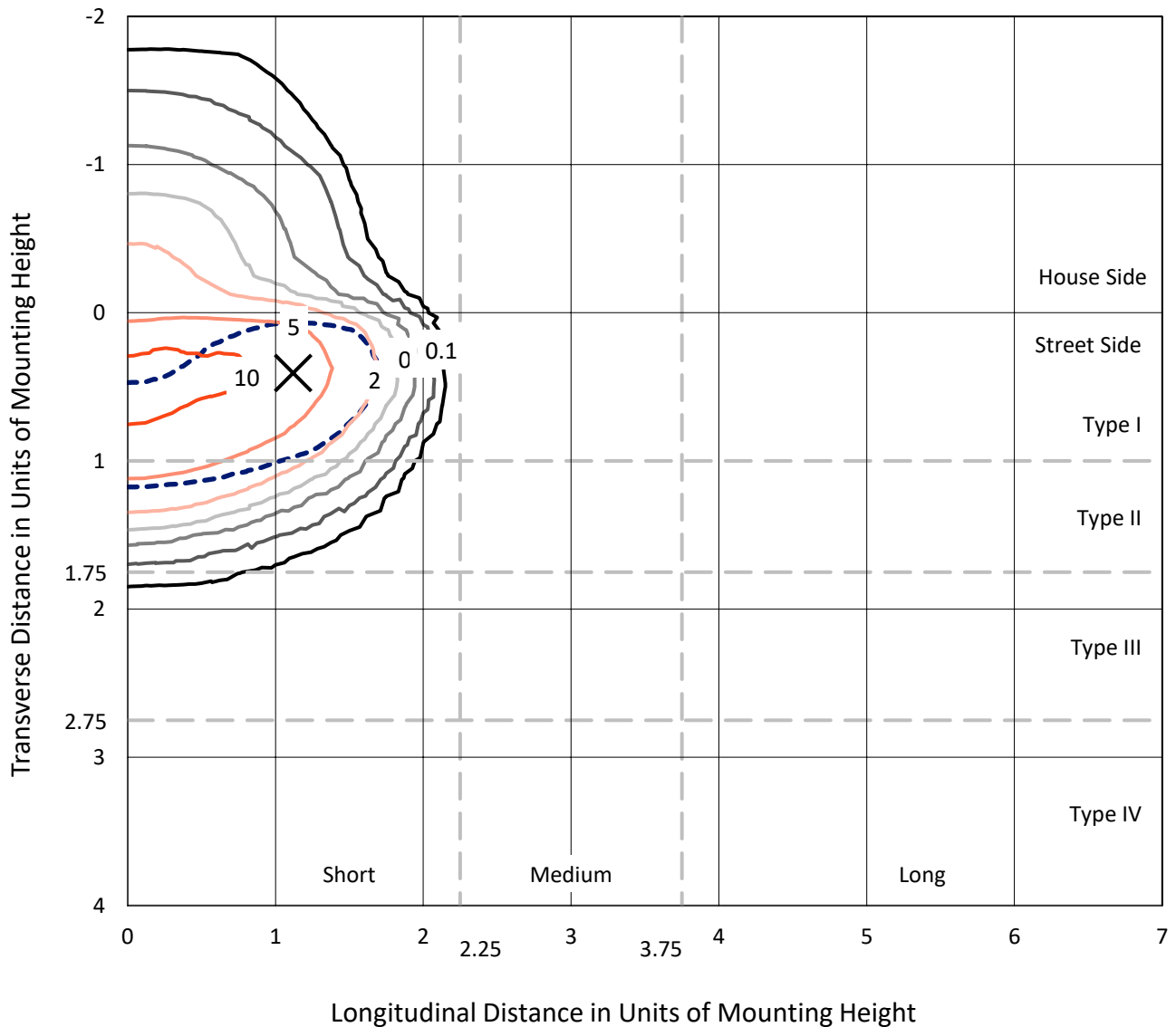
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

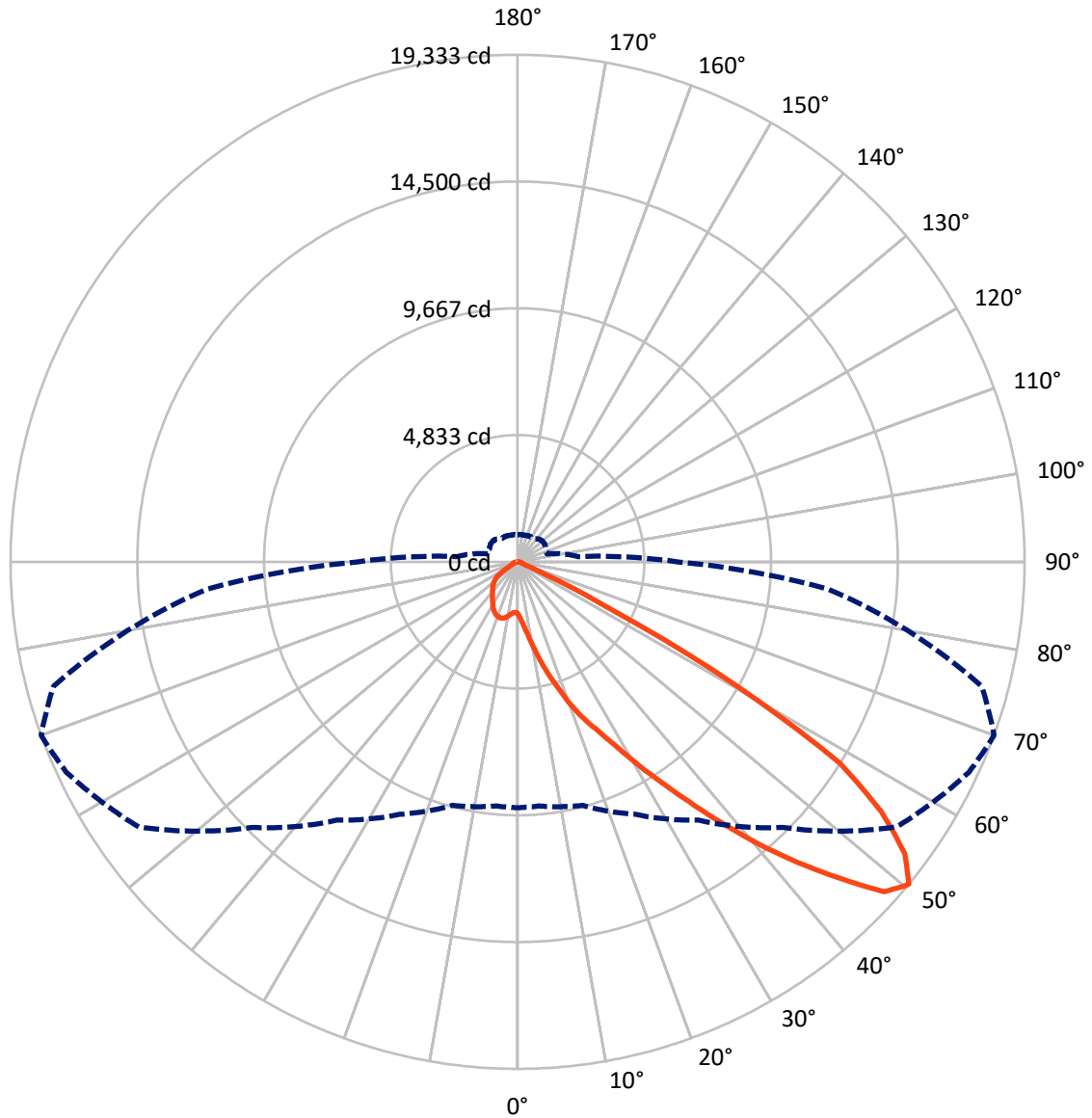
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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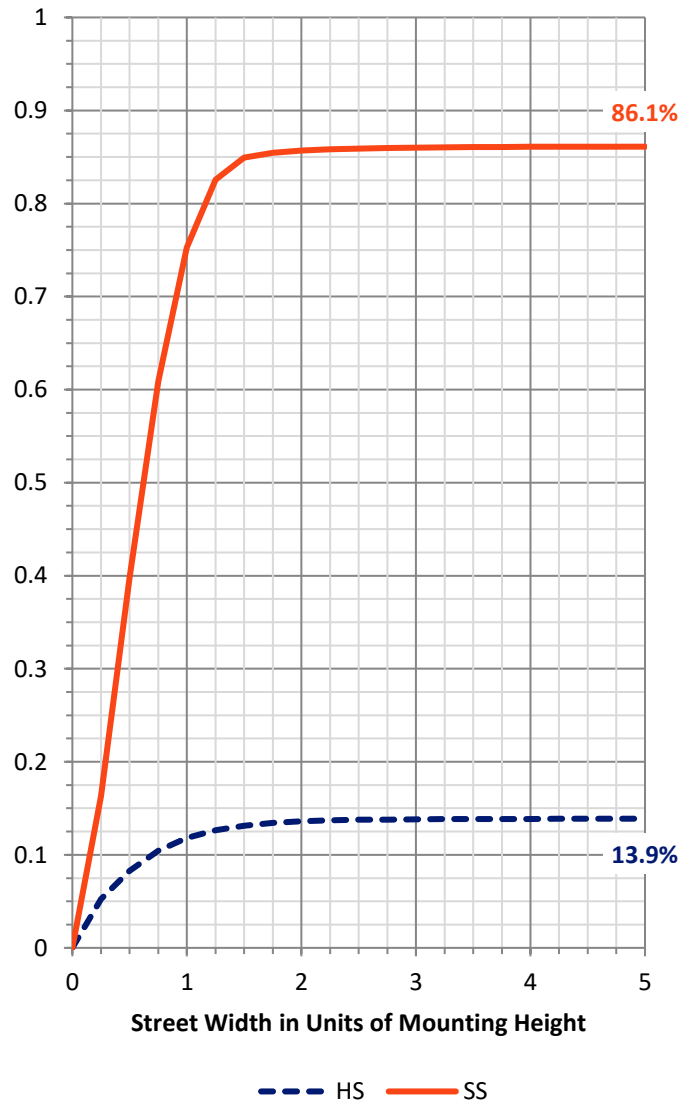
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2670.7	0.0	2670.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	16452.5	0.0	16452.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	19123.2	0.0	19123.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.6	1.3
10°-20°	1114.2	5.8
20°-30°	2337.4	12.2
30°-40°	4028.8	21.1
40°-50°	5888.1	30.8
50°-60°	4585.8	24.0
60°-70°	777.0	4.1
70°-80°	106.7	0.6
80°-90°	27.6	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°	19123.2	100.0
0°-180°	19123.2	100.0

Coefficient of Utilization

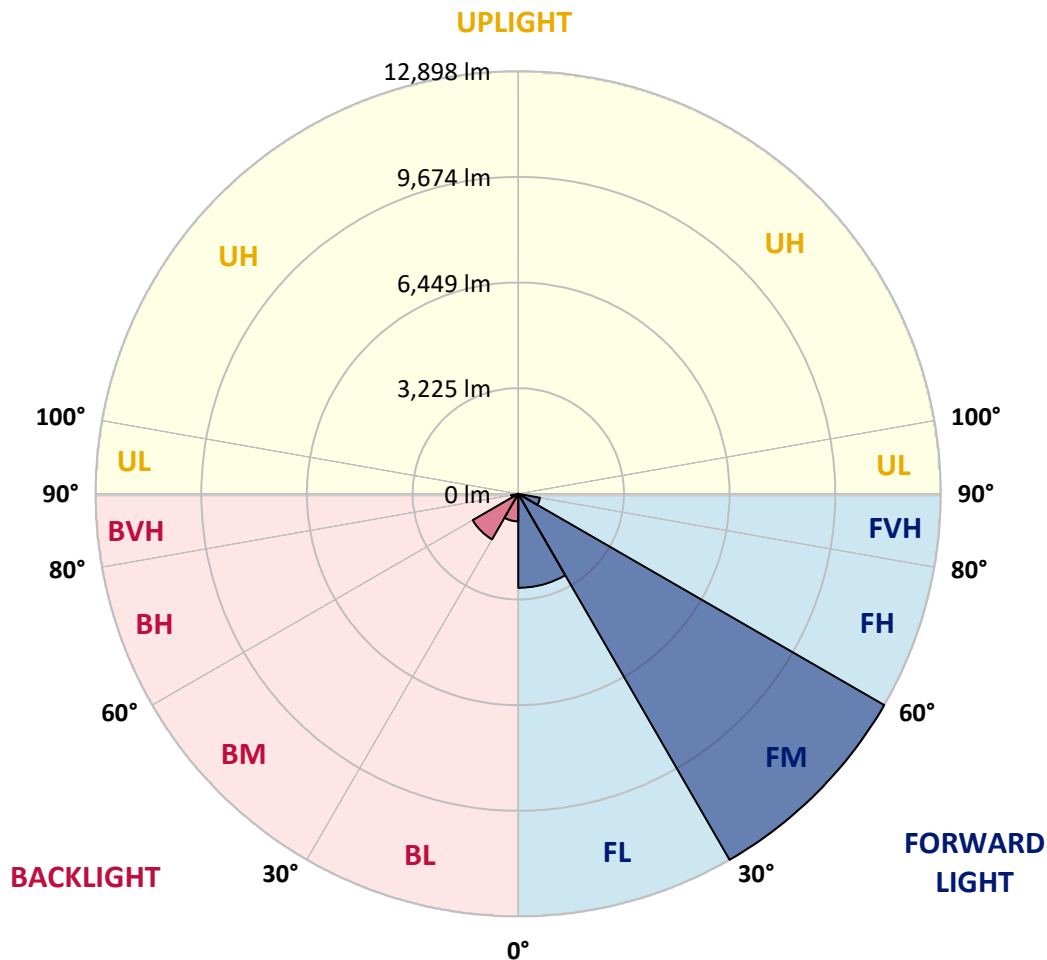


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2868.7	15.0			
FM (30°-60°)	12898.3	67.4			
FH (60°-80°)	672.8	3.5			G1/1800
FVH (80°-90°)	12.8	0.1			G1/100
BL (0°-30°)	840.4	4.4	B2/1000		
BM (30°-60°)	1604.5	8.4	B2/2500		
BH (60°-80°)	211.0	1.1	B1/500		G1/500
