

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: P529982

Luminaire Tested: **GALN-SA5A-830-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529982  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-830-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15265 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

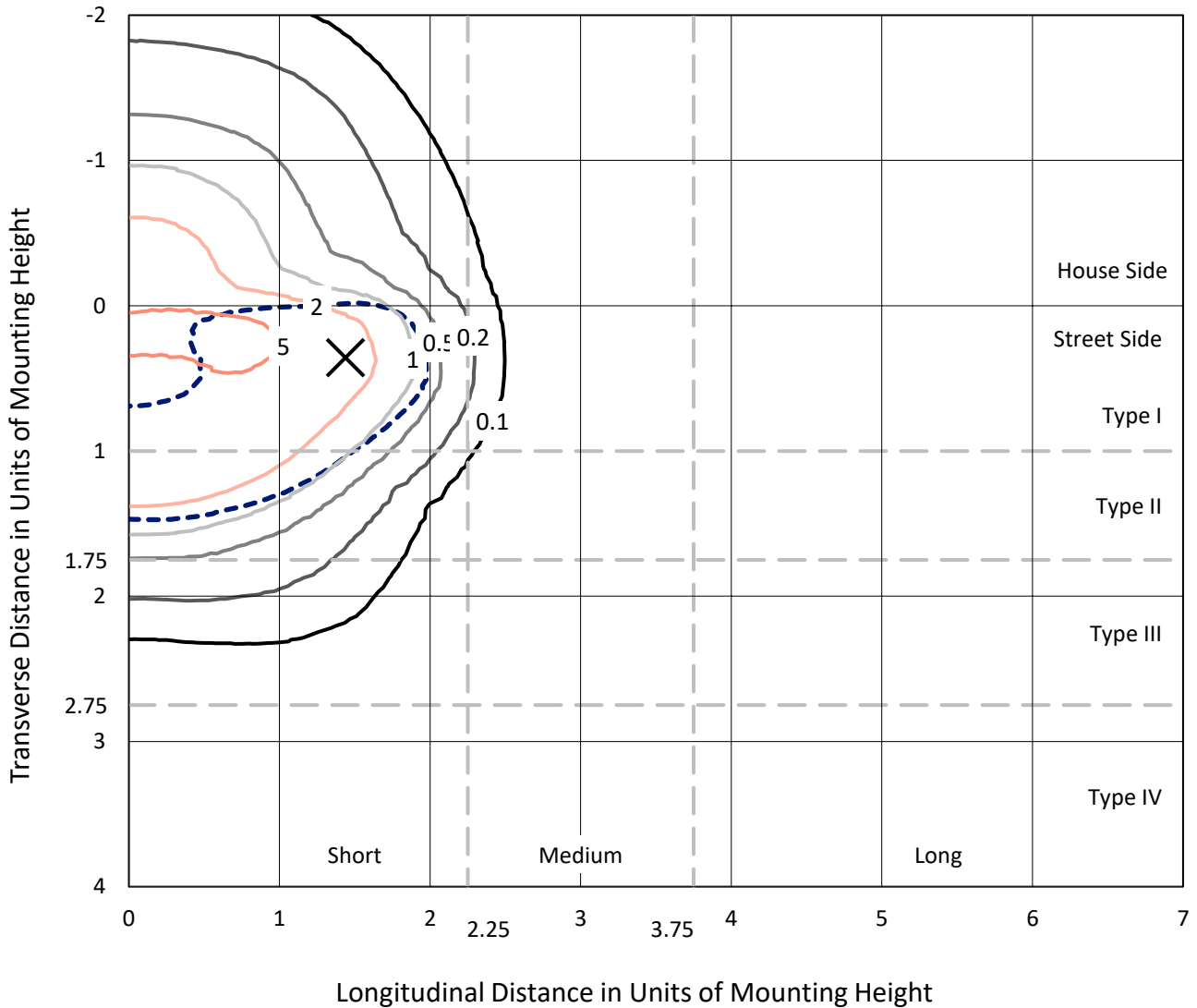
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

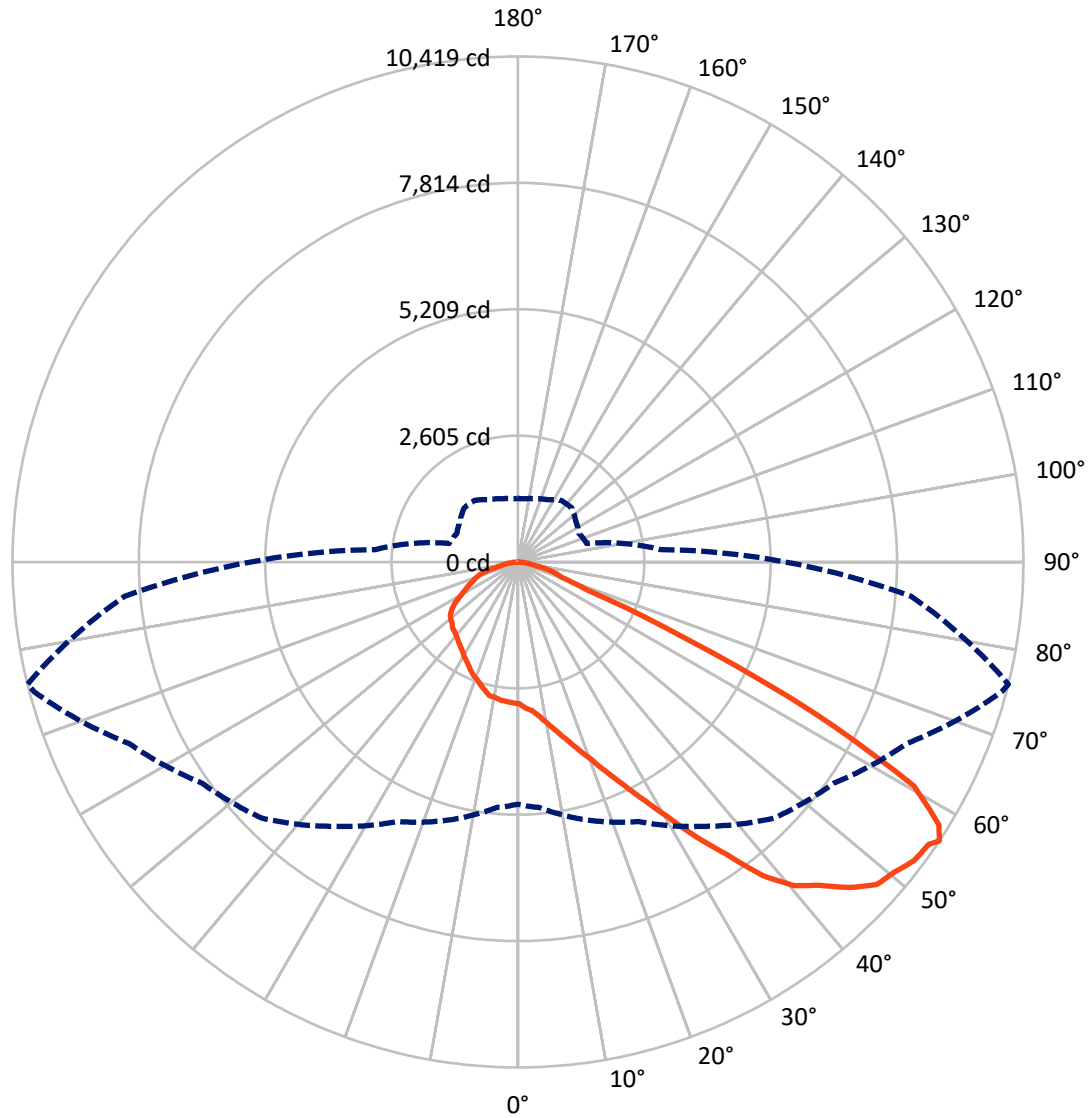
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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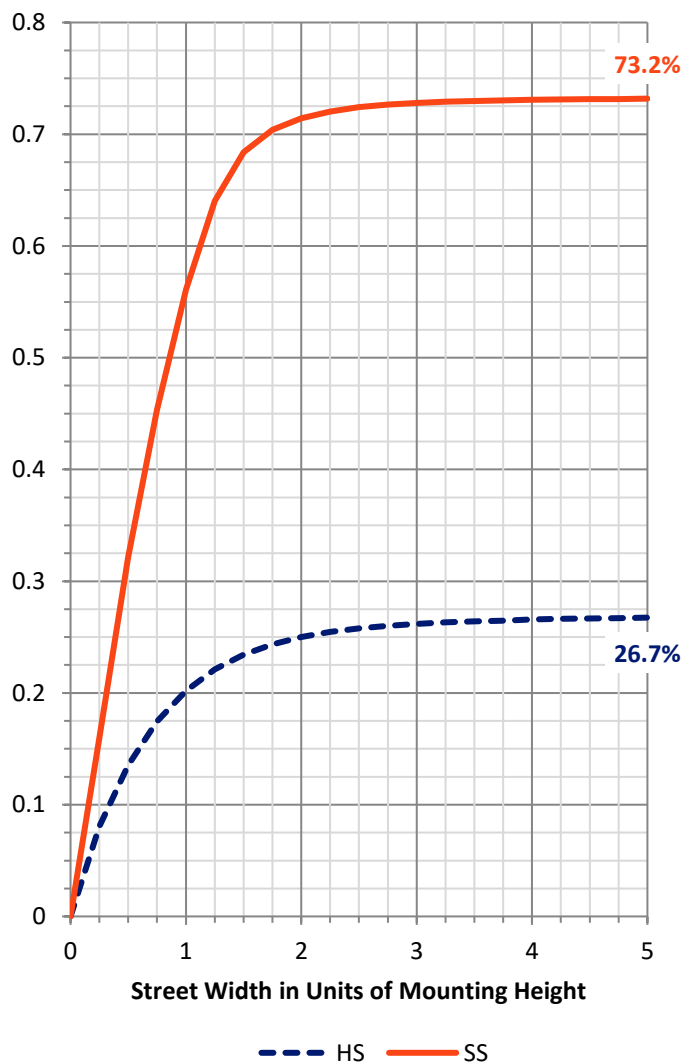
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4104.3	0.0	4104.3
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	11160.7	0.0	11160.7
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	15265.0	0.0	15265.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.7	1.9
10°-20°	909.9	6.0
20°-30°	1591.3	10.4
30°-40°	2491.5	16.3
40°-50°	3624.4	23.7
50°-60°	3983.4	26.1
60°-70°	1778.0	11.6
70°-80°	513.6	3.4
80°-90°	83.3	0.5
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°	15265.0	100.0
0°-180°	15265.0	100.0

**Coefficient of Utilization**



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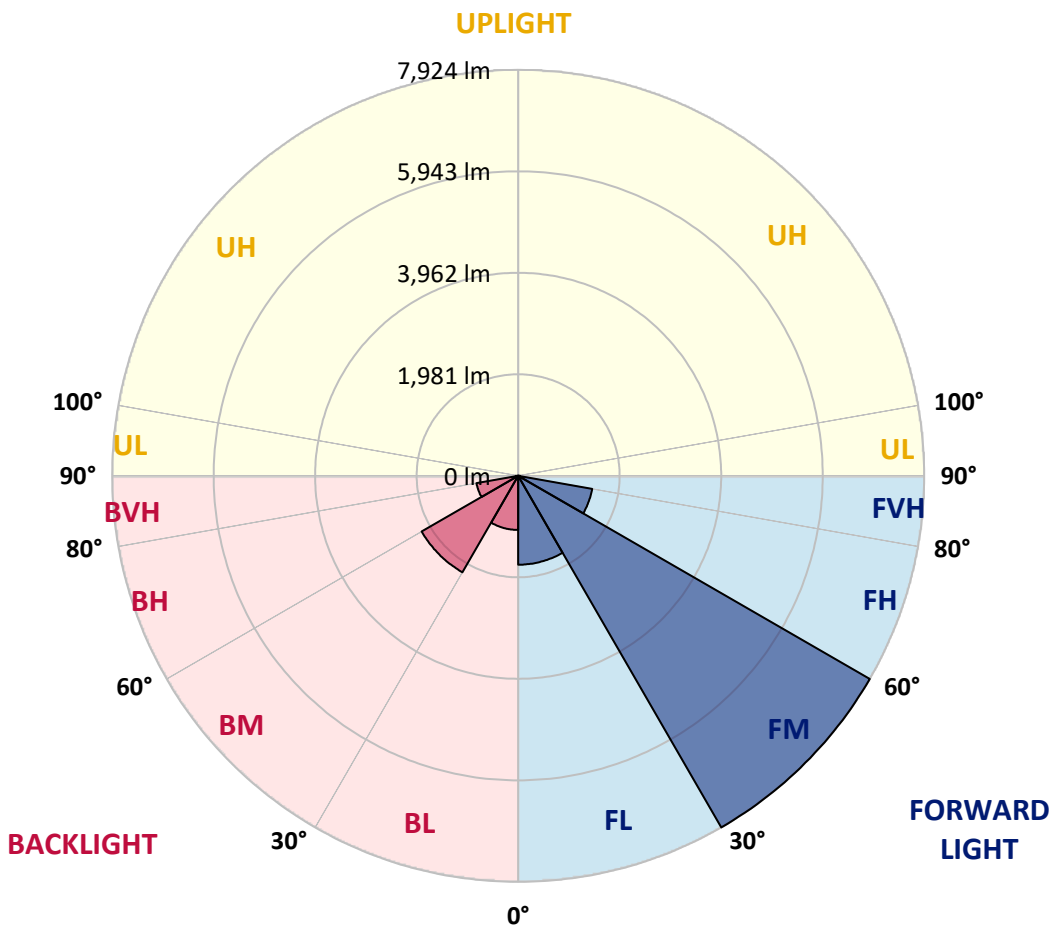
