

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: P648400

Luminaire Tested: **GALN-SA4B-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648400  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-835-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15385.9 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

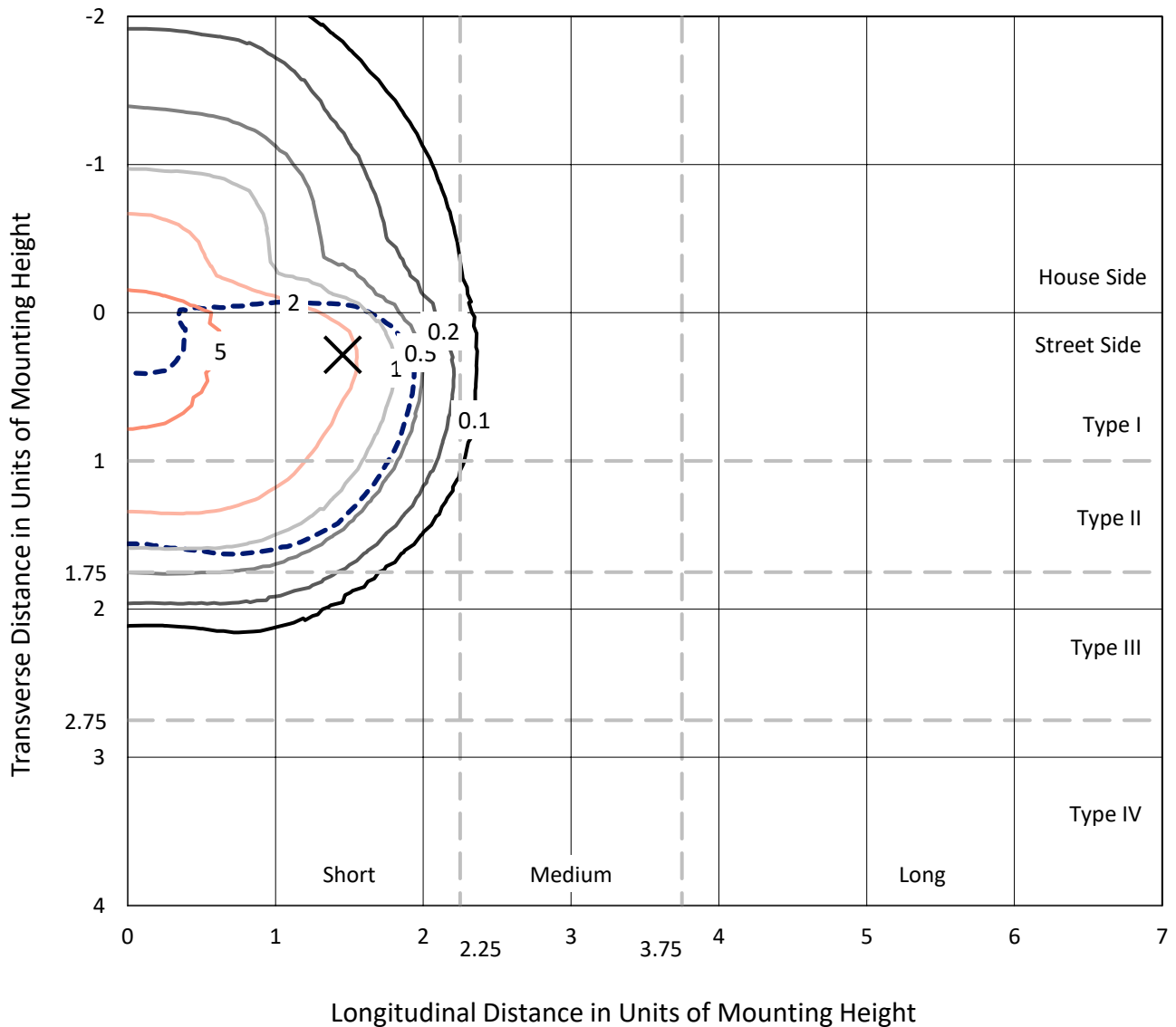
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

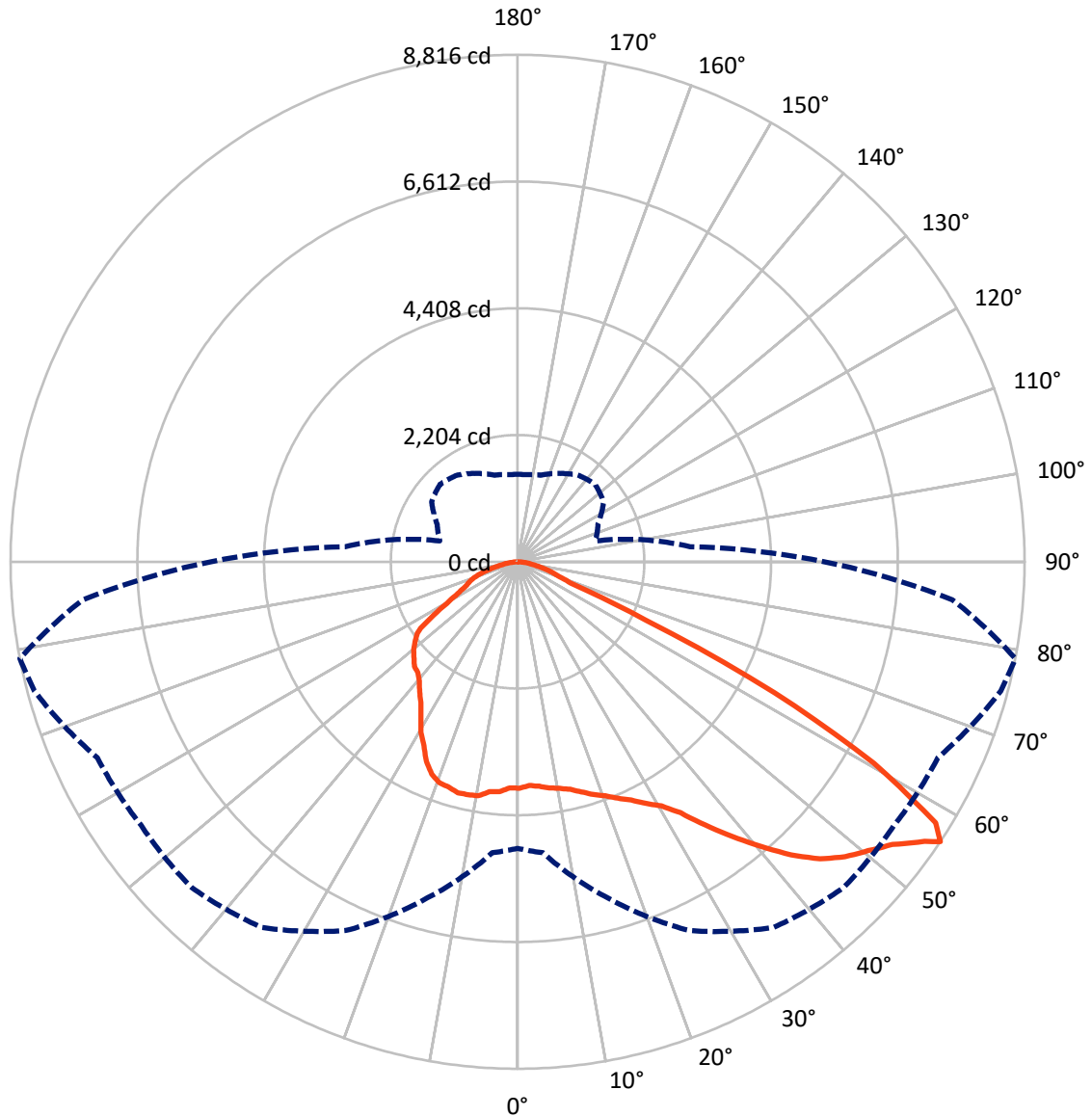
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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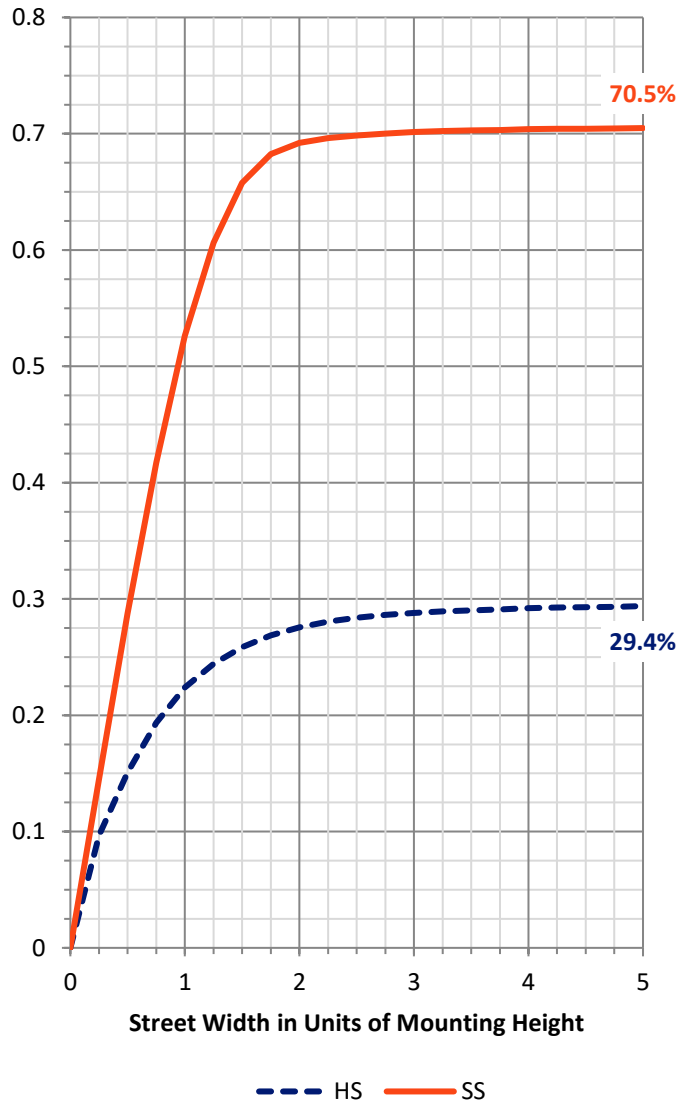
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4543.8	0.0	4543.8
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	10842.1	0.0	10842.1
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	15385.9	0.0	15385.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.9	2.3
10°-20°	979.5	6.4
20°-30°	1675.8	10.9
30°-40°	2568.3	16.7
40°-50°	3471.1	22.6
50°-60°	3986.6	25.9
60°-70°	1817.2	11.8
70°-80°	448.0	2.9
80°-90°	81.4	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°	15385.9	100.0
0°-180°	15385.9	100.0

**Coefficient of Utilization**

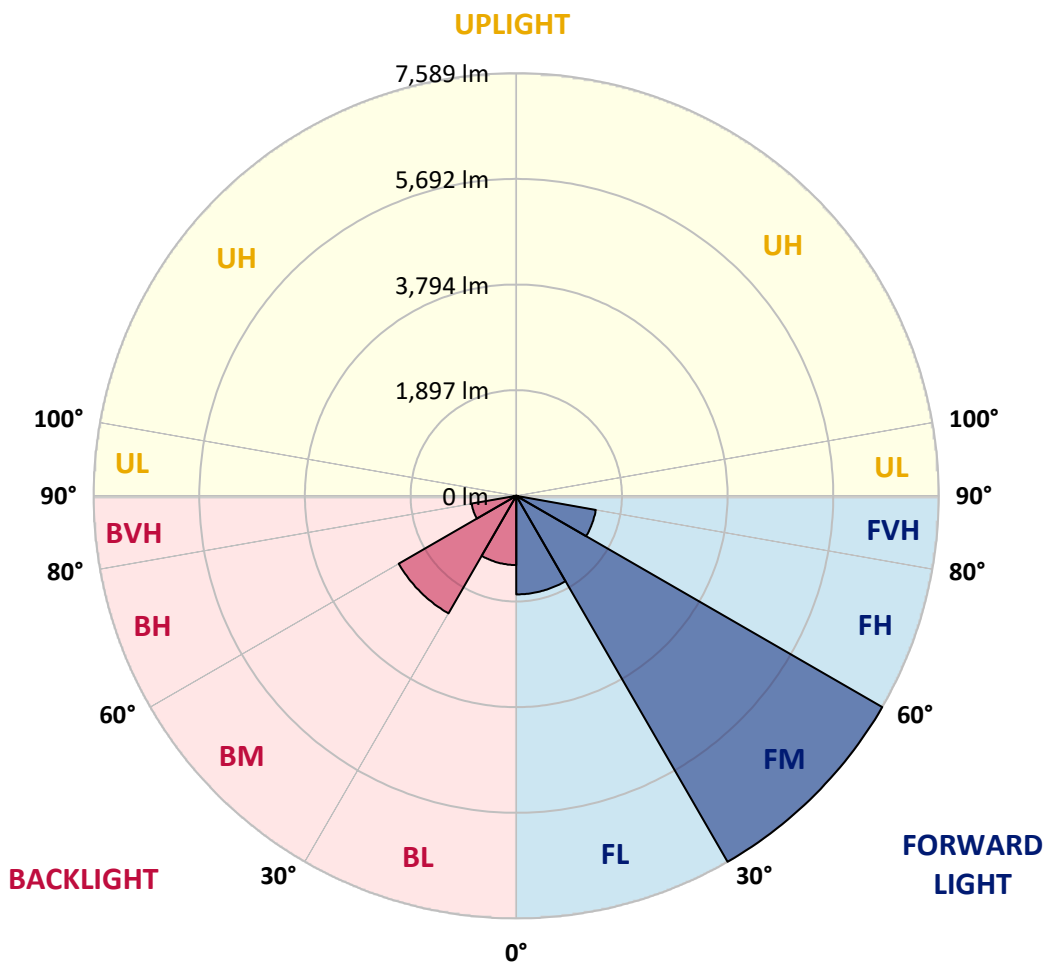


