

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: P527749

Luminaire Tested: **GALN-SA2D-735-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527749  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-735-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8654 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

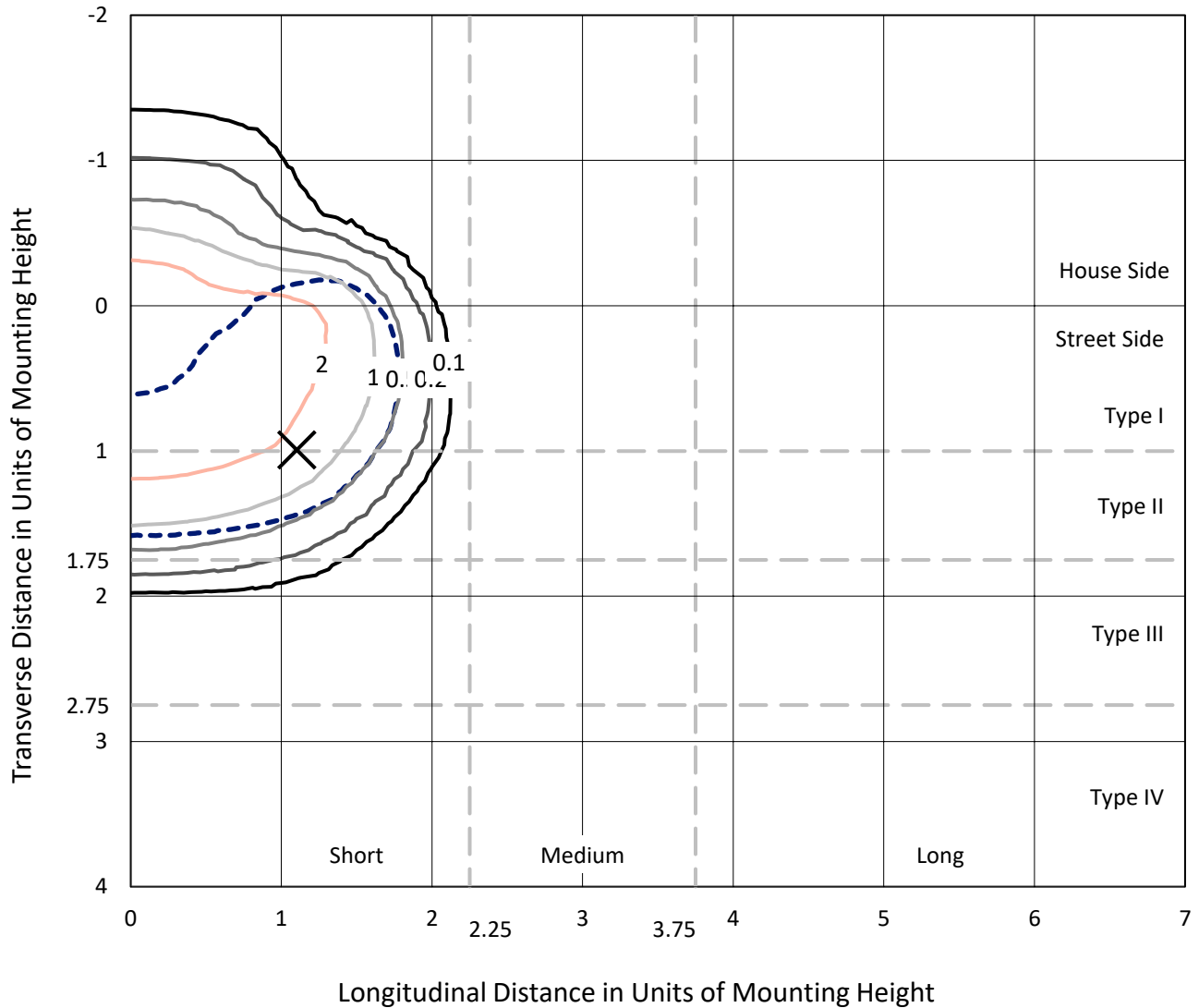
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

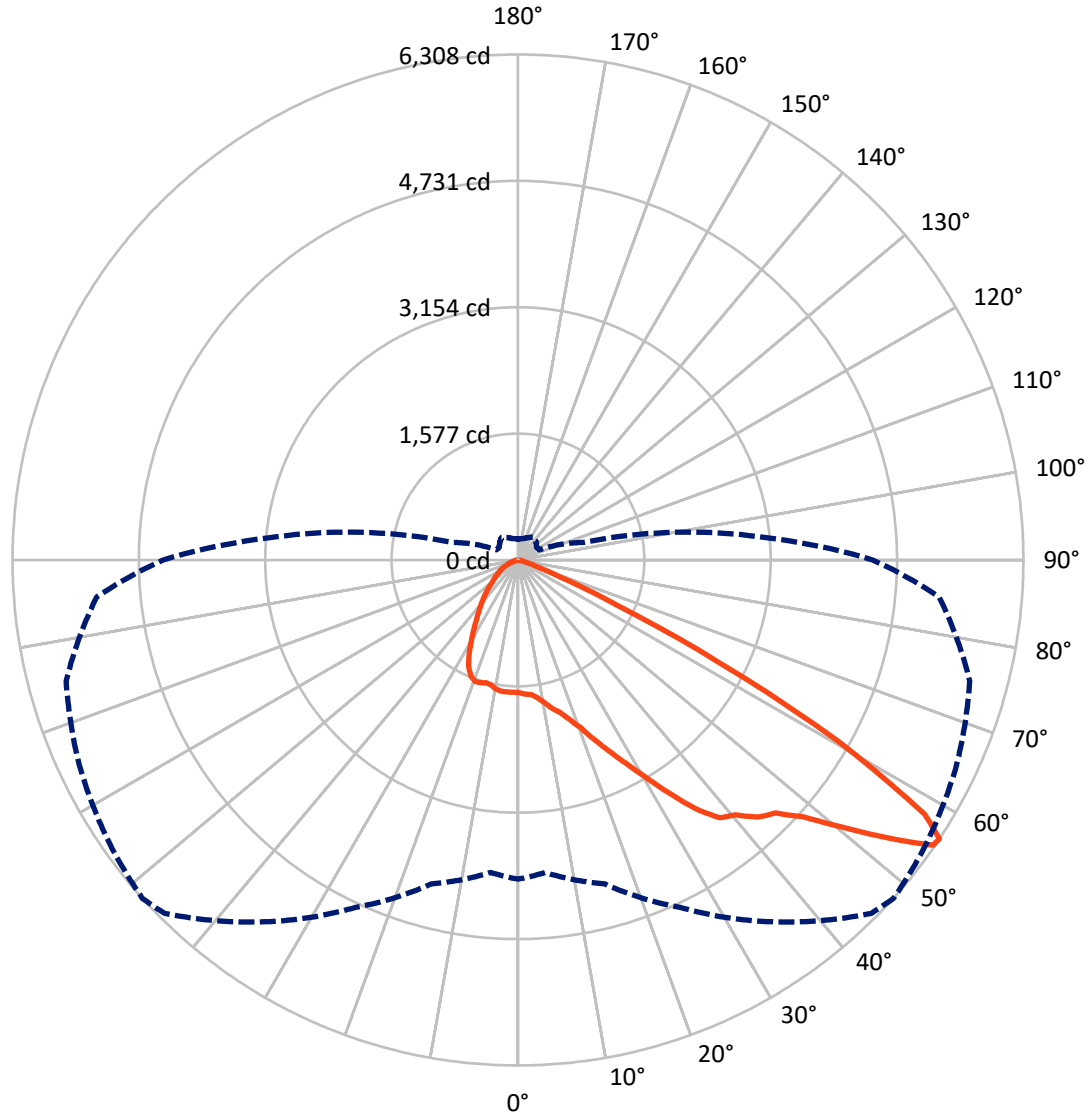
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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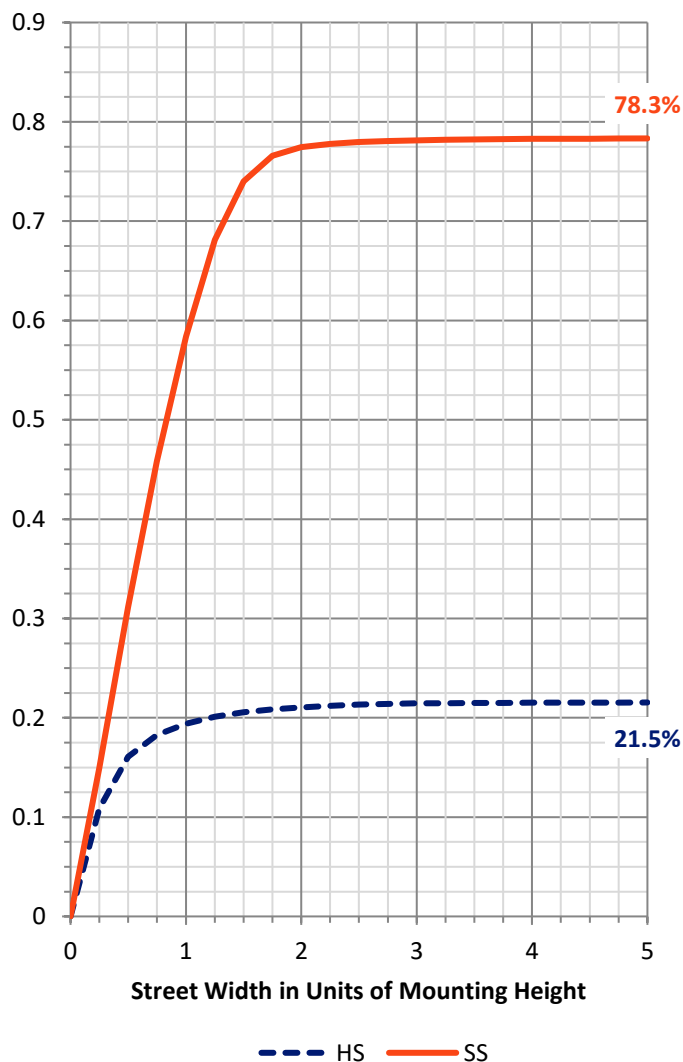
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1882.1	0.0	1882.1
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	6771.9	0.0	6771.9
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	8654.0	0.0	8654.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.0	1.9
10°-20°	514.6	5.9
20°-30°	933.3	10.8
30°-40°	1466.1	16.9
40°-50°	2138.7	24.7
50°-60°	2576.7	29.8
60°-70°	754.4	8.7
70°-80°	95.7	1.1
80°-90°	13.4	0.2
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°	8654.0	100.0
0°-180°	8654.0	100.0

**Coefficient of Utilization**



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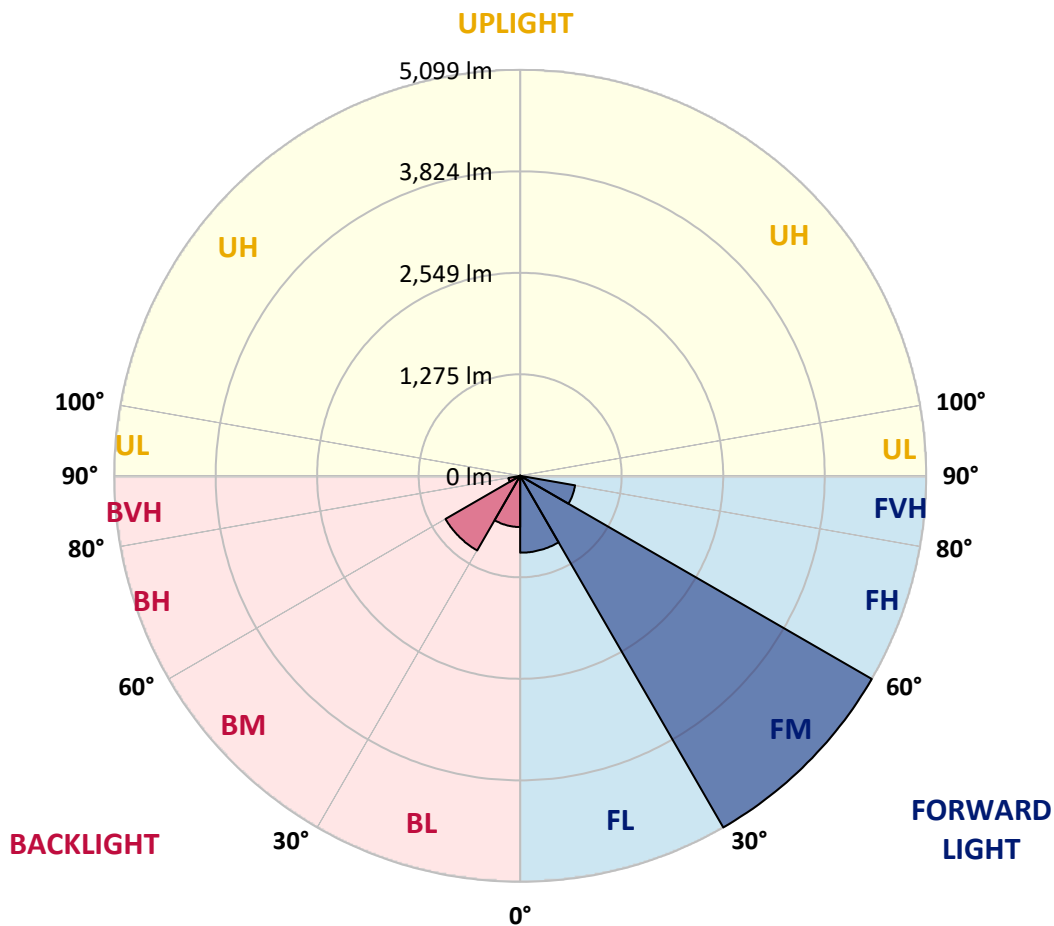
