

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: P529130

Luminaire Tested: **GALN-SA4B-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529130  
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-730-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 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: 17895 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

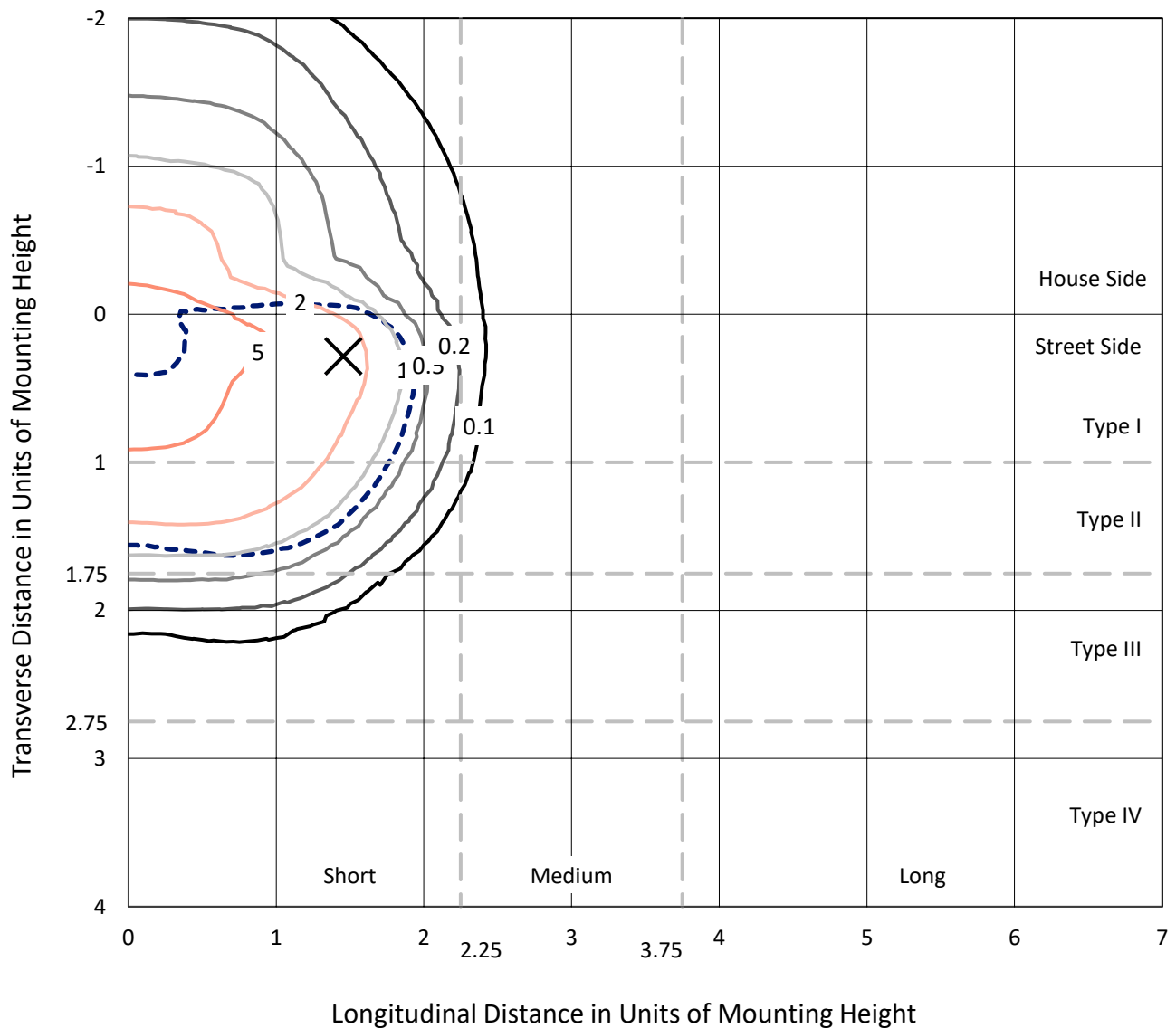
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

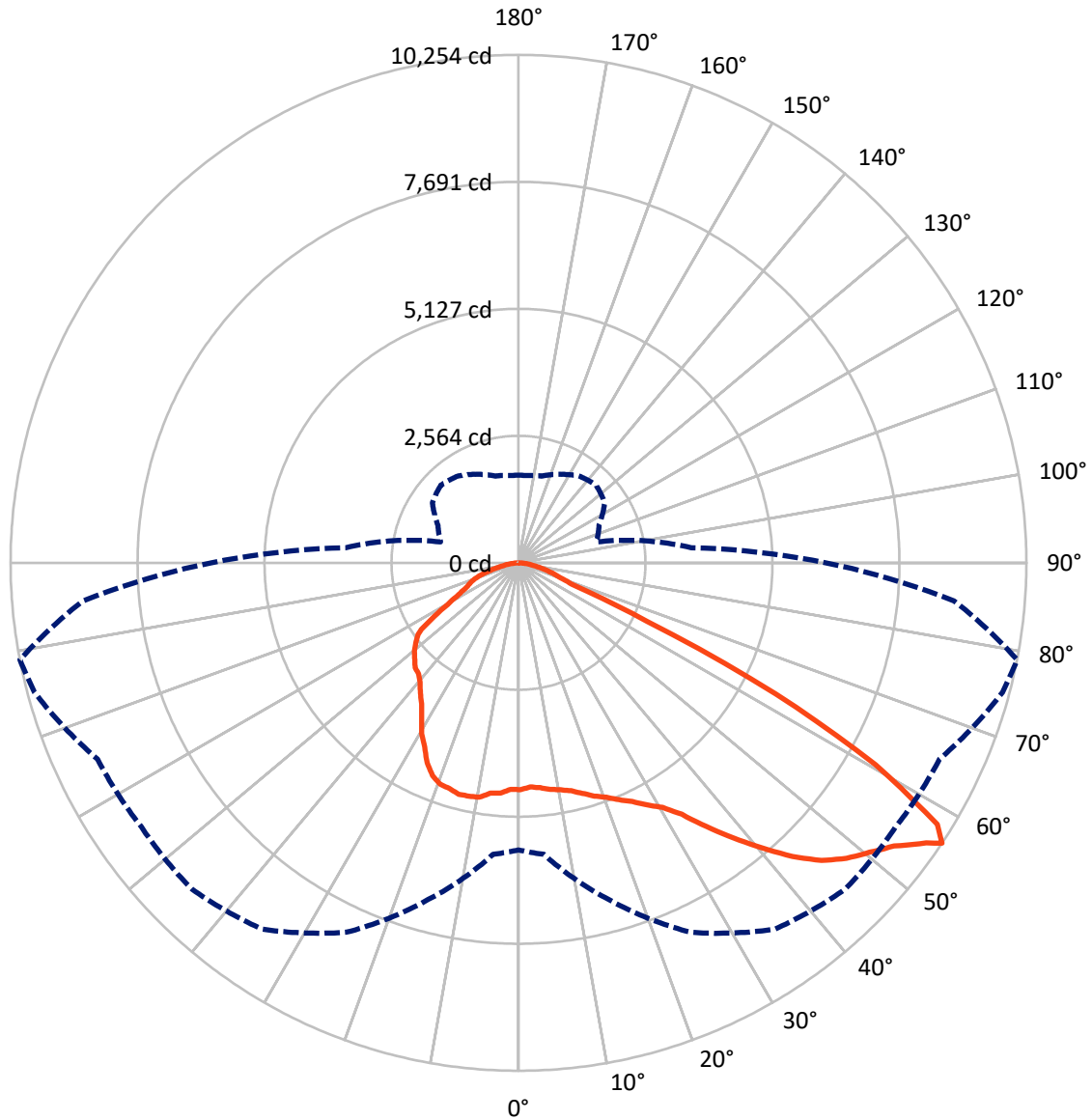
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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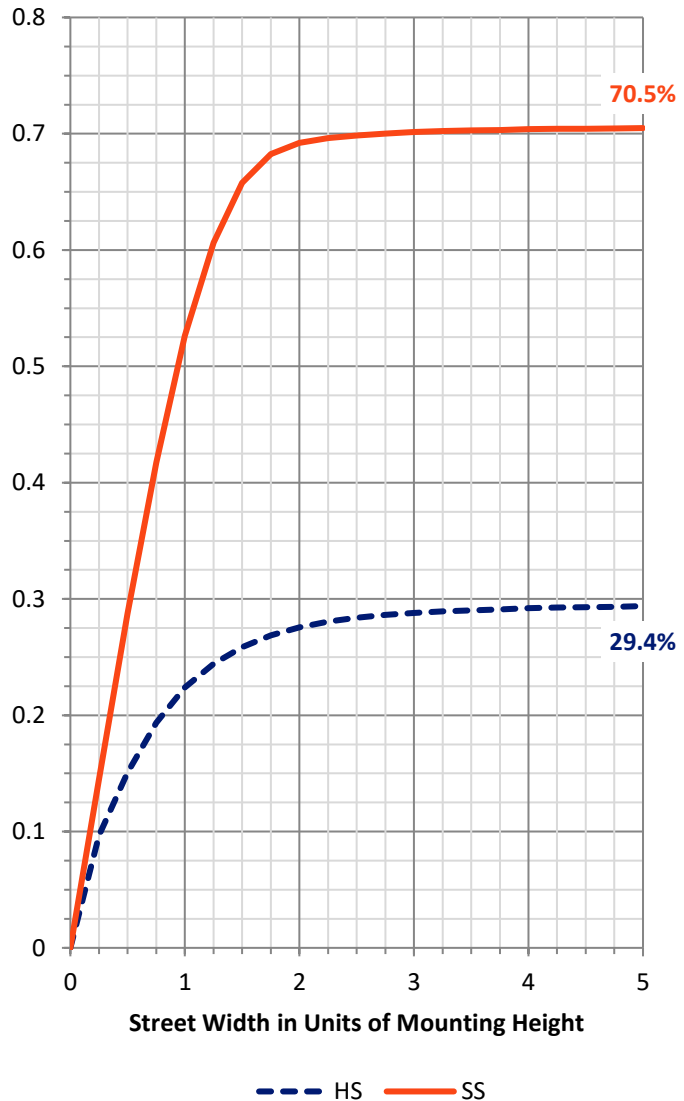
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5284.8	0.0	5284.8
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	12610.2	0.0	12610.2
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	17895.0	0.0	17895.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.3	2.3
10°-20°	1139.3	6.4
20°-30°	1949.0	10.9
30°-40°	2987.2	16.7
40°-50°	4037.1	22.6
50°-60°	4636.8	25.9
60°-70°	2113.6	11.8
70°-80°	521.1	2.9
80°-90°	94.7	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°	17895.0	100.0
0°-180°	17895.0	100.0

**Coefficient of Utilization**



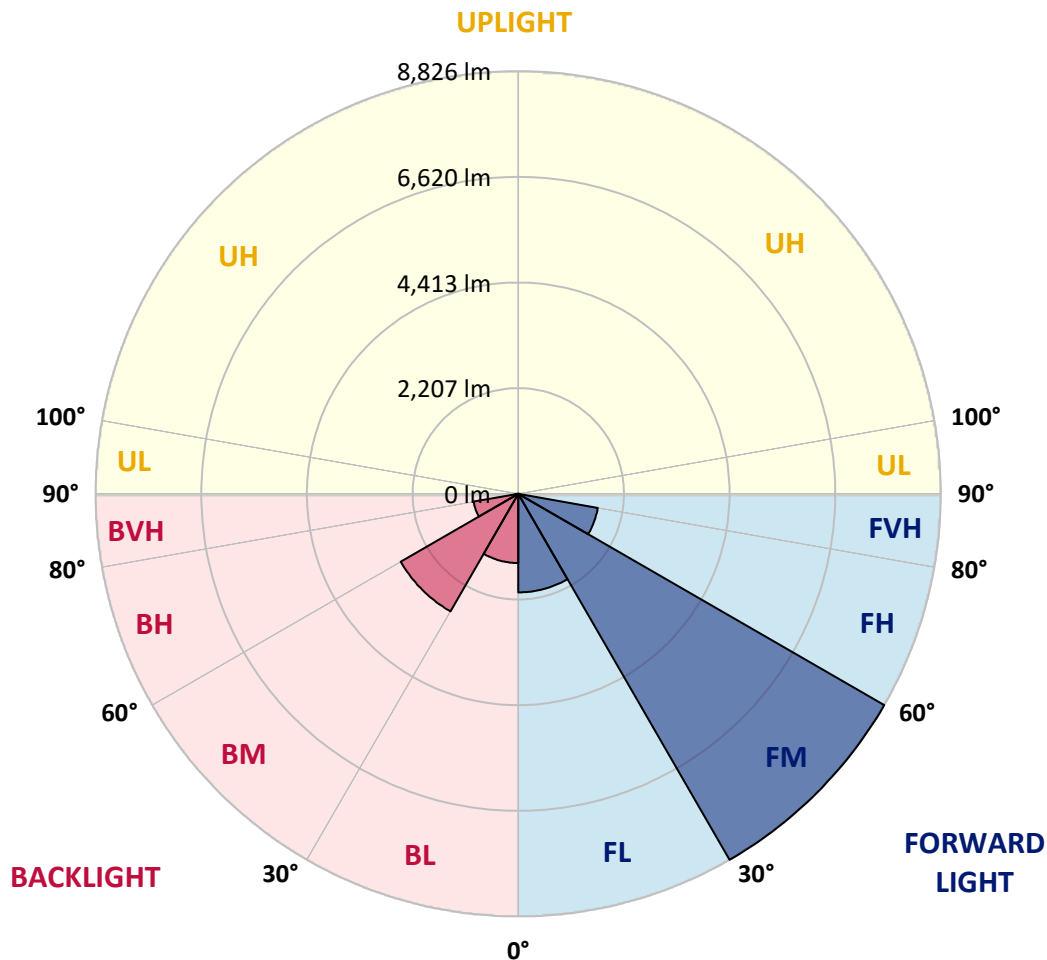