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1770.3	11.5			
FM (30°-60°)	7588.8	49.3			
FH (60°-80°)	1450.5	9.4			G1/1800
FVH (80°-90°)	32.5	0.2			G1/100
BL (0°-30°)	1242.9	8.1	B3/2500		
BM (30°-60°)	2437.2	15.8	B2/2500		
BH (60°-80°)	814.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	48.9	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°	79°	85°
0°	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7
2.5°	3745.0	3735.4	3758.4	3775.6	3796.8	3823.5	3837.0	3844.7	3911.7	3894.5	3946.2
5°	3664.5	3639.6	3656.8	3670.2	3706.6	3739.2	3775.6	3833.2	3894.5	3921.3	3984.6
7.5°	3593.6	3580.2	3576.4	3585.9	3635.8	3677.9	3741.2	3825.5	3925.2	3969.3	4005.7
10°	3476.7	3457.5	3486.2	3549.5	3562.9	3651.1	3723.9	3844.7	3930.9	4007.6	4114.9
12.5°	3424.9	3405.7	3411.5	3447.9	3541.8	3626.2	3712.4	3848.5	4030.6	4061.3	4204.9
15°	3507.4	3488.2	3493.9	3484.4	3574.4	3618.5	3754.6	3925.2	4099.6	4151.3	4304.6
17.5°	3695.1	3697.1	3672.2	3651.1	3630.0	3723.9	3817.8	3971.1	4126.4	4256.7	4371.7
20°	4053.6	3990.3	3940.5	3821.7	3789.1	3829.3	3948.1	4095.7	4235.6	4343.0	4473.3
22.5°	4329.5	4335.3	4264.4	4068.9	3998.0	4015.2	4116.8	4237.6	4390.9	4467.6	4617.0
25°	4730.1	4689.9	4613.2	4457.9	4298.9	4312.3	4387.1	4496.3	4538.4	4592.1	4755.0
