

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: P648513

Luminaire Tested: **GALN-SA6B-835-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648513  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-835-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26200 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

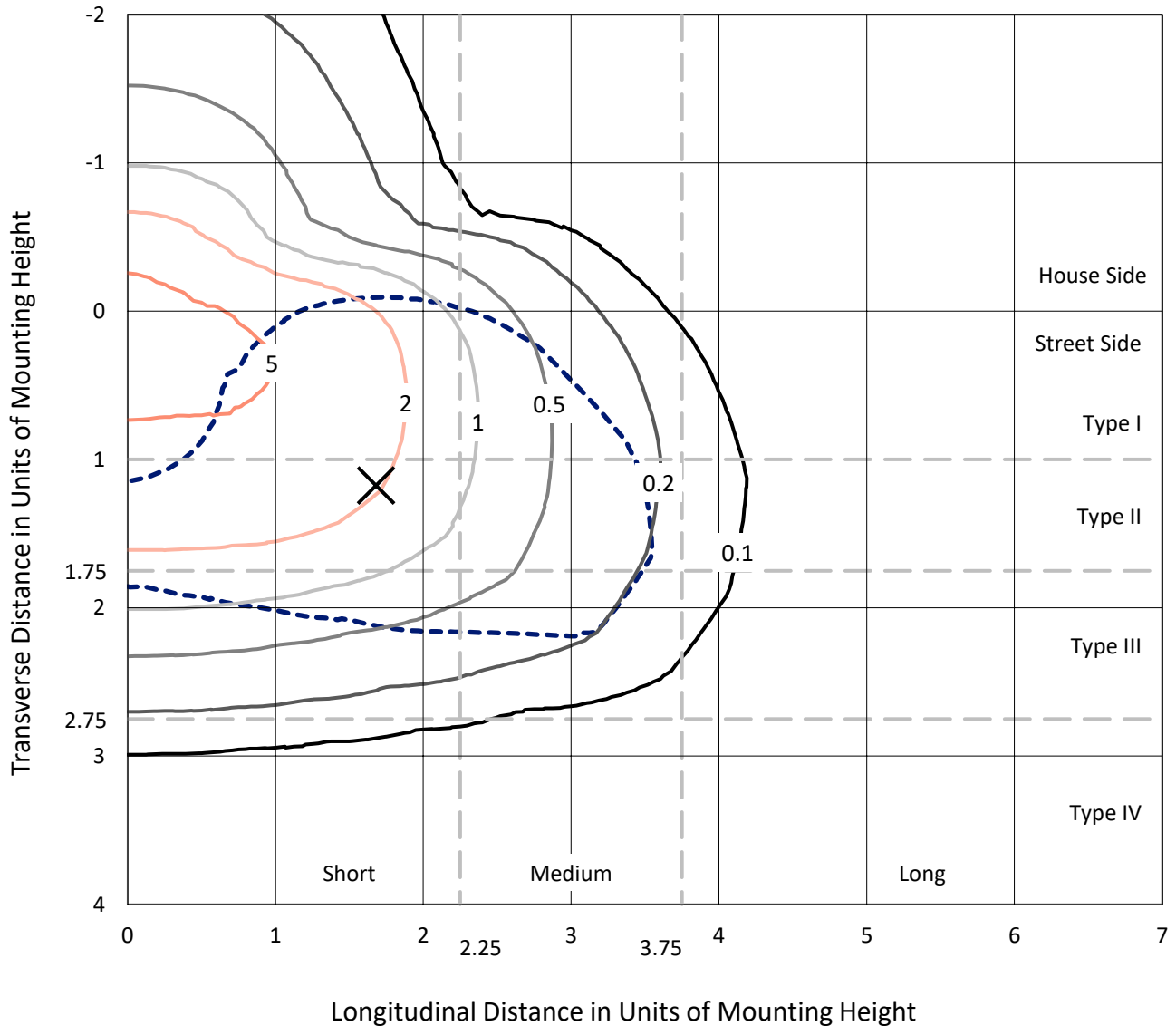
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

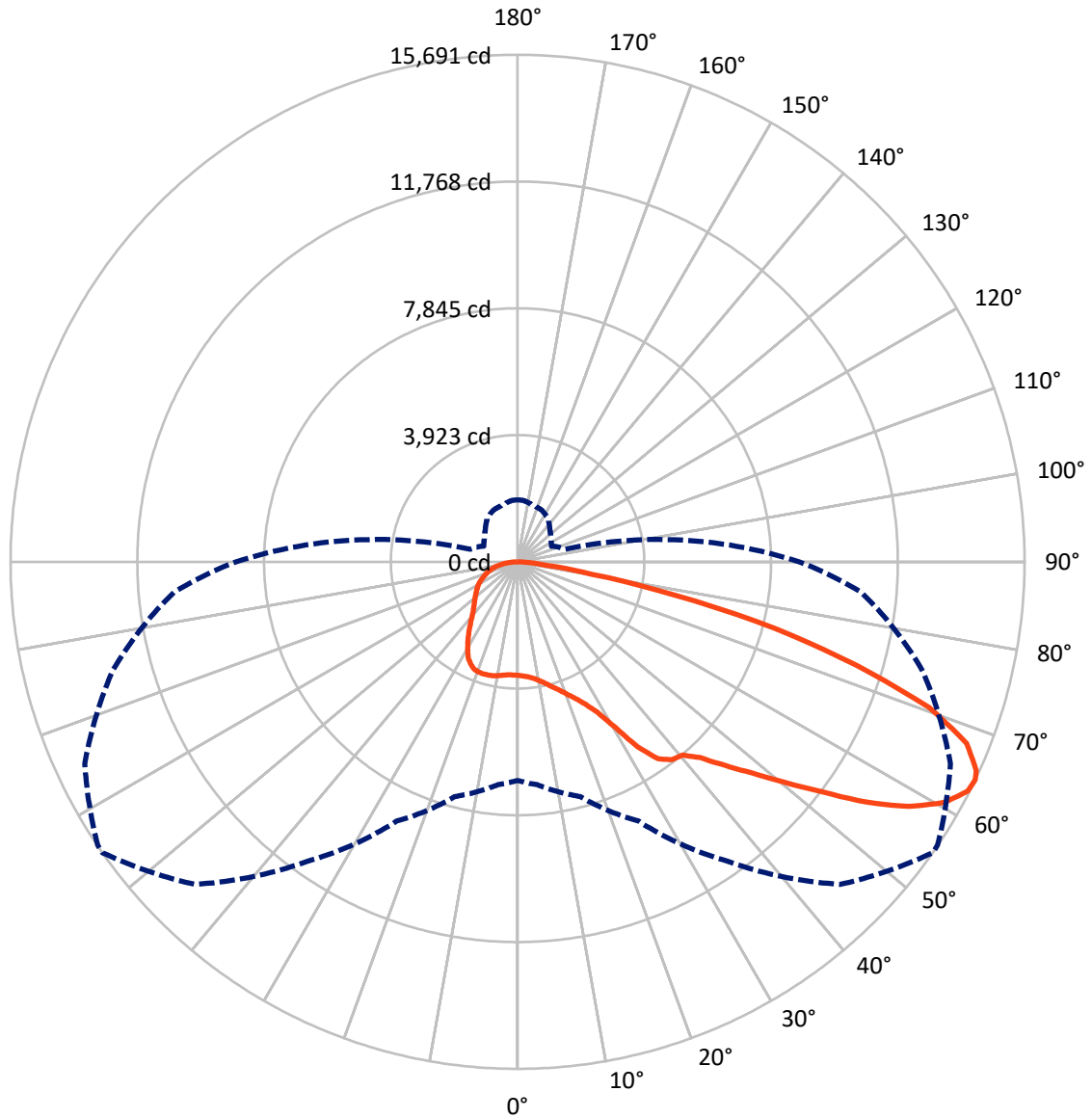
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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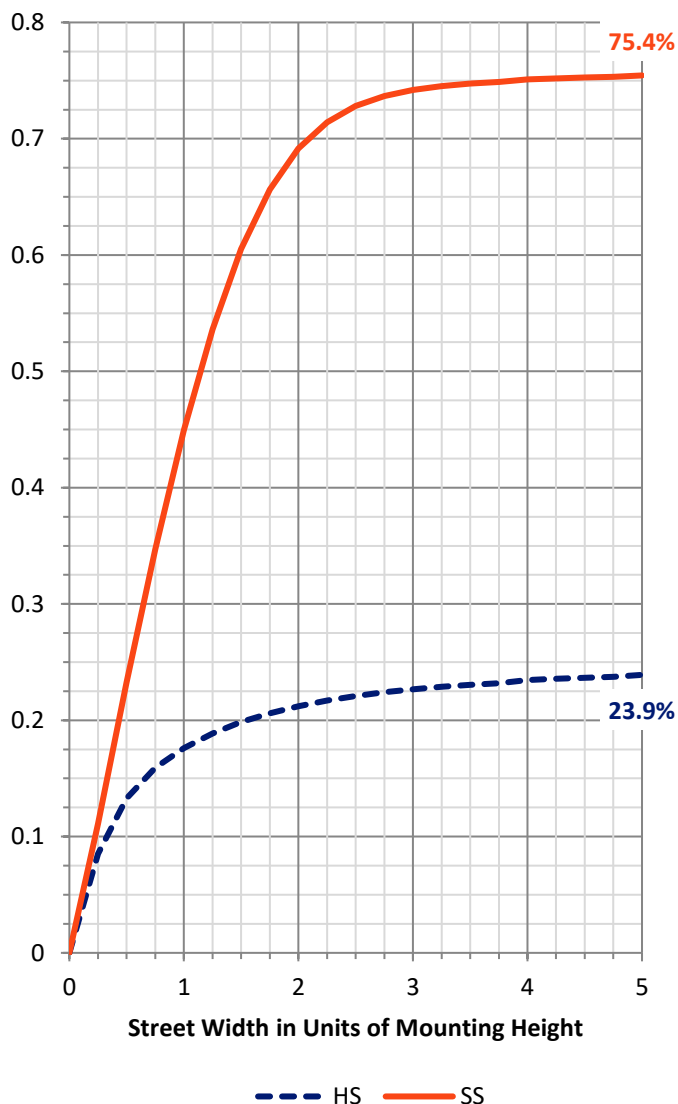
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6364.5	0.0	6364.5
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	19835.5	0.0	19835.5
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	26200.0	0.0	26200.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.9	1.3
10°-20°	1078.9	4.1
20°-30°	1920.8	7.3
30°-40°	2955.3	11.3
40°-50°	4189.4	16.0
50°-60°	6064.0	23.1
60°-70°	6275.6	24.0
70°-80°	2938.9	11.2
80°-90°	435.1	1.7
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°	26200.0	100.0
0°-180°	26200.0	100.0

**Coefficient of Utilization**



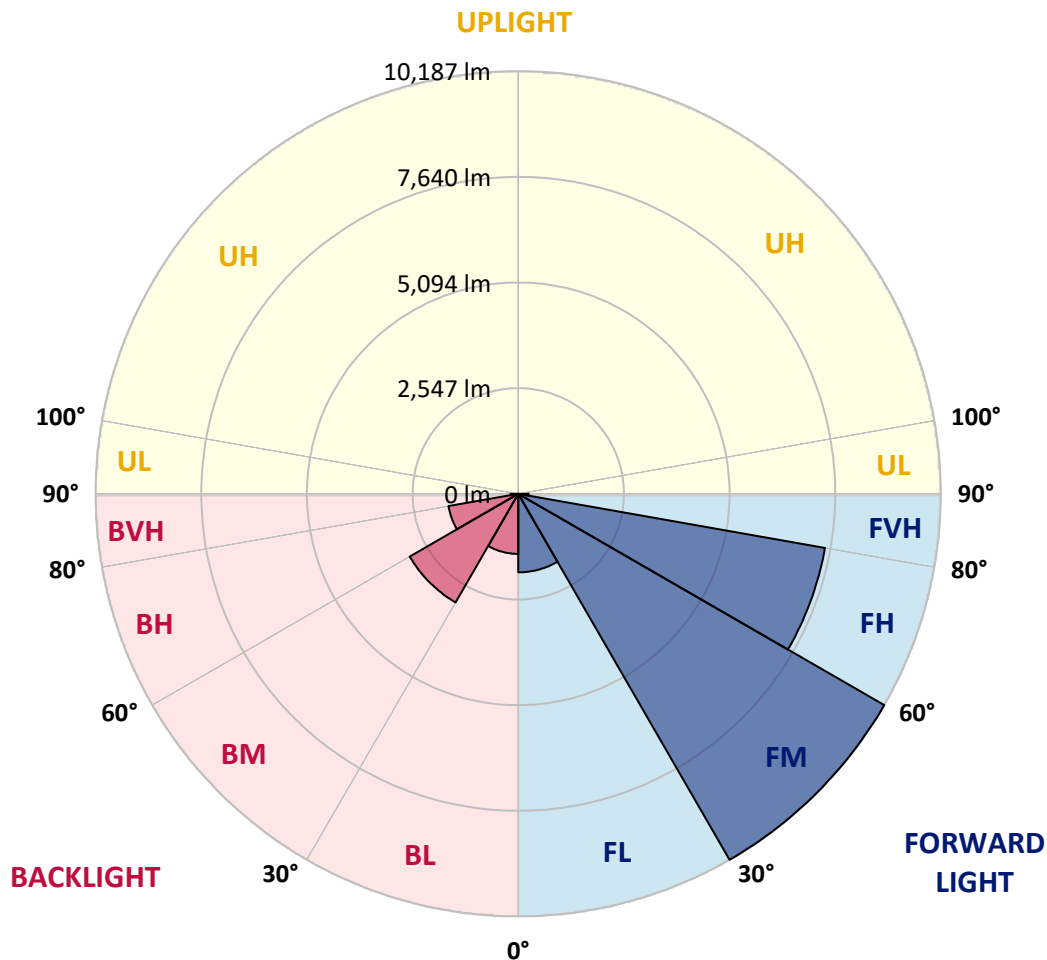
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1892.1	7.2			