BVH (80°-90°)	14.9	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°	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8
2.5°	2593.9	2575.1	2534.2	2458.7	2427.2	2351.8	2307.8	2222.9	2169.5	2109.7	2043.7
5°	3653.5	3556.0	3496.3	3411.4	3163.0	3008.9	2754.2	2537.3	2436.7	2326.6	2175.7
7.5°	4747.6	4684.7	4602.9	4420.6	4250.8	3930.1	3493.1	3015.2	2810.8	2622.2	2323.5
10°	5653.1	5477.0	5467.6	5332.4	5146.9	4763.3	4238.2	3644.0	3279.3	3002.6	2534.2
12.5°	6285.1	6124.7	6197.1	6181.3	6008.4	5656.2	5049.4	4263.4	3883.0	3452.2	2751.1
15°	6860.4	6794.4	6772.4	6753.5	6684.4	6423.4	5879.5	5018.0	4467.8	3949.0	2996.3
17.5°	7423.2	7253.5	7335.2	7351.0	7344.6	7108.9	6599.5	5734.8	5087.2	4474.1	3254.1
20°	7923.2	7938.8	7828.8	7806.8	7788.0	7778.6	7281.7	6445.4	5848.1	5024.3	3590.6
22.5°	8564.5	8454.5	8552.0	8489.1	8366.4	8291.0	7910.6	7074.2	6508.3	5687.7	3933.2
25°	9322.2	9410.3	9180.8	9155.6	9020.5	8759.5	8416.8	7778.6	7143.4	6303.9	4304.3
27.5°	10256.0	10102.0	10042.3	9903.9	9658.7	9548.7	9146.2	8504.8	7910.6	6951.6	4662.7
30°	11057.8	11017.0	10718.3	10554.8	10341.0	10337.8	9775.1	9488.9	8910.4	7967.2	5156.4
