

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: P532765

Luminaire Tested: **GALN-SA8A-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532765  
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-827-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 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: 17954 lumens  
Efficiency: N/A  
Efficacy: 73.6 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

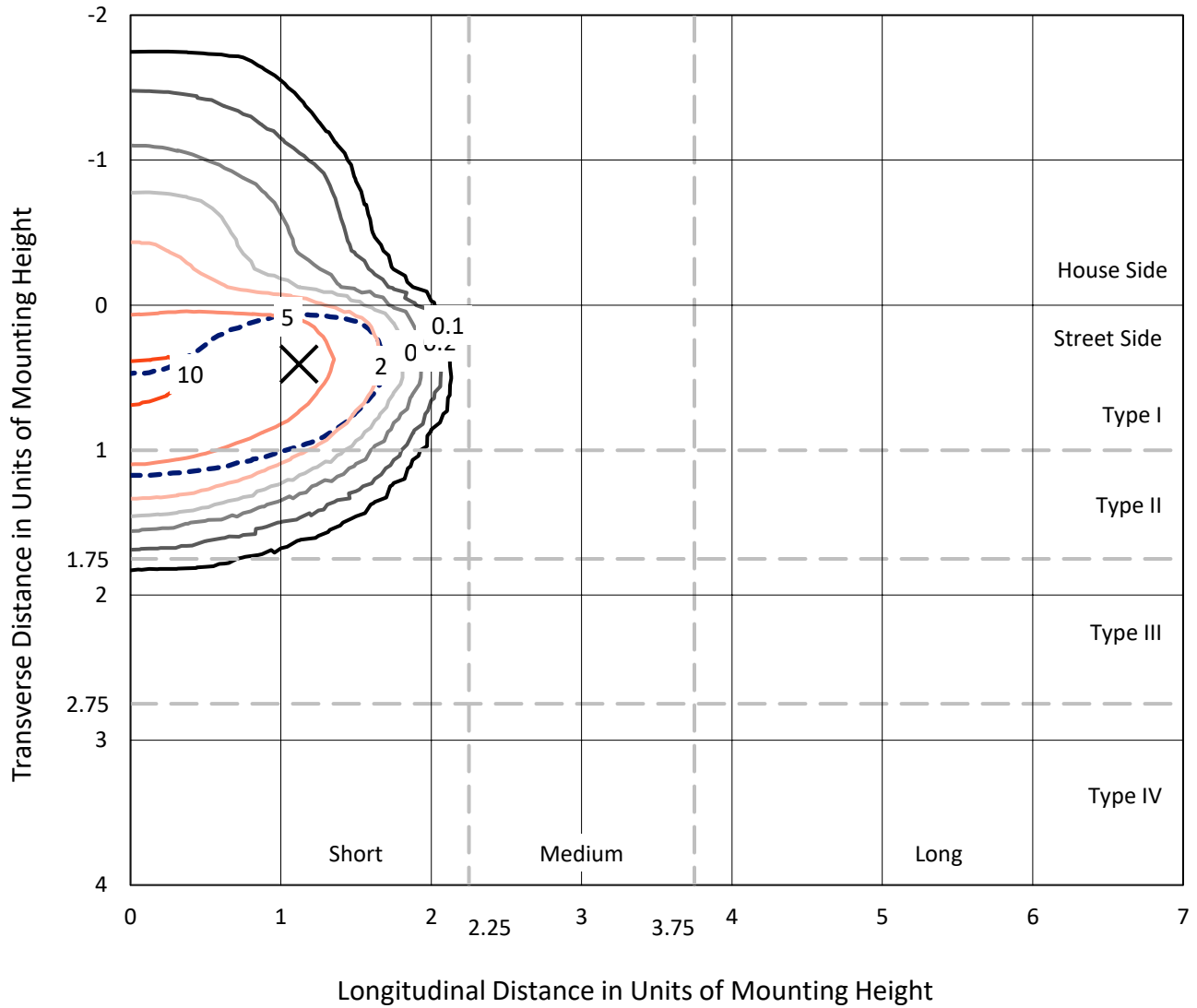
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

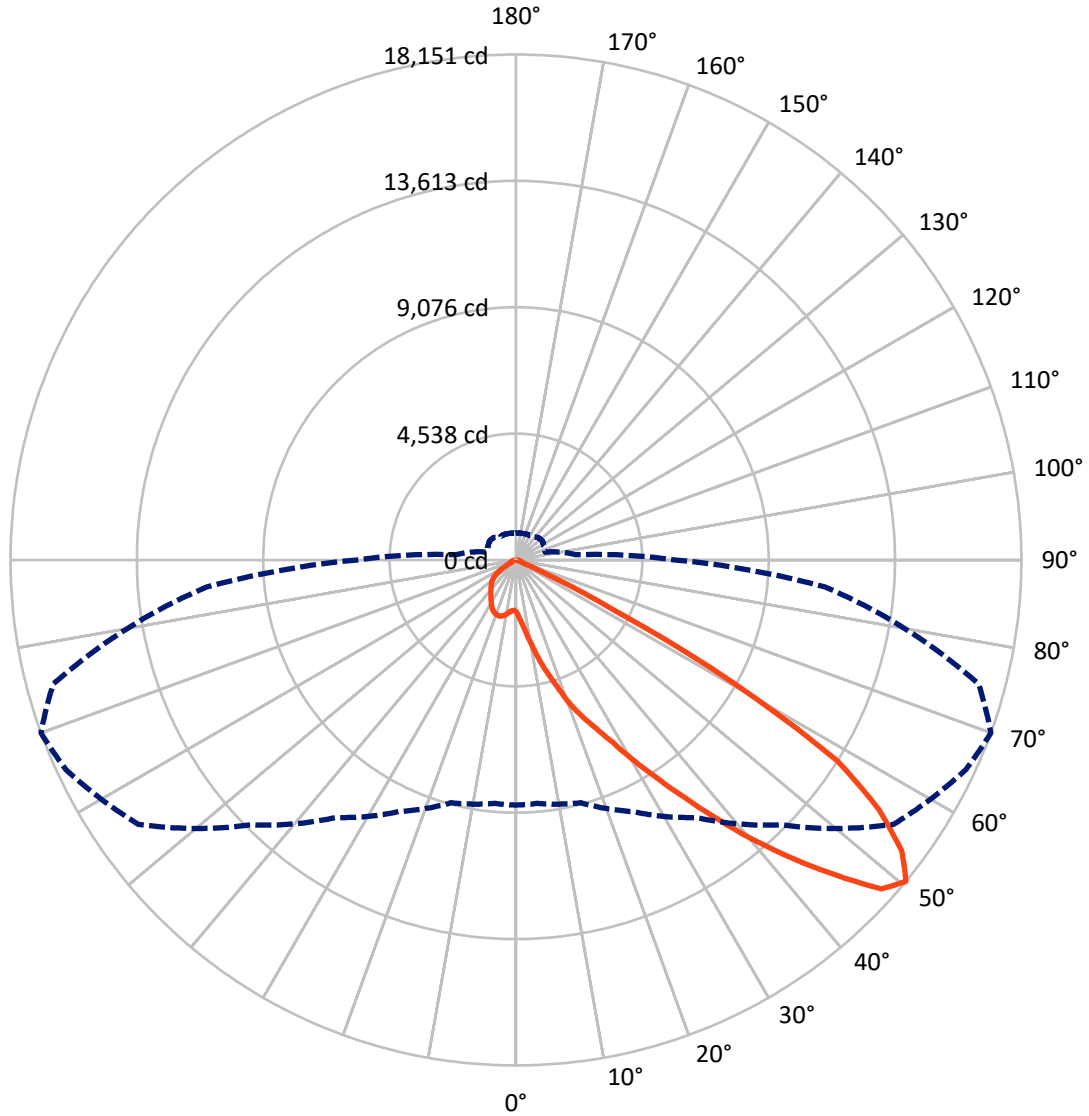
✕ Max cd  
 - - - 1/2 Max cd



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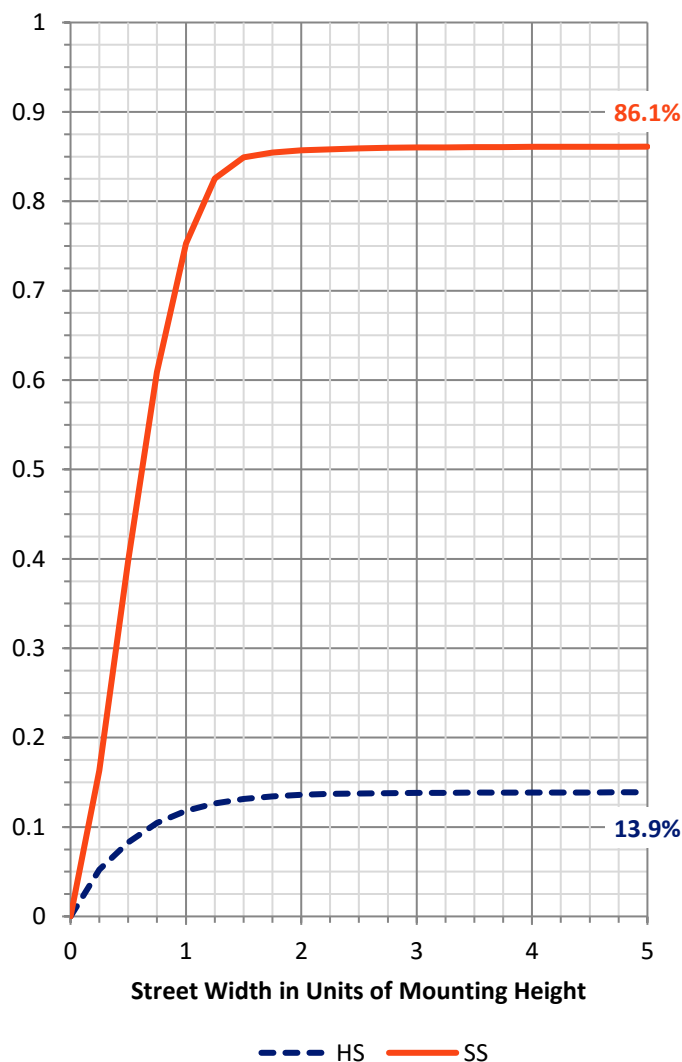
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2507.4	0.0	2507.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	15446.6	0.0	15446.6
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	17954.0	0.0	17954.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.8	1.3
10°-20°	1046.1	5.8
20°-30°	2194.4	12.2
30°-40°	3782.5	21.1
40°-50°	5528.1	30.8
50°-60°	4305.5	24.0
60°-70°	729.5	4.1
70°-80°	100.2	0.6
80°-90°	26.0	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°	17954.0	100.0
0°-180°	17954.0	100.0