FM (30°-60°)	10187.3	38.9			
FH (60°-80°)	7507.1	28.7			G4/12000
FVH (80°-90°)	249.1	1.0			G3/500
BL (0°-30°)	1449.6	5.5	B3/2500		
BM (30°-60°)	3021.5	11.5	B3/5000		
BH (60°-80°)	1707.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	186.0	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3
2.5°	3554.7	3553.3	3557.6	3553.3	3556.2	3545.9	3541.5	3544.5	3540.1	3532.7	3519.7
5°	3598.5	3597.0	3598.5	3592.6	3595.5	3589.7	3579.5	3582.5	3575.1	3559.0	3540.1
7.5°	3673.0	3667.1	3667.1	3665.7	3659.8	3651.1	3643.8	3640.9	3633.5	3613.1	3583.9
10°	3769.4	3769.4	3770.8	3759.1	3766.5	3750.3	3743.1	3741.6	3716.7	3690.5	3649.6
12.5°	3896.4	3903.7	3899.3	3893.5	3890.6	3884.7	3859.9	3865.7	3838.0	3792.7	3743.1
15°	4054.1	4065.8	4058.5	4055.6	4048.3	4026.4	4016.2	4011.8	3975.3	3909.6	3843.8
17.5°	4263.0	4248.4	4242.5	4235.2	4204.6	4188.5	4171.0	4168.1	4136.0	4058.5	3956.3
20°	4445.6	4466.0	4454.3	4447.0	4416.4	4385.7	4372.5	4368.1	4340.4	4255.7	4092.1
22.5°	4663.2	4667.5	4671.9	4654.4	4639.7	4616.4	4593.0	4585.7	4575.5	4487.9	4287.8
25°	4895.3	4912.9	4898.3	4880.8	4863.2	4861.7	4883.6	4880.8	4876.4	4791.6	4547.7
27.5°	5273.6	5289.6	5294.0	5275.1	5207.9	5213.7	5263.4	5279.5	5346.6	5206.4	4882.2
30°	5486.8	5502.8	5539.4	5611.0	5717.5	5811.0	5930.8	5967.3	6031.5	5767.2	5279.5