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	965.6	11.2			
FM (30°-60°)	5099.0	58.9			
FH (60°-80°)	700.6	8.1			G1/1800
FVH (80°-90°)	6.7	0.1			G0/10
BL (0°-30°)	643.3	7.4	B2/1000		
BM (30°-60°)	1082.6	12.5	B2/2500		
BH (60°-80°)	149.6	1.7	B1/500		G1/500
BVH (80°-90°)	6.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9
2.5°	1682.9	1675.0	1675.0	1662.4	1676.6	1670.3	1675.0	1659.2	1675.0	1651.3	1670.3
5°	1690.7	1692.3	1686.0	1693.9	1693.9	1703.3	1687.6	1701.8	1709.6	1692.3	1684.4
7.5°	1731.7	1734.9	1733.3	1727.0	1739.6	1738.0	1736.4	1725.4	1728.6	1722.2	1712.8
10°	1812.1	1810.5	1818.4	1802.6	1793.2	1804.2	1807.3	1790.0	1777.4	1772.7	1742.7
12.5°	1928.7	1909.8	1898.7	1883.0	1887.7	1871.9	1900.3	1870.4	1864.1	1835.7	1805.8
15°	2023.2	2020.1	2021.6	1996.4	1968.1	1974.4	1974.4	1958.6	1949.2	1914.5	1871.9
17.5°	2217.0	2150.8	2165.0	2133.5	2109.9	2108.3	2094.1	2097.3	2072.1	1999.6	1935.0
20°	2368.3	2339.9	2317.9	2264.3	2228.1	2239.1	2232.8	2217.0	2209.1	2114.6	2023.2
22.5°	2503.8	2513.3	2477.0	2462.8	2412.4	2417.1	2429.7	2415.6	2355.7	2258.0	2122.5
25°	2694.5	2683.4	2634.6	2617.3	2570.0	2587.3	2636.2	2625.1	2587.3	2410.8	2199.7
