

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: P528662

Luminaire Tested: **GALN-SA3D-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528662  
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-SA3D-730-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1200mA 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: 18359 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

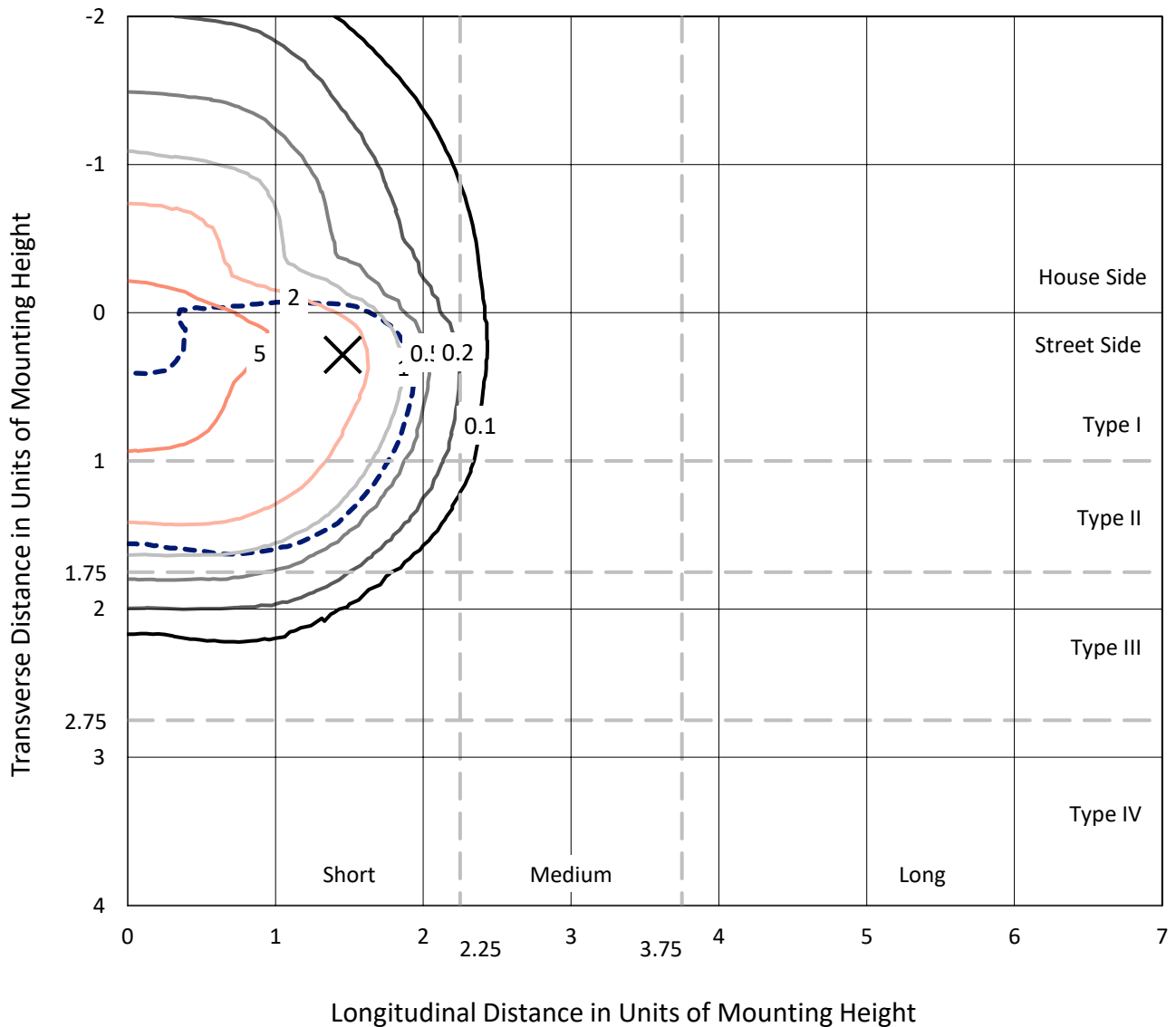
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

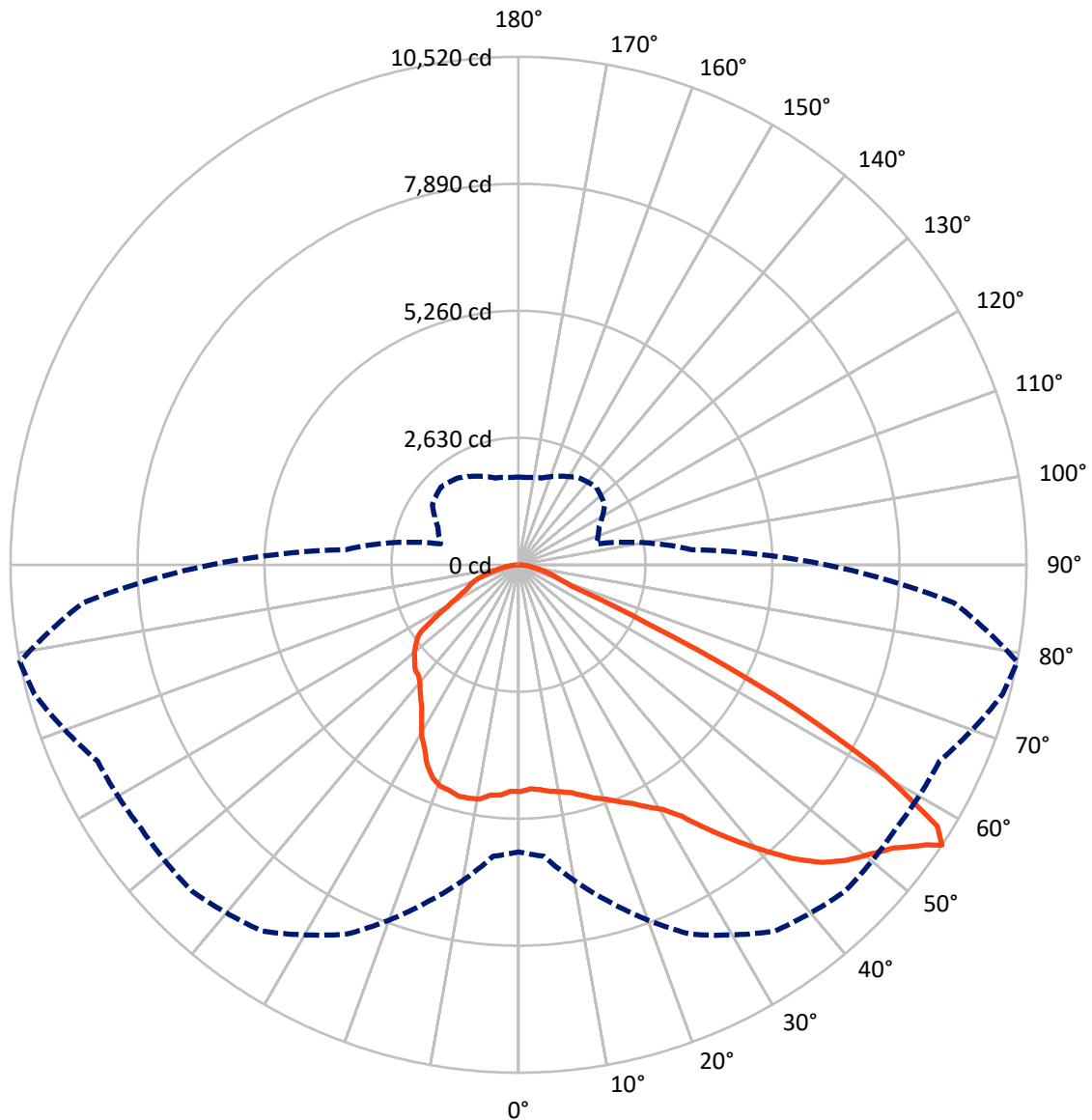
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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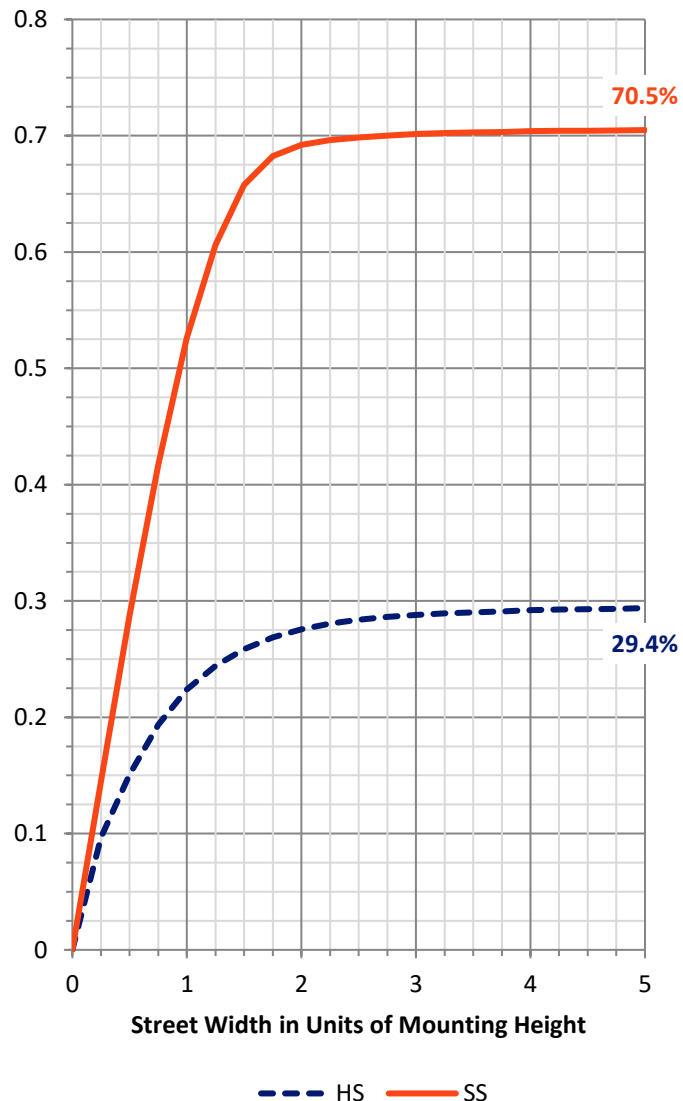
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5421.8	0.0	5421.8
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	12937.2	0.0	12937.2
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	18359.0	0.0	18359.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.1	2.3
10°-20°	1168.8	6.4
20°-30°	1999.6	10.9
30°-40°	3064.6	16.7