27.5°	5096.2	5107.7	4956.3	4810.6	4613.2	4574.9	4709.0	4728.2	4657.3	4758.8	4814.4
30°	5468.0	5458.4	5358.8	5188.2	4994.6	5002.3	5061.7	4967.7	4870.0	4925.6	4963.9
32.5°	5853.2	5744.0	5740.2	5586.9	5439.3	5368.3	5295.5	5341.5	5190.1	5201.6	5165.2
35°	6161.8	6177.2	6089.0	5979.7	5906.9	5782.3	5583.0	5665.4	5636.7	5623.3	5466.1
37.5°	6386.1	6326.6	6370.7	6334.3	6265.3	6110.1	5903.0	5981.7	5995.0	6060.3	5878.1
40°	6570.1	6545.1	6662.0	6681.2	6633.3	6297.9	5926.1	6159.9	6361.1	6503.0	6286.4
42.5°	6658.2	6711.9	6834.5	6982.1	6874.7	6516.4	6044.9	6295.9	6744.4	6968.7	6673.5
45°	6777.0	6708.0	6890.1	7160.4	7162.3	6700.4	6159.9	6480.0	7043.4	7369.3	6938.0
47.5°	6656.3	6690.8	6878.6	7221.7	7309.9	6893.9	6470.4	6740.6	7373.1	7662.5	7183.3
50°	6386.1	6455.1	6798.1	7154.6	7421.0	7099.0	6826.8	7022.3	7677.8	7898.2	7223.6
52.5°	6104.3	6142.6	6679.3	7206.3	7470.8	7363.5	7304.1	7411.4	8049.6	8164.7	7273.4
55°	5337.7	5519.8	6286.4	7183.3	7714.3	7840.7	7794.8	7951.9	8471.3	8586.3	7545.6
56°	4983.1	5078.9	6050.6	7076.0	7762.1	8015.1	7992.2	8063.0	8695.5	8816.3	7587.7
57.5°	4327.6	4335.3	5159.4	6600.7	7582.0	8066.9	8043.9	8099.4	8651.4	8569.0	7217.9
60°	2708.2	2826.9	3511.2	5077.1	6447.4	7484.2	7614.6	7168.0	7294.5	7120.1	5615.6
