

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: P530815

Luminaire Tested: **GALN-SA6A-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530815
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-SA6A-740-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 17935 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

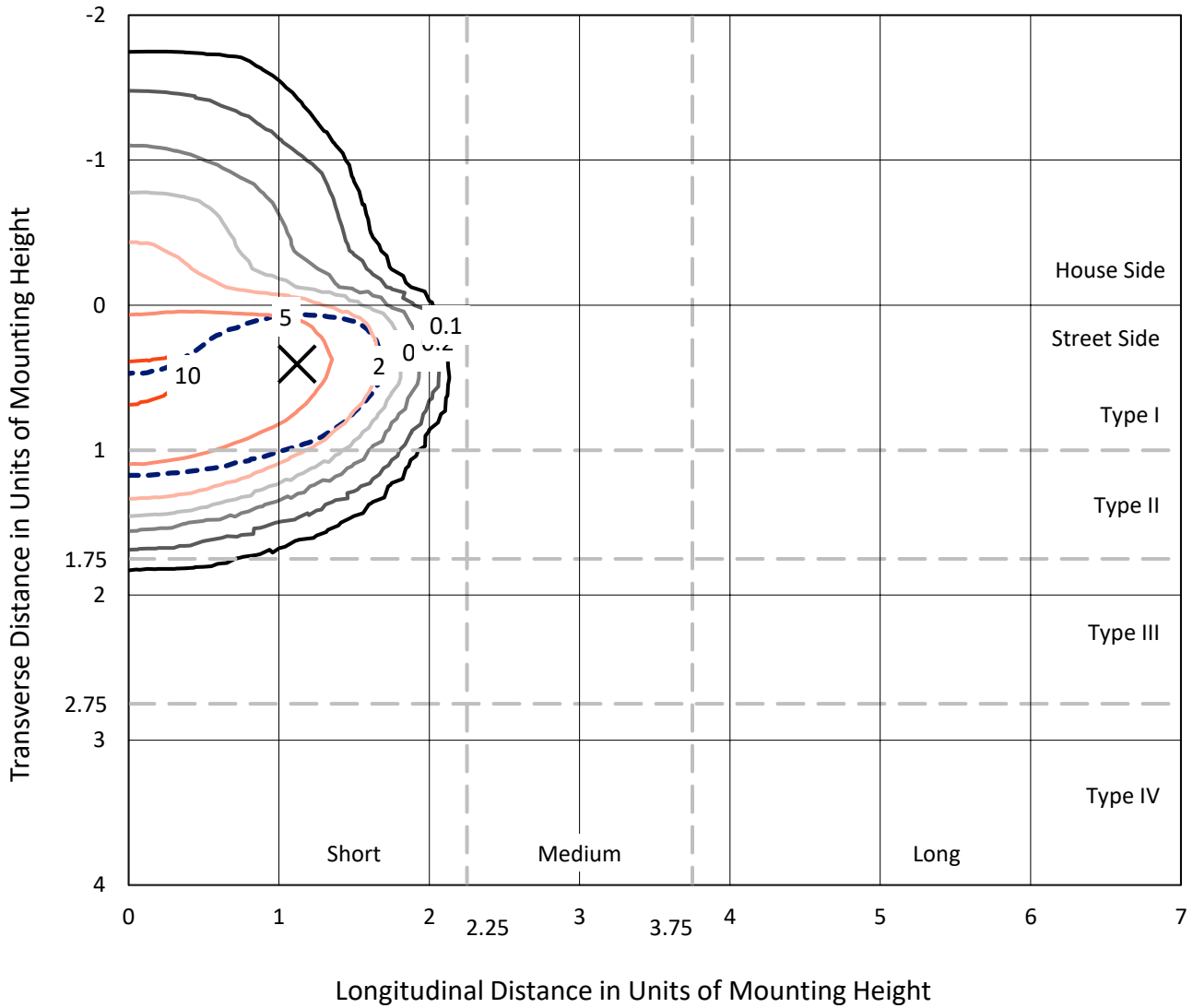
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

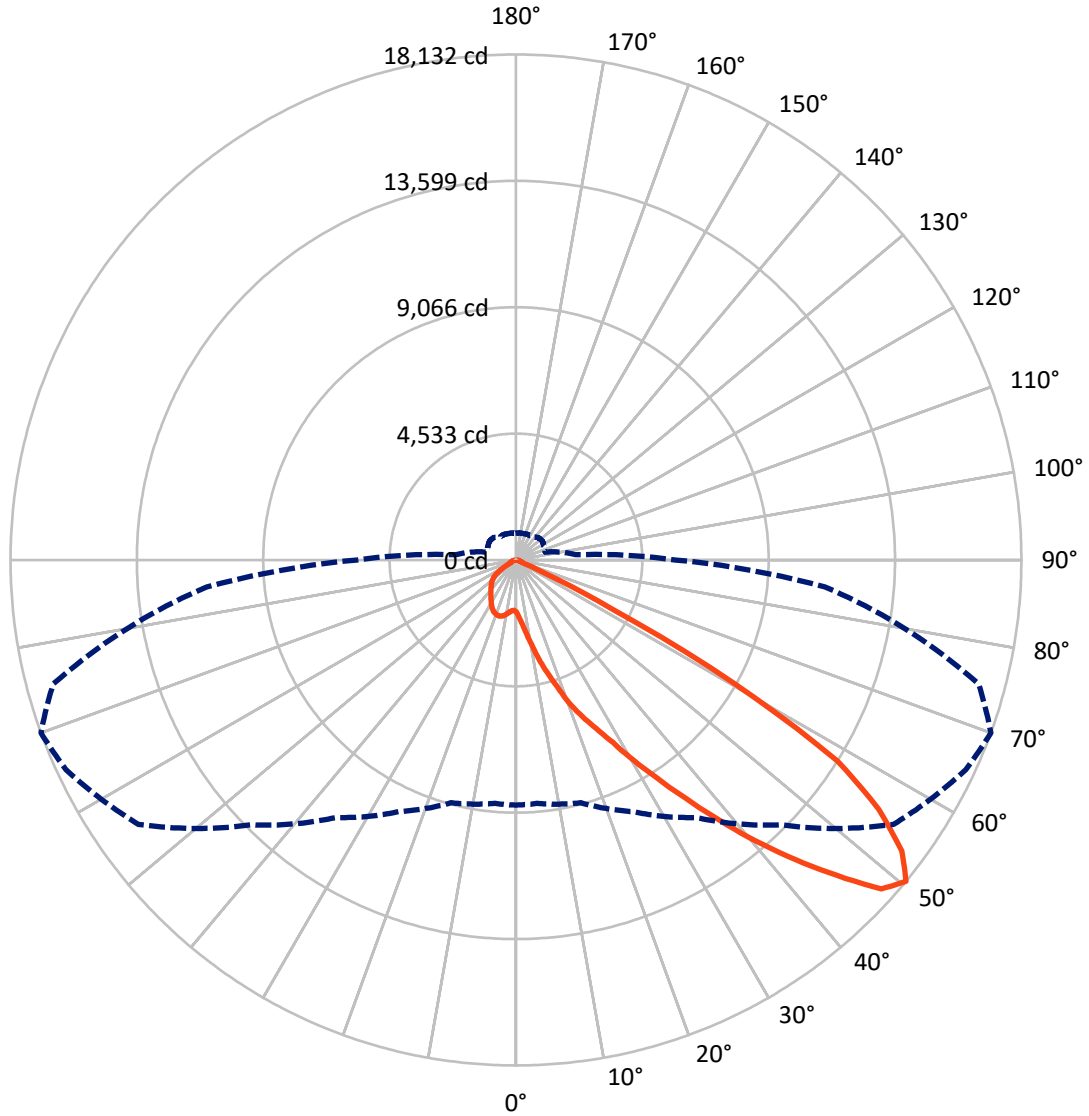
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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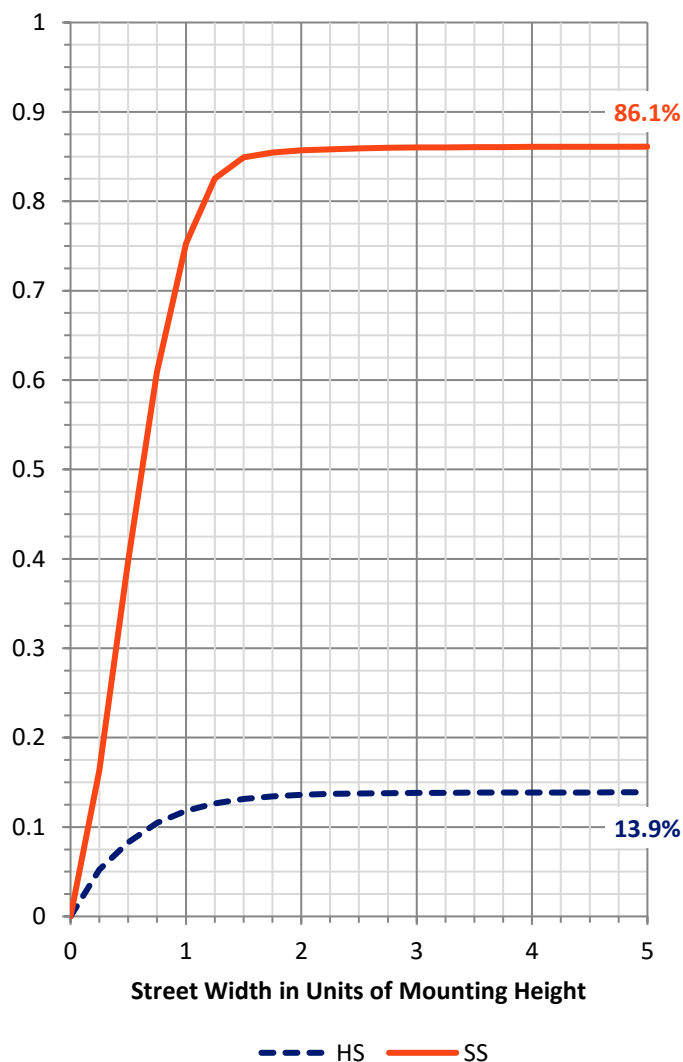
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2504.7	0.0	2504.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	15430.3	0.0	15430.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	17935.0	0.0	17935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.6	1.3
10°-20°	1044.9	5.8
20°-30°	2192.1	12.2
30°-40°	3778.5	21.1
40°-50°	5522.2	30.8
50°-60°	4300.9	24.0
60°-70°	728.7	4.1
70°-80°	100.1	0.6
80°-90°	25.9	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°	17935.0	100.0
0°-180°	17935.0	100.0

Coefficient of Utilization



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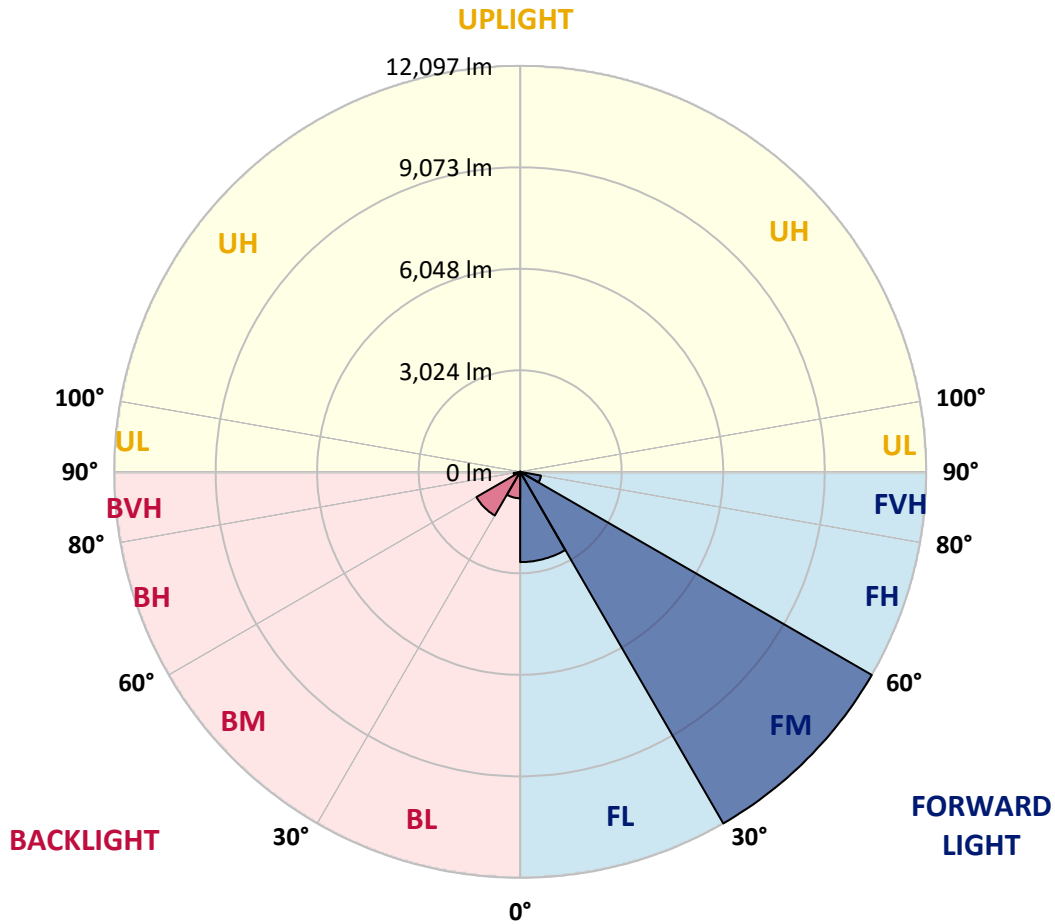