**Coefficient of Utilization**



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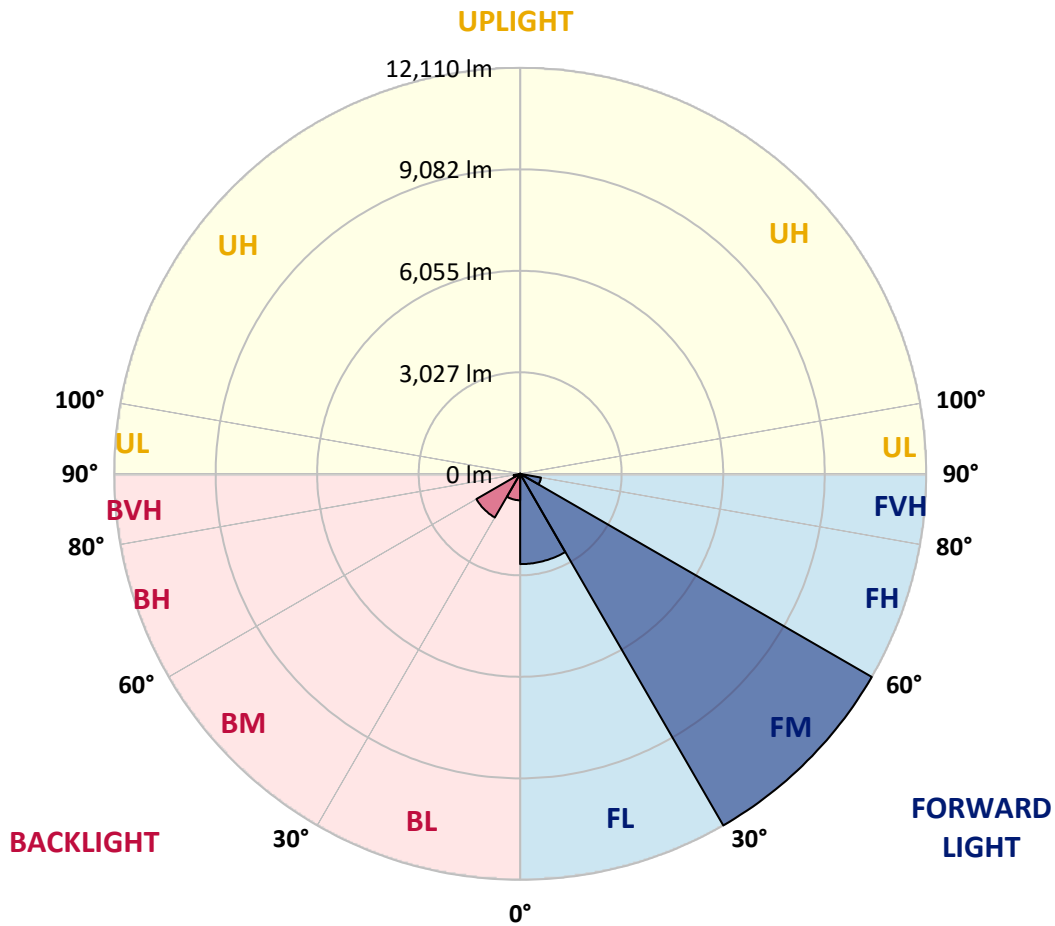
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2693.3	15.0			
FM (30°-60°)	12109.7	67.4			
FH (60°-80°)	631.6	3.5			G0/660
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	789.0	4.4	B2/1000		
BM (30°-60°)	1506.4	8.4	B2/2500		
BH (60°-80°)	198.1	1.1	B1/500		G1/500
BVH (80°-90°)	14.0	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°	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7
2.5°	2435.3	2417.6	2379.2	2308.4	2278.8	2208.0	2166.7	2087.0	2036.8	1980.7	1918.7
5°	3430.1	3338.6	3282.5	3202.8	2969.6	2824.9	2585.8	2382.2	2287.7	2184.4	2042.7
7.5°	4457.3	4398.3	4321.5	4150.3	3990.9	3689.8	3279.5	2830.8	2639.0	2461.9	2181.4
10°	5307.5	5142.2	5133.3	5006.4	4832.2	4472.1	3979.1	3421.2	3078.8	2819.0	2379.2
12.5°	5900.8	5750.3	5818.1	5803.4	5641.0	5310.4	4740.7	4002.7	3645.6	3241.2	2582.9
15°	6441.0	6379.0	6358.3	6340.6	6275.7	6030.7	5520.0	4711.2	4194.6	3707.6	2813.1
17.5°	6969.4	6810.0	6886.7	6901.5	6895.6	6674.2	6196.0	5384.2	4776.1	4200.5	3055.2
20°	7438.7	7453.5	7350.2	7329.5	7311.8	7302.9	6836.5	6051.3	5490.5	4717.1	3371.0