27.5°	2919.8	2882.0	2891.4	2812.6	2766.9	2815.8	2874.1	2929.2	2822.1	2590.5	2291.1
30°	3078.9	3039.5	3036.4	3033.2	3022.2	3078.9	3146.7	3197.1	3110.4	2770.1	2442.3
32.5°	3157.7	3167.2	3194.0	3184.5	3280.6	3397.2	3468.1	3540.6	3431.9	3063.2	2642.5
35°	3367.3	3307.4	3367.3	3373.6	3472.9	3720.2	3810.1	3983.4	3956.6	3477.6	2886.7
37.5°	3490.2	3485.5	3493.3	3553.2	3649.3	3955.0	4082.7	4216.6	4166.2	3726.5	3190.8
40°	3693.5	3706.1	3704.5	3750.2	3855.8	4131.5	4183.5	4292.2	4297.0	4071.6	3638.3
42.5°	4019.6	3969.2	3936.1	3983.4	4131.5	4284.4	4388.3	4366.3	4522.3	4490.8	4213.4
45°	4312.7	4342.7	4293.8	4372.6	4426.2	4508.1	4504.9	4552.2	4750.8	4900.5	4646.8
47.5°	4586.9	4605.8	4629.4	4683.0	4799.6	4812.2	4785.4	4764.9	5039.1	5193.5	4982.4
50°	4750.8	4768.1	4878.4	4974.5	5192.0	5220.3	5236.1	5184.1	5370.0	5387.3	5299.1
52.5°	4706.6	4725.5	4880.0	5196.7	5543.3	5803.3	5756.1	5667.8	5656.8	5724.5	5592.2
55°	4315.9	4298.5	4511.3	5004.4	5653.6	6277.6	6283.9	6191.0	6012.9	5967.2	5548.1
56°	3983.4	3915.6	4186.7	4782.3	5511.8	6236.7	6307.6	6208.3	6041.3	5836.4	5275.5
57.5°	3263.3	3327.9	3597.3	4090.5	5021.8	5942.0	5983.0	5959.3	5833.3	5489.8	4642.0