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2059.0	11.5			
FM (30°-60°)	8826.3	49.3			
FH (60°-80°)	1687.1	9.4			G1/1800
FVH (80°-90°)	37.8	0.2			G1/100
BL (0°-30°)	1445.6	8.1	B3/2500		
BM (30°-60°)	2834.7	15.8	B3/5000		
BH (60°-80°)	947.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	56.9	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°	4578.6	4578.6	4578.6	4578.6	4578.6	4578.6	4578.6	4578.6	4578.6	4578.6	4578.6
2.5°	4355.7	4344.6	4371.3	4391.4	4415.9	4447.1	4462.7	4471.6	4549.6	4529.6	4589.8
5°	4262.1	4233.1	4253.2	4268.8	4311.1	4349.0	4391.4	4458.2	4529.6	4560.8	4634.3
7.5°	4179.6	4164.0	4159.5	4170.7	4228.6	4277.7	4351.3	4449.3	4565.2	4616.5	4658.9
10°	4043.6	4021.3	4054.8	4128.3	4143.9	4246.5	4331.2	4471.6	4571.9	4661.1	4785.9
12.5°	3983.4	3961.2	3967.8	4010.2	4119.4	4217.5	4317.8	4476.1	4687.8	4723.5	4890.7
15°	4079.3	4057.0	4063.7	4052.5	4157.3	4208.6	4366.9	4565.2	4768.1	4828.3	5006.6
17.5°	4297.8	4300.0	4271.0	4246.5	4222.0	4331.2	4440.4	4618.7	4799.3	4950.9	5084.6
20°	4714.6	4641.0	4583.1	4444.9	4407.0	4453.8	4592.0	4763.6	4926.4	5051.2	5202.8
22.5°	5035.6	5042.3	4959.8	4732.4	4650.0	4670.0	4788.2	4928.6	5106.9	5196.1	5370.0
25°	5501.5	5454.7	5365.5	5184.9	4999.9	5015.5	5102.5	5229.5	5278.6	5341.0	5530.5