22.5°	8040.9	7937.6	8029.1	7970.1	7854.9	7784.1	7426.9	6641.7	6110.4	5339.9	3692.8
25°	8752.3	8835.0	8619.5	8595.9	8468.9	8223.9	7902.2	7302.9	6706.7	5918.5	4041.1
27.5°	9629.0	9484.4	9428.3	9298.4	9068.2	8964.8	8587.0	7984.8	7426.9	6526.6	4377.6
30°	10381.7	10343.4	10062.9	9909.4	9708.7	9705.8	9177.4	8908.8	8365.6	7480.0	4841.1
32.5°	10995.7	10827.5	10724.2	10617.9	10455.5	10499.8	10054.1	9912.4	9366.3	8365.6	5387.2
35°	11406.0	11285.0	11223.0	11060.7	11013.4	11211.2	11025.3	10966.2	10517.5	9611.3	6027.7
37.5°	11535.9	11574.3	11562.5	11358.8	11459.2	11993.5	12232.6	12079.1	11842.9	10924.9	6721.4
40°	11651.0	11677.6	11618.6	11857.7	12144.0	12752.1	13617.0	13363.1	13274.6	12256.2	7686.7
42.5°	11716.0	11695.3	11695.3	12108.6	12542.5	13764.6	14954.2	14785.9	14718.0	13673.1	8802.5
45°	11435.6	11234.8	11450.3	12011.2	12884.9	14263.5	16022.8	16256.0	16158.6	15358.6	10107.2
47.5°	10387.6	10511.6	10632.7	11382.4	12468.7	14110.0	16678.1	17472.1	17652.2	16775.5	10963.3
50°	8802.5	8775.9	9026.8	9971.4	11290.9	13448.7	16551.2	17823.4	18151.1	17200.6	11143.3
52.5°	6402.6	6597.4	6869.0	7807.7	9372.2	11736.7	14912.9	16917.2	17354.1	16678.1	11025.3
55°	3728.2	3512.7	4123.8	4917.8	6393.8	8852.7	12607.5	14995.5	15804.3	15727.6	10429.0