62.5°	1402.9	1385.7	1839.9	2968.7	4279.7	5358.8	5479.5	5458.4	5262.9	5008.0	3668.4
65°	699.5	703.4	962.2	1470.0	2192.6	2805.9	3143.2	3179.6	2660.2	2447.5	1740.2
67.5°	507.9	527.0	691.9	898.9	1033.0	1155.7	1416.4	1389.5	1052.2	1000.4	927.6
70°	394.8	412.1	561.6	686.1	622.9	622.9	678.5	701.5	749.4	770.5	795.4
72.5°	287.5	300.9	429.3	473.4	408.3	438.9	507.9	561.6	611.4	619.0	647.8
75°	197.4	208.9	281.7	260.7	245.3	302.8	371.8	421.6	458.1	477.2	494.5
77.5°	128.4	132.2	161.0	136.1	157.1	195.5	241.5	283.7	320.1	335.4	339.2
80°	57.5	63.3	69.0	86.2	109.2	139.9	172.5	207.0	230.0	235.8	247.3
82.5°	32.6	32.6	42.2	61.3	80.5	101.6	124.6	149.5	176.3	182.0	180.2
85°	17.2	17.2	24.9	36.4	49.8	59.4	57.5	59.4	63.3	72.8	70.9
87.5°	5.7	5.7	7.7	7.7	9.6	11.5	9.6	13.4	17.2	17.2	17.2
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°	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7
2.5°	3930.9	3948.1	3925.2	3975.0	3975.0	3965.4	3917.5	3932.9	3944.3	3944.3	3953.9
5°	4005.7	3999.9	4015.2	3955.8	3919.4	3906.0	3827.4	3789.1	3756.5	3754.6	3725.8
7.5°	4047.8	4032.4	4026.7	3982.7	3821.7	3723.9	3555.3	3457.5	3436.4	3361.7	3390.5
10°	4114.9	4143.6	4114.9	3875.3	3651.1	3426.9	3262.1	3110.6	3051.2	3003.3	2974.5
12.5°	4252.9	4239.5	4072.7	3748.8	3434.5	3168.1	2922.8	2763.7	2704.3	2662.1	2658.3