32.5°	11711.8	11532.6	11422.6	11309.3	11136.5	11183.6	10708.9	10557.9	9976.3	8910.4	5738.0
35°	12148.9	12019.9	11953.9	11780.9	11730.7	11941.3	11743.3	11680.3	11202.5	10237.2	6420.3
37.5°	12287.1	12328.0	12315.5	12098.5	12205.4	12774.5	13029.2	12865.7	12614.1	11636.3	7159.1
40°	12409.8	12438.1	12375.2	12629.9	12934.8	13582.5	14503.7	14233.4	14139.0	13054.3	8187.3
42.5°	12479.0	12457.0	12457.0	12897.1	13359.3	14661.0	15928.0	15748.9	15676.5	14563.5	9375.7
45°	12180.3	11966.5	12196.0	12793.4	13724.0	15192.3	17066.2	17314.6	17210.8	16358.8	10765.4
47.5°	11064.1	11196.2	11325.1	12123.7	13280.7	15028.8	17764.2	18610.0	18801.8	17868.0	11677.2
50°	9375.7	9347.5	9614.7	10620.8	12026.2	14324.6	17629.0	18984.1	19333.1	18320.7	11869.0
52.5°	6819.5	7027.1	7316.4	8316.2	9982.5	12501.0	15884.0	18018.9	18484.2	17764.2	11743.3
55°	3971.0	3741.5	4392.3	5238.1	6810.1	9429.2	13428.4	15972.1	16833.6	16751.8	11108.1
57.5°	1590.9	1540.6	1763.9	2377.0	3552.9	5844.9	9765.6	13123.5	14503.7	15343.3	9762.4
60°	698.0	682.3	801.7	968.4	1452.5	2694.5	5341.9	8162.1	9602.1	10721.4	6718.9
62.5°	503.1	496.7	556.5	616.2	767.2	1172.8	2244.9	3288.8	4099.9	4952.0	3008.9