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2690.5	15.0			
FM (30°-60°)	12096.8	67.4			
FH (60°-80°)	631.0	3.5			G0/660
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	788.2	4.4	B2/1000		
BM (30°-60°)	1504.8	8.4	B2/2500		
BH (60°-80°)	197.9	1.1	B1/500		G1/500
BVH (80°-90°)	13.9	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°	1857.7	1857.7	1857.7	1857.7	1857.7	1857.7	1857.7	1857.7	1857.7	1857.7	1857.7
2.5°	2432.7	2415.0	2376.7	2305.9	2276.4	2205.7	2164.4	2084.8	2034.6	1978.6	1916.7
5°	3426.4	3335.0	3279.0	3199.4	2966.4	2822.0	2583.1	2379.6	2285.3	2182.1	2040.5
7.5°	4452.6	4393.6	4317.0	4145.9	3986.7	3685.9	3276.1	2827.9	2636.2	2459.3	2179.1
10°	5301.9	5136.7	5127.9	5001.1	4827.1	4467.4	3974.9	3417.6	3075.5	2816.1	2376.7
12.5°	5894.6	5744.2	5812.0	5797.2	5635.1	5304.8	4735.7	3998.5	3641.7	3237.7	2580.2
15°	6434.2	6372.2	6351.6	6333.9	6269.0	6024.3	5514.2	4706.2	4190.2	3703.6	2810.2
17.5°	6962.0	6802.8	6879.4	6894.2	6888.3	6667.1	6189.4	5378.5	4771.1	4196.1	3052.0
20°	7430.9	7445.6	7342.4	7321.7	7304.1	7295.2	6829.3	6044.9	5484.7	4712.1	3367.5
22.5°	8032.4	7929.2	8020.6	7961.6	7846.6	7775.9	7419.1	6634.7	6103.9	5334.3	3688.9