40°-50°	4141.8	22.6
50°-60°	4757.0	25.9
60°-70°	2168.4	11.8
70°-80°	534.6	2.9
80°-90°	97.2	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°	18359.0	100.0
0°-180°	18359.0	100.0

**Coefficient of Utilization**



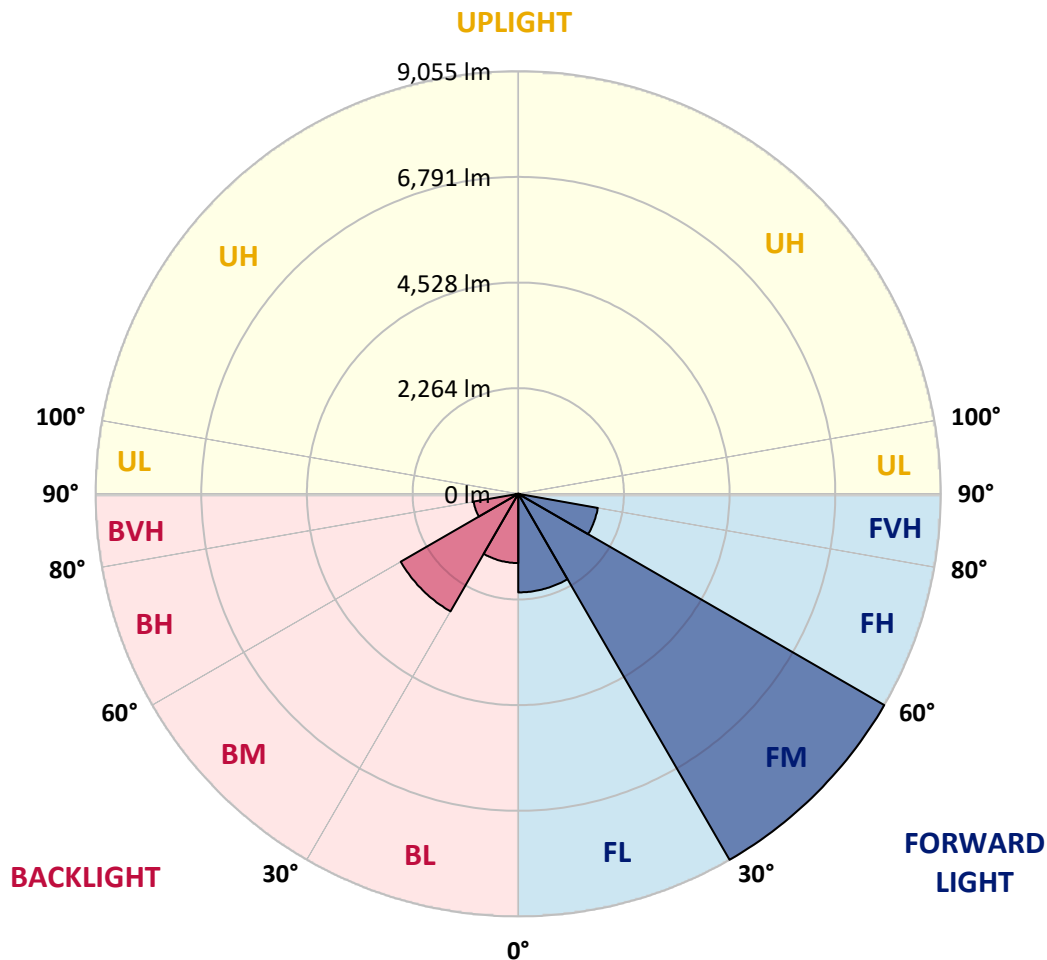
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2112.4	11.5			
FM (30°-60°)	9055.2	49.3			
FH (60°-80°)	1730.8	9.4			G1/1800
FVH (80°-90°)	38.8	0.2			G1/100
BL (0°-30°)	1483.1	8.1	B3/2500		
BM (30°-60°)	2908.2	15.8	B3/5000		
BH (60°-80°)	972.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	58.4	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°	79°	85°
0°	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3
2.5°	4468.6	4457.2	4484.7	4505.2	4530.4	4562.4	4578.4	4587.6	4667.6	4647.0	4708.8
5°	4372.6	4342.9	4363.5	4379.5	4422.9	4461.8	4505.2	4573.8	4647.0	4679.0	4754.5
7.5°	4288.0	4272.0	4267.4	4278.8	4338.3	4388.6	4464.1	4564.7	4683.6	4736.2	4779.7
10°	4148.5	4125.6	4159.9	4235.4	4251.4	4356.6	4443.5	4587.6	4690.5	4782.0	4910.0