32.5°	5618.3	5624.1	5689.8	5822.7	6142.6	6491.6	6817.3	6830.4	6871.3	6500.4	5643.1
35°	5825.6	5830.0	5882.6	6028.6	6404.0	6985.2	7489.1	7505.1	7471.5	6728.2	5812.5
37.5°	6081.2	6092.9	6126.5	6247.7	6696.1	7398.5	7768.0	7756.3	7458.4	6909.3	6111.9
40°	6453.6	6453.6	6414.2	6577.7	7004.2	7635.1	7865.9	7845.4	7766.6	7433.6	6567.6
42.5°	6782.2	6776.4	6869.8	6980.8	7389.7	8000.2	8276.2	8309.8	8439.8	8092.2	7086.0
45°	7210.1	7236.4	7288.9	7490.5	8045.5	8623.8	8980.1	9012.3	9196.3	8867.7	7692.0
47.5°	7642.4	7651.2	7816.2	8084.9	8857.5	9469.4	9761.5	9814.0	9982.0	9774.7	8344.9
50°	7949.1	8032.3	8296.7	8720.2	9694.3	10500.4	10728.3	10791.1	11087.5	10761.9	9105.7
52.5°	8273.3	8355.1	8677.8	9323.3	10655.3	11554.9	11835.3	11877.6	12185.8	11760.8	9884.1
55°	8550.8	8626.7	8993.3	9857.9	11420.5	12631.2	13139.4	13089.8	13237.3	12530.4	10484.4
57.5°	8596.1	8657.4	9118.9	10199.6	11996.0	13554.2	14282.9	14312.1	14141.3	13105.9	10979.5
60°	8245.5	8371.1	8901.3	10163.1	12254.4	14196.8	15135.9	15156.3	14671.5	13400.9	11176.6
62.5°	7624.9	7611.7	8252.9	9576.0	11892.3	14342.8	15638.2	15616.3	14878.8	13259.2	10985.3
64°	6767.6	6925.3	7524.1	8854.6	11308.1	14118.0	15690.9	15679.1	14779.5	12964.2	10659.7