25°	8743.0	8825.6	8610.4	8586.8	8460.0	8215.2	7893.8	7295.2	6699.6	5912.2	4036.8
27.5°	9618.8	9474.3	9418.3	9288.6	9058.6	8955.4	8577.9	7976.4	7419.1	6519.7	4373.0
30°	10370.8	10332.4	10052.3	9899.0	9698.4	9695.5	9167.7	8899.3	8356.8	7472.1	4836.0
32.5°	10984.1	10816.0	10712.8	10606.7	10444.5	10488.7	10043.4	9901.9	9356.4	8356.8	5381.5
35°	11394.0	11273.1	11211.1	11049.0	11001.8	11199.4	11013.6	10954.6	10506.4	9601.1	6021.3
37.5°	11523.7	11562.1	11550.3	11346.8	11447.0	11980.8	12219.6	12066.3	11830.4	10913.3	6714.3
40°	11638.7	11665.3	11606.3	11845.1	12131.2	12738.6	13602.6	13349.0	13260.5	12243.2	7678.5
42.5°	11703.6	11682.9	11682.9	12095.8	12529.2	13750.0	14938.4	14770.3	14702.5	13658.6	8793.2
45°	11423.5	11222.9	11438.2	11998.5	12871.3	14248.4	16005.8	16238.8	16141.5	15342.3	10096.5
47.5°	10376.7	10500.5	10621.4	11370.4	12455.5	14095.0	16660.4	17453.7	17633.5	16757.7	10951.7
50°	8793.2	8766.6	9017.3	9960.9	11279.0	13434.5	16533.6	17804.6	18131.9	17182.4	11131.5
52.5°	6395.8	6590.5	6861.7	7799.4	9362.3	11724.2	14897.1	16899.3	17335.7	16660.4	11013.6
55°	3724.3	3509.0	4119.4	4912.6	6387.0	8843.3	12594.1	14979.7	15787.6	15710.9	10417.9
57.5°	1492.1	1444.9	1654.2	2229.3	3332.1	5481.7	9158.8	12308.1	13602.6	14389.9	9155.9