27.5°	5927.2	5940.6	5764.5	5595.1	5365.5	5320.9	5477.0	5499.3	5416.8	5534.9	5599.6
30°	6359.7	6348.5	6232.6	6034.2	5809.1	5818.0	5887.1	5777.9	5664.2	5728.9	5773.4
32.5°	6807.7	6680.7	6676.2	6497.9	6326.3	6243.8	6159.1	6212.6	6036.5	6049.8	6007.5
35°	7166.6	7184.5	7081.9	6954.9	6870.2	6725.3	6493.4	6589.3	6555.9	6540.3	6357.5
37.5°	7427.4	7358.3	7409.6	7367.3	7287.0	7106.4	6865.7	6957.1	6972.7	7048.5	6836.7
40°	7641.4	7612.5	7748.4	7770.7	7715.0	7324.9	6892.5	7164.4	7398.5	7563.4	7311.5
42.5°	7744.0	7806.4	7949.1	8120.7	7995.9	7579.0	7030.7	7322.7	7844.3	8105.1	7761.8
45°	7882.2	7801.9	8013.7	8328.0	8330.2	7793.0	7164.4	7536.7	8192.0	8571.0	8069.4
47.5°	7741.7	7781.9	8000.3	8399.3	8501.9	8018.2	7525.5	7839.8	8575.4	8912.0	8354.8
50°	7427.4	7507.7	7906.7	8321.3	8631.2	8256.7	7940.1	8167.5	8929.9	9186.2	8401.6
52.5°	7099.8	7144.3	7768.5	8381.5	8689.1	8564.3	8495.2	8620.0	9362.3	9496.1	8459.5
55°	6208.1	6419.9	7311.5	8354.8	8972.2	9119.3	9065.8	9248.6	9852.7	9986.5	8776.1
56°	5795.7	5907.2	7037.3	8229.9	9028.0	9322.2	9295.4	9377.9	10113.5	10254.0	8825.1
57.5°	5033.4	5042.3	6000.8	7677.1	8818.4	9382.4	9355.6	9420.3	10062.3	9966.4	8394.9
60°	3149.8	3288.0	4083.8	5905.0	7498.8	8704.7	8856.3	8336.9	8484.0	8281.2	6531.3