60°	1799.5	1912.9	2150.8	2754.3	3575.3	4560.1	4593.2	4785.4	4809.1	4204.0	3194.0
62.5°	764.2	751.6	999.0	1443.3	2035.8	2752.8	2814.2	3011.2	3047.4	2423.4	1602.5
65°	310.4	327.7	452.2	726.4	1076.2	1254.3	1340.9	1405.5	1525.3	1000.6	590.9
67.5°	204.8	203.3	266.3	414.4	579.9	559.4	559.4	590.9	546.8	408.1	255.3
70°	146.5	151.3	190.7	286.8	360.8	267.9	256.8	245.8	278.9	269.4	206.4
72.5°	96.1	102.4	127.6	171.8	187.5	146.5	146.5	176.5	230.1	217.4	168.6
75°	63.0	64.6	78.8	99.3	93.0	75.6	83.5	118.2	167.0	160.7	119.8
77.5°	42.5	44.1	53.6	64.6	52.0	42.5	45.7	59.9	81.9	81.9	63.0
80°	15.8	17.3	22.1	20.5	23.6	29.9	33.1	41.0	48.8	48.8	42.5
82.5°	0.0	1.6	4.7	11.0	17.3	23.6	26.8	31.5	36.2	41.0	39.4
85°	0.0	1.6	4.7	7.9	12.6	14.2	15.8	11.0	9.5	9.5	7.9
87.5°	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	3.2	1.6	1.6
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°	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9	1652.9
2.5°	1652.9	1651.3	1651.3	1646.6	1656.1	1651.3	1654.5	1652.9	1632.4	1648.2	1637.2
5°	1670.3	1681.3	1663.9	1660.8	1648.2	1652.9	1652.9	1637.2	1651.3	1649.8	1646.6
7.5°	1714.4	1695.5	1676.6	1657.6	1654.5	1649.8	1632.4	1626.1	1637.2	1624.6	1643.5
10°	1733.3	1736.4	1708.1	1682.9	1659.2	1626.1	1602.5	1588.3	1571.0	1589.9	1600.9