65°	405.6	421.3	462.2	493.6	566.0	650.8	792.3	914.9	1122.4	1163.3	663.4
67.5°	330.1	342.7	380.5	415.0	427.6	352.1	364.7	320.7	320.7	286.1	229.5
70°	242.1	245.2	289.2	330.1	264.1	141.5	248.4	248.4	223.2	213.8	195.0
72.5°	179.2	182.4	217.0	204.4	103.7	88.0	182.4	201.2	182.4	173.0	157.2
75°	132.0	135.2	113.2	47.1	44.0	56.6	106.9	138.4	132.0	128.9	119.5
77.5°	25.1	18.9	15.7	22.0	31.5	47.1	69.1	84.9	88.0	94.4	88.0
80°	3.1	3.1	9.4	18.9	34.6	50.3	72.3	81.7	84.9	88.0	81.7
82.5°	0.0	3.1	9.4	18.9	34.6	47.1	62.9	72.3	78.6	81.7	78.6
85°	0.0	3.1	6.3	15.7	28.3	34.6	31.5	22.0	18.9	22.0	15.7
87.5°	0.0	0.0	3.1	3.1	6.3	6.3	6.3	6.3	6.3	6.3	6.3
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°	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8	1980.8
2.5°	2006.0	1993.4	1949.4	1902.2	1861.3	1880.1	1861.3	1845.6	1851.9	1845.6	1839.3
5°	2116.0	2059.4	1965.1	1924.2	1889.6	1886.5	1877.0	1873.9	1877.0	1877.0	1848.7
7.5°	2219.7	2128.6	2028.0	1984.0	1943.1	1946.2	1924.2	1924.2	1921.0	1905.4	1899.0
10°	2377.0	2254.3	2125.5	2046.8	1996.5	1987.1	1965.1	1943.1	1943.1	1943.1	1911.6
12.5°	2549.8	2395.8	2219.7	2128.6	2068.8	2021.6	1987.1	1980.8	1946.2	1939.9	1924.2