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1734.7	11.4			
FM (30°-60°)	7924.3	51.9			
FH (60°-80°)	1465.8	9.6			G1/1800
FVH (80°-90°)	35.9	0.2			G1/100
BL (0°-30°)	1056.1	6.9	B3/2500		
BM (30°-60°)	2174.9	14.2	B2/2500		
BH (60°-80°)	825.8	5.4	B2/1000		G2/1000
BVH (80°-90°)	47.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8
2.5°	3217.6	3166.1	3162.2	3148.3	3156.2	3120.6	3083.0	3033.6	2982.1	3013.8	2938.6
5°	3443.2	3373.9	3401.6	3354.1	3360.1	3312.6	3235.4	3178.0	3114.7	3077.1	3023.7
7.5°	3522.3	3528.3	3548.1	3540.1	3500.6	3500.6	3449.1	3348.2	3237.4	3215.6	3126.6
10°	3629.2	3631.2	3609.4	3615.3	3670.7	3645.0	3599.5	3556.0	3413.5	3387.8	3229.5
12.5°	3666.8	3631.2	3666.8	3698.4	3763.7	3799.4	3789.5	3757.8	3605.4	3587.6	3356.1
15°	3672.7	3651.0	3680.6	3751.9	3809.3	3959.7	4034.8	4013.1	3811.2	3813.2	3498.6
17.5°	3645.0	3674.7	3686.6	3747.9	3880.5	4021.0	4238.7	4268.3	4102.1	4076.4	3678.7
20°	3682.6	3660.8	3676.7	3732.1	3908.2	4127.9	4412.8	4608.7	4375.2	4357.4	3864.7
22.5°	3827.1	3797.4	3793.4	3829.0	3955.7	4183.3	4596.8	4949.1	4707.7	4717.5	4096.2
25°	3939.9	3955.7	3941.8	3939.9	4019.0	4266.4	4840.2	5354.7	5158.8	5101.4	4369.3
27.5°	4133.8	4171.4	4143.7	4181.3	4163.5	4391.0	5014.4	5803.9	5645.6	5568.4	4616.6