60°	654.6	639.9	751.9	908.2	1362.3	2527.1	5009.9	7655.0	9005.5	10055.2	6301.5
62.5°	471.8	465.9	521.9	578.0	719.5	1099.9	2105.4	3084.4	3845.2	4644.3	2822.0
65°	380.4	395.1	433.5	463.0	530.8	610.4	743.1	858.1	1052.7	1091.0	622.2
67.5°	309.6	321.4	356.8	389.2	401.0	330.3	342.1	300.8	300.8	268.3	215.3
70°	227.1	230.0	271.3	309.6	247.7	132.7	233.0	233.0	209.4	200.5	182.8
72.5°	168.1	171.0	203.5	191.7	97.3	82.6	171.0	188.7	171.0	162.2	147.4
75°	123.8	126.8	106.2	44.2	41.3	53.1	100.3	129.7	123.8	120.9	112.1
77.5°	23.6	17.7	14.7	20.6	29.5	44.2	64.9	79.6	82.6	88.5	82.6
80°	2.9	2.9	8.8	17.7	32.4	47.2	67.8	76.7	79.6	82.6	76.7
82.5°	0.0	2.9	8.8	17.7	32.4	44.2	59.0	67.8	73.7	76.7	73.7
85°	0.0	2.9	5.9	14.7	26.5	32.4	29.5	20.6	17.7	20.6	14.7
87.5°	0.0	0.0	2.9	2.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
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°	1857.7	1857.7	1857.7	1857.7	1857.7	1857.7	1857.7	1857.7	1857.7	1857.7	1857.7
2.5°	1881.3	1869.5	1828.2	1784.0	1745.7	1763.4	1745.7	1730.9	1736.8	1730.9	1725.0
5°	1984.5	1931.4	1843.0	1804.6	1772.2	1769.3	1760.4	1757.5	1760.4	1760.4	1733.9
7.5°	2081.8	1996.3	1901.9	1860.7	1822.3	1825.3	1804.6	1804.6	1801.7	1786.9	1781.0