15°	2700.8	2505.8	2282.6	2156.9	2081.4	2018.5	1965.1	1930.5	1914.7	1905.4	1892.7
17.5°	2848.6	2600.2	2317.2	2156.9	2075.1	2002.8	1946.2	1914.7	1877.0	1883.3	1858.1
20°	3046.7	2700.8	2326.6	2116.0	2015.4	1946.2	1870.7	1855.0	1833.0	1814.1	1820.5
22.5°	3238.4	2773.1	2298.3	2065.7	1921.0	1839.3	1801.6	1782.7	1773.3	1757.5	1735.5
25°	3411.4	2851.7	2254.3	1974.5	1820.5	1760.7	1726.1	1723.0	1701.0	1701.0	1660.1
27.5°	3587.4	2880.0	2178.9	1867.6	1732.4	1697.9	1682.1	1675.8	1666.4	1644.4	1616.0
30°	3788.6	2889.4	2068.8	1757.5	1653.8	1616.0	1638.1	1653.8	1612.9	1572.0	1584.6
32.5°	3955.3	2867.4	1936.8	1653.8	1597.2	1578.4	1622.4	1638.1	1590.9	1546.9	1524.9
35°	4156.5	2813.9	1807.9	1572.0	1540.6	1578.4	1616.0	1616.0	1521.8	1468.3	1455.8
37.5°	4461.5	2754.2	1688.4	1502.9	1480.9	1559.5	1609.8	1575.2	1427.4	1361.4	1345.7
40°	4788.5	2716.5	1572.0	1433.8	1449.4	1528.0	1556.4	1449.4	1298.5	1257.7	1245.0
42.5°	5263.2	2641.1	1468.3	1374.0	1421.1	1484.0	1484.0	1292.3	1235.7	1213.6	1210.5
45°	5854.3	2587.6	1377.1	1323.7	1380.3	1396.0	1345.7	1210.5	1169.6	1163.3	1166.4
47.5°	6143.6	2483.8	1282.8	1263.9	1304.8	1307.9	1175.9	1144.4	1109.9	1100.4	1094.2