62.5°	1631.7	1611.7	2140.0	3452.9	4977.6	6232.6	6373.1	6348.5	6121.2	5824.7	4266.5
65°	813.6	818.1	1119.0	1709.7	2550.1	3263.4	3655.8	3698.1	3094.0	2846.6	2024.0
67.5°	590.7	613.0	804.7	1045.5	1201.5	1344.2	1647.3	1616.1	1223.8	1163.6	1078.9
70°	459.2	479.3	653.1	798.0	724.5	724.5	789.1	815.9	871.6	896.1	925.1
72.5°	334.4	350.0	499.3	550.6	474.8	510.5	590.7	653.1	711.1	720.0	753.4
75°	229.6	243.0	327.7	303.2	285.3	352.2	432.5	490.4	532.8	555.1	575.1
77.5°	149.4	153.8	187.2	158.3	182.8	227.4	280.9	329.9	372.3	390.1	394.6
80°	66.9	73.6	80.2	100.3	127.1	162.7	200.6	240.7	267.5	274.2	287.6
82.5°	37.9	37.9	49.0	71.3	93.6	118.1	144.9	173.9	205.1	211.8	209.5
85°	20.1	20.1	29.0	42.4	58.0	69.1	66.9	69.1	73.6	84.7	82.5
87.5°	6.7	6.7	8.9	8.9	11.1	13.4	11.1	15.6	20.1	20.1	20.1
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°	4578.6	4578.6	4578.6	4578.6	4578.6	4578.6	4578.6	4578.6	4578.6	4578.6	4578.6
2.5°	4571.9	4592.0	4565.2	4623.2	4623.2	4612.1	4556.3	4574.2	4587.5	4587.5	4598.7
5°	4658.9	4652.2	4670.0	4600.9	4558.6	4543.0	4451.6	4407.0	4369.1	4366.9	4333.4
7.5°	4707.9	4690.1	4683.4	4632.1	4444.9	4331.2	4135.0	4021.3	3996.8	3909.9	3943.3
10°	4785.9	4819.4	4785.9	4507.3	4246.5	3985.7	3794.0	3617.9	3548.8	3493.0	3459.6
12.5°	4946.4	4930.8	4736.9	4360.2	3994.6	3684.7	3399.4	3214.4	3145.3	3096.3	3091.8