10°	2229.3	2114.3	1993.4	1919.6	1872.5	1863.6	1843.0	1822.3	1822.3	1822.3	1792.8
12.5°	2391.4	2246.9	2081.8	1996.3	1940.3	1896.0	1863.6	1857.7	1825.3	1819.4	1804.6
15°	2533.0	2350.2	2140.8	2022.8	1952.1	1893.1	1843.0	1810.5	1795.8	1786.9	1775.1
17.5°	2671.6	2438.6	2173.2	2022.8	1946.2	1878.4	1825.3	1795.8	1760.4	1766.3	1742.7
20°	2857.3	2533.0	2182.1	1984.5	1890.1	1825.3	1754.5	1739.8	1719.1	1701.4	1707.3
22.5°	3037.2	2600.8	2155.5	1937.3	1801.7	1725.0	1689.6	1671.9	1663.1	1648.4	1627.7
25°	3199.4	2674.5	2114.3	1851.8	1707.3	1651.3	1618.9	1615.9	1595.3	1595.3	1556.9
27.5°	3364.5	2701.1	2043.5	1751.6	1624.8	1592.3	1577.6	1571.7	1562.8	1542.2	1515.7
30°	3553.2	2709.9	1940.3	1648.4	1551.0	1515.7	1536.3	1551.0	1512.7	1474.4	1486.2
32.5°	3709.5	2689.3	1816.4	1551.0	1498.0	1480.3	1521.6	1536.3	1492.1	1450.8	1430.1
35°	3898.2	2639.1	1695.5	1474.4	1444.9	1480.3	1515.7	1515.7	1427.2	1377.1	1365.3
37.5°	4184.3	2583.1	1583.5	1409.5	1388.9	1462.6	1509.8	1477.3	1338.7	1276.8	1262.1
40°	4490.9	2547.7	1474.4	1344.6	1359.4	1433.1	1459.6	1359.4	1217.8	1179.5	1167.7
42.5°	4936.2	2477.0	1377.1	1288.6	1332.8	1391.8	1391.8	1211.9	1158.9	1138.2	1135.3
45°	5490.6	2426.8	1291.6	1241.4	1294.5	1309.2	1262.1	1135.3	1096.9	1091.0	1094.0