30°	4402.9	4422.7	4397.0	4397.0	4343.5	4565.2	5172.7	6272.9	6207.6	6102.7	4907.5
32.5°	4757.1	4786.8	4735.4	4705.7	4697.8	4824.4	5457.6	6736.0	6846.8	6757.7	5293.4
35°	5226.1	5208.3	5147.0	5119.2	5012.4	5222.1	5881.1	7268.3	7559.2	7400.8	5760.4
37.5°	5639.7	5612.0	5608.0	5453.7	5479.4	5651.6	6241.2	7671.9	8249.8	8204.3	6253.1
40°	6025.6	6051.3	6092.8	6005.8	5966.2	6156.2	6660.8	7980.6	8786.0	8768.2	6633.1
42.5°	6439.1	6415.4	6488.6	6415.4	6356.0	6625.1	7115.9	8194.4	9257.0	9110.6	7030.8
45°	7038.7	6963.5	6989.2	6995.2	6951.7	7050.6	7303.9	8348.7	9587.5	9571.6	7321.7
47.5°	7539.4	7541.3	7497.8	7464.2	7331.6	7430.5	7513.6	8445.7	9967.4	9941.7	7434.5
50°	7725.4	7699.7	7826.3	7899.5	7907.4	7705.6	7677.9	8499.1	10167.3	10054.5	7547.3
52.5°	7056.5	7080.3	7280.1	7715.5	7966.8	7988.6	7869.8	8609.9	10248.4	10224.6	7638.3
55°	5679.3	5794.0	6122.5	6625.1	7220.8	7875.8	8077.6	8724.7	10291.9	10272.1	8042.0
56°	4992.6	5081.7	5509.1	5902.9	6650.9	7466.1	7947.0	8847.4	10325.6	10418.6	8137.0
57.5°	4019.0	4121.9	4428.6	4875.9	5758.4	6686.5	7586.9	8697.0	10195.0	10230.6	8206.2
60°	2513.1	2523.0	2891.1	3185.9	3807.3	4713.6	5790.1	7567.1	9435.1	9383.6	7371.2
62.5°	1648.4	1650.3	1984.8	2226.2	2509.2	2716.9	3407.6	5018.3	6961.5	6870.5	5247.9