15°	5082.4	5004.4	4707.9	4128.3	3602.3	3272.4	3038.3	2906.8	2875.6	2880.0	2900.1
17.5°	5129.2	5075.7	4556.3	3887.6	3310.2	2922.4	2813.2	2793.1	2822.1	2855.5	2864.4
20°	5202.8	5118.1	4493.9	3559.9	2949.1	2703.9	2697.2	2768.6	2822.1	2871.1	2877.8
22.5°	5356.6	5142.6	4291.1	3250.1	2701.7	2639.3	2703.9	2764.1	2846.6	2886.7	2851.1
25°	5401.2	5089.1	4005.7	2877.8	2545.7	2599.2	2668.3	2750.7	2808.7	2831.0	2846.6
27.5°	5439.1	5006.6	3620.1	2630.4	2496.6	2596.9	2668.3	2737.4	2768.6	2788.6	2806.5
30°	5546.1	4982.1	3285.7	2465.4	2465.4	2552.3	2643.7	2661.6	2703.9	2728.4	2759.7
32.5°	5599.6	4812.7	2942.4	2360.6	2434.2	2574.6	2581.3	2614.8	2617.0	2637.1	2603.6
35°	5740.0	4692.3	2623.7	2284.9	2447.6	2552.3	2585.8	2565.7	2456.5	2403.0	2414.1
37.5°	5842.5	4632.1	2394.1	2275.9	2449.8	2576.9	2594.7	2443.1	2329.4	2240.3	2262.6
40°	6118.9	4482.8	2220.2	2260.3	2469.9	2603.6	2554.6	2389.6	2184.5	2093.1	2077.5
42.5°	6330.7	4375.8	2111.0	2242.5	2485.5	2641.5	2534.5	2282.6	2073.1	1988.4	2010.7
45°	6575.9	4351.3	2053.0	2247.0	2512.2	2661.6	2510.0	2200.1	1977.2	1943.8	1937.1
47.5°	6662.9	4175.2	1990.6	2209.1	2505.5	2654.9	2427.5	2137.7	1941.6	1946.0	1963.9
50°	6518.0	3994.6	1943.8	2131.0	2461.0	2594.7	2298.2	2055.3	1921.5	1977.2	2008.4