12.5°	4086.7	4063.9	4070.7	4114.2	4226.2	4326.9	4429.8	4592.1	4809.4	4846.0	5017.5
15°	4185.1	4162.2	4169.1	4157.6	4265.1	4317.7	4480.1	4683.6	4891.7	4953.5	5136.4
17.5°	4409.2	4411.5	4381.7	4356.6	4331.4	4443.5	4555.6	4738.5	4923.7	5079.3	5216.5
20°	4836.8	4761.4	4701.9	4560.1	4521.2	4569.3	4711.1	4887.2	5054.1	5182.2	5337.7
22.5°	5166.2	5173.0	5088.4	4855.1	4770.5	4791.1	4912.3	5056.4	5239.3	5330.8	5509.2
25°	5644.1	5596.1	5504.6	5319.4	5129.6	5145.6	5234.8	5365.1	5415.4	5479.5	5673.9
27.5°	6080.9	6094.7	5914.0	5740.2	5504.6	5458.9	5619.0	5641.8	5557.2	5678.4	5744.8
30°	6524.6	6513.2	6394.2	6190.7	5959.7	5968.9	6039.8	5927.7	5811.1	5877.4	5923.1
32.5°	6984.3	6853.9	6849.3	6666.4	6490.3	6405.7	6318.8	6373.7	6193.0	6206.7	6163.3
35°	7352.5	7370.8	7265.6	7135.2	7048.3	6899.6	6661.8	6760.1	6725.8	6709.8	6522.3
37.5°	7620.0	7549.1	7601.7	7558.3	7476.0	7290.7	7043.7	7137.5	7153.5	7231.3	7014.0
40°	7839.6	7809.8	7949.3	7972.2	7915.0	7514.8	7071.2	7350.2	7590.3	7759.5	7501.1
42.5°	7944.8	8008.8	8155.2	8331.3	8203.2	7775.5	7213.0	7512.5	8047.7	8315.3	7963.1