57.5°	1493.6	1446.4	1656.0	2231.6	3335.6	5487.5	9168.5	12321.1	13617.0	14405.1	9165.6
60°	655.3	640.6	752.7	909.2	1363.8	2529.8	5015.2	7663.1	9015.0	10065.9	6308.2
62.5°	472.3	466.4	522.5	578.6	720.3	1101.0	2107.6	3087.7	3849.2	4649.2	2824.9
65°	380.8	395.6	433.9	463.4	531.3	611.0	743.9	859.0	1053.8	1092.2	622.8
67.5°	309.9	321.8	357.2	389.6	401.5	330.6	342.4	301.1	301.1	268.6	215.5
70°	227.3	230.2	271.6	309.9	248.0	132.8	233.2	233.2	209.6	200.7	183.0
72.5°	168.3	171.2	203.7	191.9	97.4	82.7	171.2	188.9	171.2	162.4	147.6
75°	124.0	126.9	106.3	44.3	41.3	53.1	100.4	129.9	124.0	121.0	112.2
77.5°	23.6	17.7	14.8	20.7	29.5	44.3	64.9	79.7	82.7	88.6	82.7
80°	3.0	3.0	8.9	17.7	32.5	47.2	67.9	76.7	79.7	82.7	76.7
82.5°	0.0	3.0	8.9	17.7	32.5	44.3	59.0	67.9	73.8	76.7	73.8
85°	0.0	3.0	5.9	14.8	26.6	32.5	29.5	20.7	17.7	20.7	14.8
87.5°	0.0	0.0	3.0	3.0	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°	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7
2.5°	1883.3	1871.5	1830.2	1785.9	1747.5	1765.2	1747.5	1732.8	1738.7	1732.8	1726.8
5°	1986.6	1933.5	1844.9	1806.5	1774.1	1771.1	1762.3	1759.3	1762.3	1762.3	1735.7
7.5°	2084.0	1998.4	1904.0	1862.6	1824.3	1827.2	1806.5	1806.5	1803.6	1788.8	1782.9