52.5°	6332.9	3809.6	1847.9	2026.3	2369.6	2501.1	2238.0	2050.8	1901.4	1883.6	1890.3
55°	6388.7	3658.0	1714.2	1883.6	2222.4	2327.2	2171.2	2008.4	1852.4	1785.5	1807.8
56°	6208.1	3502.0	1627.3	1794.4	2122.1	2215.7	2137.7	1970.5	1812.3	1767.7	1767.7
57.5°	5697.6	2978.1	1513.6	1651.8	1910.4	2021.8	2073.1	1948.3	1767.7	1689.7	1691.9
60°	4201.9	2117.7	1357.5	1455.6	1582.7	1671.8	1910.4	1885.8	1656.2	1602.7	1582.7
62.5°	2590.2	1547.0	1246.1	1284.0	1348.6	1422.2	1667.4	1707.5	1538.1	1480.1	1466.8
65°	1451.2	1183.7	1161.4	1177.0	1208.2	1246.1	1384.3	1473.5	1357.5	1268.4	1263.9
67.5°	1061.1	1058.8	1076.7	1090.0	1103.4	1103.4	1136.9	1172.5	1156.9	1085.6	1078.9
70°	942.9	949.6	963.0	965.2	969.7	954.1	927.3	916.2	934.0	889.4	880.5
72.5°	778.0	800.3	815.9	818.1	793.6	773.5	737.8	699.9	686.6	677.7	675.4
75°	597.4	613.0	619.7	617.5	608.6	579.6	537.2	499.3	474.8	448.1	461.4
77.5°	403.5	425.8	436.9	436.9	423.5	379.0	358.9	329.9	305.4	276.4	280.9
80°	283.1	298.7	316.5	314.3	292.0	269.7	240.7	214.0	193.9	171.6	169.4
82.5°	211.8	220.7	229.6	225.1	209.5	187.2	167.2	142.7	120.4	104.8	104.8
85°	75.8	82.5	100.3	104.8	113.7	113.7	95.9	80.2	64.6	53.5	53.5
87.5°	22.3	22.3	24.5	24.5	22.3	24.5	20.1	22.3	24.5	15.6	15.6
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)