50°	6099.6	2298.3	1160.2	1185.3	1241.9	1210.5	1072.2	1078.4	1046.9	1043.8	1028.2
52.5°	5791.5	2006.0	1037.6	1097.3	1160.2	1069.0	987.3	980.9	980.9	940.1	924.3
55°	5134.4	1616.0	889.8	965.2	1040.7	899.2	877.2	870.9	855.2	817.5	808.1
57.5°	4065.3	1185.3	669.7	751.4	883.5	764.1	760.8	732.6	691.7	663.4	663.4
60°	2417.8	682.3	421.3	459.1	584.8	619.4	688.6	676.0	606.8	562.8	550.2
62.5°	1103.6	352.1	267.2	273.5	314.4	402.5	540.8	625.7	528.2	452.7	446.5
65°	371.0	261.0	220.1	210.6	217.0	242.1	323.8	443.3	421.3	349.0	336.5
67.5°	226.4	232.6	207.5	191.8	191.8	188.6	185.5	201.2	248.4	242.1	245.2
70°	195.0	213.8	191.8	173.0	166.6	157.2	132.0	110.0	94.4	110.0	116.4
72.5°	157.2	169.8	163.5	147.8	132.0	119.5	94.4	72.3	53.5	47.1	47.1
75°	116.4	125.7	132.0	113.2	100.6	84.9	69.1	47.1	28.3	18.9	18.9
77.5°	84.9	94.4	97.5	88.0	75.5	59.7	44.0	31.5	15.7	6.3	6.3
80°	72.3	84.9	94.4	88.0	78.6	56.6	40.9	22.0	12.6	3.1	3.1
82.5°	69.1	84.9	94.4	84.9	75.5	53.5	40.9	25.1	9.4	3.1	3.1
85°	15.7	22.0	28.3	34.6	40.9	40.9	31.5	18.9	9.4	3.1	3.1
87.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	3.1	3.1	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)