45°	8086.6	8004.2	8221.5	8543.9	8546.2	7995.1	7350.2	7732.1	8404.4	8793.2	8278.7
47.5°	7942.5	7983.7	8207.8	8617.1	8722.3	8226.1	7720.7	8043.1	8797.8	9143.1	8571.4
50°	7620.0	7702.4	8111.7	8537.1	8855.0	8470.8	8146.0	8379.3	9161.4	9424.4	8619.4
52.5°	7283.9	7329.6	7969.9	8598.8	8914.4	8786.4	8715.5	8843.5	9605.1	9742.3	8678.9
55°	6369.1	6586.3	7501.1	8571.4	9204.9	9355.8	9300.9	9488.4	10108.2	10245.4	9003.6
56°	5946.0	6060.3	7219.8	8443.3	9262.0	9563.9	9536.5	9621.1	10375.8	10519.8	9053.9
57.5°	5163.9	5173.0	6156.4	7876.2	9047.1	9625.7	9598.2	9664.5	10323.2	10224.8	8612.6
60°	3231.4	3373.2	4189.6	6058.1	7693.2	8930.4	9085.9	8553.1	8704.0	8495.9	6700.7
62.5°	1674.0	1653.4	2195.4	3542.4	5106.7	6394.2	6538.3	6513.2	6279.9	5975.7	4377.2
65°	834.7	839.3	1148.0	1754.1	2616.2	3348.1	3750.6	3794.0	3174.2	2920.4	2076.5
67.5°	606.0	628.9	825.6	1072.6	1232.7	1379.0	1690.0	1658.0	1255.5	1193.8	1106.9
70°	471.1	491.7	670.1	818.7	743.3	743.3	809.6	837.0	894.2	919.3	949.1