12.5°	1819.9	1788.4	1739.6	1700.2	1619.8	1586.7	1563.1	1556.8	1586.7	1593.0	1582.0
15°	1849.9	1845.2	1782.1	1693.9	1610.4	1571.0	1575.7	1563.1	1566.3	1550.5	1553.6
17.5°	1911.3	1857.8	1783.7	1673.4	1608.8	1599.3	1571.0	1520.6	1492.2	1479.6	1490.6
20°	1979.1	1927.1	1819.9	1681.3	1623.0	1597.8	1504.8	1443.3	1385.0	1353.5	1355.1
22.5°	2039.0	1974.4	1804.2	1684.4	1635.6	1531.6	1419.7	1298.4	1225.9	1177.1	1178.6
25°	2111.4	2020.1	1810.5	1690.7	1602.5	1426.0	1265.3	1147.1	1060.5	1027.4	1038.4
27.5°	2152.4	2048.4	1845.2	1704.9	1515.8	1276.3	1103.0	992.7	942.3	926.5	924.9
30°	2275.3	2111.4	1887.7	1676.6	1370.9	1115.6	954.9	887.1	838.3	824.1	827.2
32.5°	2458.1	2226.5	1942.8	1602.5	1222.7	972.2	858.8	808.3	762.6	735.9	732.7
35°	2610.9	2423.4	2001.1	1487.5	1051.0	861.9	791.0	728.0	658.6	628.7	620.8
37.5°	2902.5	2645.6	1988.5	1314.1	887.1	780.0	718.5	641.3	581.4	540.5	535.7
40°	3290.1	2905.6	1927.1	1103.0	765.8	707.5	641.3	567.3	493.2	458.5	455.4
42.5°	3761.2	3223.9	1815.2	888.7	644.5	635.0	575.1	490.0	423.9	398.7	400.2
45°	4144.1	3496.5	1701.8	713.8	554.6	564.1	512.1	431.7	386.0	365.6	365.6
47.5°	4484.5	3680.9	1578.9	589.3	471.1	493.2	447.5	400.2	360.8	345.1	341.9