15°	4369.8	4302.7	4047.8	3549.5	3097.2	2813.6	2612.3	2499.3	2472.4	2476.2	2493.5
17.5°	4410.0	4364.1	3917.5	3342.5	2846.1	2512.6	2418.7	2401.5	2426.4	2455.2	2462.8
20°	4473.3	4400.5	3863.8	3060.7	2535.7	2324.8	2319.1	2380.4	2426.4	2468.6	2474.3
22.5°	4605.5	4421.5	3689.4	2794.4	2322.9	2269.2	2324.8	2376.6	2447.5	2482.0	2451.3
25°	4643.9	4375.6	3444.1	2474.3	2188.7	2234.8	2294.1	2365.1	2414.9	2434.0	2447.5
27.5°	4676.5	4304.6	3112.5	2261.5	2146.6	2232.8	2294.1	2353.5	2380.4	2397.6	2413.0
30°	4768.5	4283.6	2825.1	2119.7	2119.7	2194.5	2273.0	2288.4	2324.8	2345.9	2372.7
32.5°	4814.4	4137.9	2529.9	2029.7	2092.9	2213.6	2219.4	2248.1	2250.0	2267.3	2238.6
35°	4935.2	4034.4	2255.8	1964.5	2104.4	2194.5	2223.3	2205.9	2112.1	2066.1	2075.7
37.5°	5023.3	3982.7	2058.4	1956.8	2106.3	2215.6	2230.9	2100.6	2002.8	1926.2	1945.4
40°	5261.0	3854.2	1908.9	1943.4	2123.6	2238.6	2196.4	2054.6	1878.3	1799.6	1786.3
42.5°	5443.1	3762.2	1815.0	1928.1	2137.0	2271.2	2179.2	1962.6	1782.4	1709.6	1728.8
45°	5653.9	3741.2	1765.2	1931.9	2160.0	2288.4	2158.1	1891.6	1700.0	1671.2	1665.5
47.5°	5728.7	3589.7	1711.5	1899.3	2154.3	2282.7	2087.2	1838.0	1669.4	1673.2	1688.5
50°	5604.1	3434.5	1671.2	1832.2	2115.9	2230.9	1976.0	1767.1	1652.1	1700.0	1726.8