65°	1157.6	1183.3	1442.6	1765.1	1879.9	1771.1	1749.3	2645.7	3888.4	3757.8	2819.8
67.5°	846.9	848.9	1078.5	1424.8	1591.0	1347.6	1094.3	1292.2	1539.5	1535.6	1306.0
70°	560.0	583.8	759.9	1064.6	1254.6	1082.4	894.4	924.1	979.5	979.5	971.6
72.5°	326.5	348.3	465.0	674.8	704.5	676.8	708.4	791.5	827.2	825.2	815.3
75°	186.0	195.9	221.6	281.0	350.3	413.6	520.4	599.6	635.2	657.0	631.2
77.5°	108.8	114.8	130.6	160.3	182.1	223.6	283.0	338.4	385.9	379.9	383.9
80°	57.4	57.4	73.2	95.0	126.6	158.3	188.0	219.7	245.4	251.3	257.2
82.5°	33.6	35.6	47.5	69.3	91.0	112.8	144.5	166.2	190.0	191.9	195.9
85°	17.8	19.8	29.7	45.5	61.3	69.3	71.2	67.3	73.2	69.3	79.2
87.5°	5.9	5.9	9.9	7.9	7.9	9.9	11.9	11.9	15.8	15.8	15.8
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°	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8
2.5°	2936.6	2936.6	2903.0	2839.6	2829.7	2804.0	2780.3	2778.3	2760.5	2744.6	2736.7
5°	2992.0	2930.7	2881.2	2823.8	2756.5	2724.9	2689.2	2649.7	2633.8	2649.7	2647.7
7.5°	3055.3	3003.9	2855.5	2748.6	2671.4	2639.8	2600.2	2558.6	2562.6	2562.6	2534.9
10°	3116.7	3047.4	2809.9	2673.4	2560.6	2536.9	2515.1	2530.9	2550.7	2554.7	2536.9
12.5°	3219.6	3063.2	2788.2	2598.2	2527.0	2475.5	2489.4	2532.9	2574.5	2562.6	2576.4