65°	6244.8	6236.0	6827.5	8264.6	10726.8	13779.1	15597.4	15581.3	14572.1	12699.9	10407.0
67.5°	4508.4	4528.8	5112.9	6377.7	8720.2	12454.5	14988.3	14928.4	13754.3	11823.6	9446.0
70°	2731.0	2742.7	3201.2	4230.9	6259.4	10068.2	13510.4	13513.3	12502.7	10515.1	8039.6
72.5°	1438.5	1469.2	1653.2	2402.4	3801.5	7064.1	10960.5	11220.5	10734.1	8974.3	6351.4
75°	800.3	804.7	934.7	1184.4	1939.4	3953.4	8238.3	8312.7	8498.2	7223.3	4696.7
77.5°	610.4	619.2	660.1	765.2	1055.9	1832.8	4985.9	5359.8	5989.2	5092.5	2679.9
80°	495.1	503.9	538.9	601.7	702.4	869.0	2316.3	2517.7	3205.6	2260.8	1045.7
82.5°	385.5	379.7	425.0	465.9	511.1	514.0	950.7	1051.5	1305.7	972.6	452.7
85°	286.3	286.3	322.8	314.0	330.0	300.8	419.1	463.0	522.8	413.3	210.3
87.5°	113.9	125.6	211.7	189.9	147.5	118.3	154.8	163.6	181.1	162.1	87.6
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°	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3
2.5°	3521.1	3525.5	3515.3	3507.9	3505.0	3500.6	3496.3	3497.7	3503.5	3509.4	3507.9
5°	3538.6	3540.1	3522.6	3513.8	3507.9	3502.1	3502.1	3506.5	3518.2	3526.9	3526.9
7.5°	3582.5	3582.5	3557.6	3541.5	3532.7	3522.6	3519.7	3521.1	3529.8	3541.5	3543.0
10°	3651.1	3645.3	3613.1	3588.3	3572.2	3547.4	3525.5	3513.8	3518.2	3525.5	3525.5
12.5°	3734.3	3718.2	3677.4	3643.8	3604.3	3557.6	3512.3	3489.0	3487.5	3494.8	3491.9