10°	2231.6	2116.5	1995.5	1921.7	1874.4	1865.6	1844.9	1824.3	1824.3	1824.3	1794.7
12.5°	2394.0	2249.3	2084.0	1998.4	1942.3	1898.1	1865.6	1859.7	1827.2	1821.3	1806.5
15°	2535.7	2352.6	2143.1	2025.0	1954.1	1895.1	1844.9	1812.5	1797.7	1788.8	1777.0
17.5°	2674.4	2441.2	2175.5	2025.0	1948.2	1880.3	1827.2	1797.7	1762.3	1768.2	1744.6
20°	2860.4	2535.7	2184.4	1986.6	1892.2	1827.2	1756.4	1741.6	1720.9	1703.2	1709.1
22.5°	3040.4	2603.6	2157.8	1939.4	1803.6	1726.8	1691.4	1673.7	1664.9	1650.1	1629.4
25°	3202.8	2677.4	2116.5	1853.8	1709.1	1653.0	1620.6	1617.6	1597.0	1597.0	1558.6
27.5°	3368.1	2703.9	2045.6	1753.4	1626.5	1594.0	1579.3	1573.3	1564.5	1543.8	1517.3
30°	3557.0	2712.8	1942.3	1650.1	1552.7	1517.3	1537.9	1552.7	1514.3	1475.9	1487.7
32.5°	3713.5	2692.1	1818.4	1552.7	1499.6	1481.8	1523.2	1537.9	1493.6	1452.3	1431.7
35°	3902.4	2641.9	1697.3	1475.9	1446.4	1481.8	1517.3	1517.3	1428.7	1378.5	1366.7
37.5°	4188.7	2585.8	1585.2	1411.0	1390.3	1464.1	1511.4	1478.9	1340.2	1278.2	1263.4
40°	4495.7	2550.4	1475.9	1346.1	1360.8	1434.6	1461.2	1360.8	1219.1	1180.7	1168.9
42.5°	4941.4	2479.6	1378.5	1290.0	1334.2	1393.3	1393.3	1213.2	1160.1	1139.4	1136.5
45°	5496.4	2429.4	1292.9	1242.7	1295.9	1310.6	1263.4	1136.5	1098.1	1092.2	1095.1