47.5°	5761.9	2329.5	1203.1	1185.4	1223.7	1226.7	1102.8	1073.3	1040.9	1032.1	1026.2
50°	5720.6	2155.5	1088.1	1111.7	1164.8	1135.3	1005.5	1011.4	981.9	979.0	964.2
52.5°	5431.6	1881.3	973.1	1029.1	1088.1	1002.6	925.9	920.0	920.0	881.7	866.9
55°	4815.3	1515.7	834.5	905.3	976.0	843.3	822.7	816.8	802.1	766.7	757.8
57.5°	3812.7	1111.7	628.1	704.8	828.6	716.5	713.6	687.1	648.7	622.2	622.2
60°	2267.6	639.9	395.1	430.5	548.5	580.9	645.8	634.0	569.1	527.8	516.0
62.5°	1035.0	330.3	250.6	256.5	294.9	377.4	507.2	586.8	495.4	424.6	418.7
65°	348.0	244.7	206.4	197.6	203.5	227.1	303.7	415.8	395.1	327.3	315.5
67.5°	212.3	218.2	194.6	179.9	179.9	176.9	174.0	188.7	233.0	227.1	230.0
70°	182.8	200.5	179.9	162.2	156.3	147.4	123.8	103.2	88.5	103.2	109.1
72.5°	147.4	159.2	153.3	138.6	123.8	112.1	88.5	67.8	50.1	44.2	44.2
75°	109.1	118.0	123.8	106.2	94.4	79.6	64.9	44.2	26.5	17.7	17.7
77.5°	79.6	88.5	91.4	82.6	70.8	56.0	41.3	29.5	14.7	5.9	5.9
80°	67.8	79.6	88.5	82.6	73.7	53.1	38.3	20.6	11.8	2.9	2.9
82.5°	64.9	79.6	88.5	79.6	70.8	50.1	38.3	23.6	8.8	2.9	2.9
85°	14.7	20.6	26.5	32.4	38.3	38.3	29.5	17.7	8.8	2.9	2.9
87.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	2.9	2.9	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)