15°	3823.4	3805.8	3748.9	3687.5	3618.9	3550.3	3496.3	3462.7	3436.4	3429.1	3445.1
17.5°	3927.1	3890.6	3811.7	3727.0	3624.7	3535.7	3451.0	3382.3	3335.6	3322.5	3326.8
20°	4052.7	4004.5	3897.9	3765.0	3620.4	3483.1	3351.7	3259.7	3183.8	3160.3	3163.3
22.5°	4226.5	4143.2	3987.0	3783.9	3583.9	3383.8	3201.2	3081.5	2989.5	2953.0	2974.9
25°	4423.6	4333.0	4071.7	3779.6	3489.0	3224.6	3023.1	2866.8	2783.6	2729.5	2741.2
27.5°	4695.3	4534.6	4162.2	3740.2	3353.1	3030.4	2796.7	2649.2	2573.3	2545.5	2558.7
30°	5042.8	4796.0	4260.1	3633.5	3138.4	2785.1	2568.9	2472.5	2427.2	2392.1	2403.9
32.5°	5294.0	4980.0	4282.0	3453.9	2906.3	2561.6	2414.1	2342.5	2292.9	2259.3	2266.6
35°	5473.6	5136.3	4271.7	3233.4	2663.8	2377.6	2291.4	2233.0	2152.7	2079.6	2066.5
37.5°	5714.6	5332.0	4197.3	2992.4	2424.3	2253.5	2192.1	2084.0	1968.6	1870.8	1866.4
40°	6084.1	5561.3	4038.1	2709.1	2219.9	2161.4	2086.9	1946.8	1822.6	1743.7	1737.9
42.5°	6465.3	5773.1	3821.9	2411.2	2051.9	2065.0	1974.5	1835.7	1759.8	1708.7	1702.9
45°	6931.2	6002.3	3588.3	2152.7	1927.7	1974.5	1876.6	1796.4	1751.0	1717.4	1708.7
47.5°	7435.1	6237.5	3325.4	1920.5	1822.6	1891.3	1835.7	1799.3	1774.4	1751.0	1740.8
50°	7978.3	6500.4	3078.6	1733.6	1727.7	1805.0	1831.4	1818.2	1803.6	1796.4	1787.6