50°	4812.2	3868.4	1456.0	477.4	401.8	423.9	419.1	381.3	349.8	330.9	332.5
52.5°	5017.1	3898.3	1300.0	390.8	351.4	376.6	392.4	357.7	323.0	312.0	308.8
55°	4766.5	3512.3	1008.5	321.4	297.8	330.9	360.8	321.4	294.7	275.7	274.2
56°	4429.3	3140.4	843.0	296.2	282.1	318.3	349.8	307.3	277.3	266.3	258.4
57.5°	3750.2	2570.0	622.4	263.1	261.6	296.2	332.5	293.1	258.4	249.0	249.0
60°	2338.4	1446.5	376.6	220.6	226.9	263.1	299.4	261.6	230.1	230.1	234.8
62.5°	1065.2	601.9	228.5	187.5	195.4	226.9	266.3	236.4	219.0	236.4	239.5
65°	362.4	260.0	165.4	149.7	154.4	187.5	228.5	239.5	237.9	249.0	255.3
67.5°	203.3	167.0	138.7	124.5	121.3	138.7	187.5	239.5	230.1	225.3	228.5
70°	171.8	141.8	122.9	110.3	105.6	111.9	145.0	181.2	162.3	157.6	154.4
72.5°	138.7	118.2	107.1	99.3	85.1	72.5	66.2	69.3	77.2	81.9	89.8
75°	97.7	89.8	89.8	80.4	61.5	45.7	36.2	29.9	20.5	14.2	15.8
77.5°	55.1	55.1	56.7	48.8	39.4	29.9	22.1	15.8	7.9	3.2	1.6
80°	37.8	41.0	44.1	39.4	33.1	26.8	18.9	11.0	4.7	0.0	0.0
82.5°	37.8	42.5	45.7	39.4	33.1	25.2	18.9	11.0	4.7	1.6	0.0
85°	7.9	9.5	11.0	12.6	18.9	18.9	14.2	9.5	4.7	1.6	0.0
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	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)