52.5°	5445.0	3275.4	1588.9	1742.2	2037.3	2150.4	1924.2	1763.2	1634.8	1619.5	1625.3
55°	5492.9	3145.1	1473.8	1619.5	1910.8	2000.9	1866.8	1726.8	1592.7	1535.1	1554.3
56°	5337.7	3010.9	1399.1	1542.8	1824.5	1905.1	1838.0	1694.3	1558.2	1519.9	1519.9
57.5°	4898.8	2560.6	1301.3	1420.2	1642.5	1738.3	1782.4	1675.1	1519.9	1452.8	1454.7
60°	3612.8	1820.8	1167.2	1251.5	1360.8	1437.4	1642.5	1621.4	1424.0	1378.0	1360.8
62.5°	2227.1	1330.1	1071.4	1104.0	1159.5	1222.8	1433.6	1468.1	1322.4	1272.6	1261.1
65°	1247.7	1017.7	998.6	1011.9	1038.8	1071.4	1190.2	1266.9	1167.2	1090.6	1086.7
67.5°	912.3	910.4	925.7	937.2	948.7	948.7	977.4	1008.1	994.7	933.3	927.6
70°	810.7	816.4	827.9	829.9	833.7	820.3	797.3	787.7	803.0	764.7	757.1
72.5°	668.9	688.0	701.5	703.4	682.3	665.1	634.4	601.8	590.3	582.6	580.8
75°	513.6	527.0	532.8	530.9	523.2	498.3	461.9	429.3	408.3	385.2	396.7
77.5°	346.9	366.1	375.7	375.7	364.2	325.8	308.6	283.7	262.5	237.6	241.5
80°	243.4	256.8	272.2	270.2	251.1	231.9	207.0	184.0	166.8	147.6	145.6
82.5°	182.0	189.7	197.4	193.6	180.2	161.0	143.8	122.7	103.5	90.0	90.0
85°	65.1	70.9	86.2	90.0	97.7	97.7	82.4	69.0	55.6	46.0	46.0
87.5°	19.2	19.2	21.1	21.1	19.2	21.1	17.2	19.2	21.1	13.4	13.4
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)