52.5°	8574.2	6769.0	2871.2	1602.1	1644.5	1743.7	1832.8	1843.0	1843.0	1838.6	1832.8
55°	8977.3	6956.0	2660.9	1495.5	1559.7	1694.1	1829.9	1869.3	1884.0	1878.1	1872.2
57.5°	9275.2	7058.3	2396.5	1403.4	1488.2	1645.9	1813.8	1872.2	1886.9	1894.2	1891.3
60°	9336.5	6963.3	2050.4	1307.1	1410.8	1575.8	1755.4	1828.5	1847.4	1892.7	1897.1
62.5°	9060.5	6671.2	1705.8	1212.2	1315.8	1469.2	1676.6	1778.8	1816.8	1886.9	1894.2
64°	8721.7	6344.1	1514.5	1152.3	1254.5	1409.3	1637.2	1765.7	1815.3	1908.8	1914.6
65°	8473.4	6106.1	1394.7	1114.3	1215.1	1369.9	1615.3	1770.0	1828.5	1942.4	1951.2
67.5°	7559.2	5286.7	1153.8	1025.2	1121.6	1302.7	1619.6	1806.5	1825.6	1955.5	1954.1
70°	6255.0	4208.9	966.8	943.4	1031.1	1248.7	1602.1	1748.1	1749.6	1835.7	1815.3
72.5°	4683.6	3110.7	838.3	858.7	930.3	1120.2	1513.0	1669.3	1644.5	1656.1	1635.7
75°	3217.3	2057.7	721.5	768.2	825.1	990.2	1387.4	1515.9	1476.5	1461.9	1447.3
77.5°	1717.4	1137.7	600.2	679.1	717.1	855.8	1210.7	1334.9	1293.9	1237.0	1218.0
80°	695.1	536.0	483.4	562.3	584.2	689.4	1007.7	1085.1	1054.5	955.1	923.0
82.5°	349.1	321.3	379.7	442.5	444.0	492.2	749.2	822.2	753.6	632.4	604.6
85°	182.5	188.4	261.4	311.1	274.6	265.8	449.8	498.0	457.1	397.2	357.8
87.5°	65.7	76.0	137.3	135.9	96.4	51.1	99.3	48.2	26.3	16.1	20.4
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)