47.5°	5768.0	2332.0	1204.4	1186.7	1225.0	1228.0	1104.0	1074.5	1042.0	1033.2	1027.3
50°	5726.6	2157.8	1089.2	1112.9	1166.0	1136.5	1006.6	1012.5	983.0	980.0	965.3
52.5°	5437.4	1883.3	974.1	1030.2	1089.2	1003.6	926.9	921.0	921.0	882.6	867.9
55°	4820.4	1517.3	835.4	906.2	977.1	844.2	823.6	817.7	802.9	767.5	758.6
57.5°	3816.8	1112.9	628.7	705.5	829.5	717.3	714.4	687.8	649.4	622.8	622.8
60°	2270.0	640.6	395.6	431.0	549.0	581.5	646.5	634.7	569.7	528.4	516.6
62.5°	1036.1	330.6	250.9	256.8	295.2	377.8	507.7	587.4	495.9	425.1	419.2
65°	348.3	245.0	206.6	197.8	203.7	227.3	304.0	416.2	395.6	327.7	315.9
67.5°	212.5	218.4	194.8	180.1	180.1	177.1	174.2	188.9	233.2	227.3	230.2
70°	183.0	200.7	180.1	162.4	156.4	147.6	124.0	103.3	88.6	103.3	109.2
72.5°	147.6	159.4	153.5	138.7	124.0	112.2	88.6	67.9	50.2	44.3	44.3
75°	109.2	118.1	124.0	106.3	94.5	79.7	64.9	44.3	26.6	17.7	17.7
77.5°	79.7	88.6	91.5	82.7	70.8	56.1	41.3	29.5	14.8	5.9	5.9
80°	67.9	79.7	88.6	82.7	73.8	53.1	38.4	20.7	11.8	3.0	3.0
82.5°	64.9	79.7	88.6	79.7	70.8	50.2	38.4	23.6	8.9	3.0	3.0
85°	14.8	20.7	26.6	32.5	38.4	38.4	29.5	17.7	8.9	3.0	3.0
87.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	3.0	3.0	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)