15°	3296.7	3077.1	2689.2	2521.0	2432.0	2455.7	2505.2	2534.9	2604.1	2596.2	2610.1
17.5°	3371.9	3085.0	2592.3	2418.1	2380.5	2445.8	2483.4	2568.5	2590.3	2637.8	2655.6
20°	3526.3	3100.8	2493.3	2354.8	2342.9	2418.1	2483.4	2523.0	2570.5	2612.1	2612.1
22.5°	3605.4	3092.9	2428.0	2271.7	2309.3	2356.8	2416.2	2483.4	2483.4	2523.0	2525.0
25°	3704.4	3061.3	2325.1	2232.1	2259.8	2305.3	2372.6	2348.9	2374.6	2374.6	2406.3
27.5°	3817.2	2994.0	2236.1	2160.9	2216.3	2265.8	2275.7	2259.8	2230.1	2226.2	2214.3
30°	3908.2	2910.9	2170.8	2137.1	2182.7	2210.4	2178.7	2145.1	2093.6	2089.7	2061.9
32.5°	4032.9	2808.0	2089.7	2077.8	2129.2	2131.2	2121.3	2069.9	1994.7	1963.0	1931.3
35°	4242.6	2748.6	2028.3	2046.1	2061.9	2056.0	2038.2	1982.8	1907.6	1893.7	1881.9
37.5°	4397.0	2705.1	1965.0	1986.8	2000.6	2008.5	1955.1	1893.7	1895.7	1868.0	1860.1
40°	4571.1	2677.4	1913.5	1923.4	1925.4	1951.1	1885.8	1856.1	1870.0	1852.2	1864.1
42.5°	4794.7	2685.3	1860.1	1852.2	1889.8	1879.9	1848.2	1808.7	1816.6	1763.1	1771.1
45°	4913.4	2738.7	1828.4	1792.8	1834.4	1832.4	1790.8	1753.2	1705.8	1602.9	1606.8
47.5°	4992.6	2752.6	1753.2	1729.5	1773.0	1798.8	1751.3	1664.2	1596.9	1523.7	1505.9
50°	5073.7	2778.3	1717.6	1668.2	1686.0	1747.3	1687.9	1604.8	1539.5	1474.2	1484.1
52.5°	5145.0	2827.8	1648.4	1575.2	1606.8	1674.1	1642.4	1541.5	1470.3	1416.8	1401.0
55°	5461.6	2938.6	1531.6	1436.6	1511.8	1596.9	1579.1	1456.4	1379.2	1351.5	1347.6
56°	5511.1	2942.5	1470.3	1389.1	1458.4	1571.2	1549.4	1418.8	1349.6	1306.0	1308.0
57.5°	5519.0	2895.0	1383.2	1345.6	1405.0	1533.6	1505.9	1389.1	1294.2	1254.6	1242.7
60°	4856.1	2259.8	1274.4	1250.6	1319.9	1418.8	1408.9	1308.0	1201.2	1155.6	1177.4
62.5°	3310.6	1656.3	1189.3	1185.3	1220.9	1317.9	1292.2	1201.2	1112.1	1082.4	1068.6
65°	1927.4	1256.6	1106.2	1090.3	1120.0	1171.5	1189.3	1094.3	1001.3	981.5	975.6
67.5°	1137.8	1038.9	999.3	973.6	963.7	995.4	1009.2	953.8	860.8	833.1	856.8
70°	951.8	924.1	926.1	882.6	858.8	837.0	825.2	775.7	698.5	662.9	653.0
72.5°	821.2	809.3	801.4	761.9	740.1	690.6	639.2	589.7	532.3	502.6	504.6
75°	627.3	623.3	627.3	607.5	569.9	530.3	482.8	419.5	376.0	338.4	346.3
77.5°	374.0	385.9	391.8	383.9	368.1	332.4	302.8	261.2	219.7	190.0	186.0
80°	257.2	267.1	277.0	267.1	251.3	225.6	193.9	162.3	132.6	116.8	112.8
82.5°	195.9	205.8	211.7	201.8	182.1	154.3	132.6	110.8	87.1	71.2	67.3
85°	71.2	81.1	79.2	95.0	102.9	98.9	85.1	65.3	49.5	35.6	33.6
87.5°	19.8	17.8	19.8	19.8	19.8	17.8	15.8	15.8	15.8	9.9	7.9
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)