72.5°	343.0	359.0	512.3	564.9	487.1	523.7	606.0	670.1	729.5	738.7	773.0
75°	235.6	249.3	336.2	311.0	292.7	361.3	443.7	503.1	546.6	569.4	590.0
77.5°	153.2	157.8	192.1	162.4	187.5	233.3	288.2	338.5	381.9	400.2	404.8
80°	68.6	75.5	82.3	102.9	130.4	166.9	205.8	247.0	274.4	281.3	295.0
82.5°	38.9	38.9	50.3	73.2	96.1	121.2	148.7	178.4	210.4	217.3	215.0
85°	20.6	20.6	29.7	43.5	59.5	70.9	68.6	70.9	75.5	86.9	84.6
87.5°	6.9	6.9	9.1	9.1	11.4	13.7	11.4	16.0	20.6	20.6	20.6
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°	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3	4697.3
2.5°	4690.5	4711.1	4683.6	4743.1	4743.1	4731.6	4674.5	4692.8	4706.5	4706.5	4717.9
5°	4779.7	4772.8	4791.1	4720.2	4676.8	4660.8	4567.0	4521.2	4482.4	4480.1	4445.8
7.5°	4830.0	4811.7	4804.8	4752.2	4560.1	4443.5	4242.2	4125.6	4100.5	4011.3	4045.6
10°	4910.0	4944.3	4910.0	4624.2	4356.6	4089.0	3892.3	3711.7	3640.8	3583.6	3549.3
12.5°	5074.7	5058.7	4859.7	4473.2	4098.2	3780.3	3487.6	3297.7	3226.8	3176.5	3172.0
15°	5214.2	5134.1	4830.0	4235.4	3695.7	3357.2	3117.1	2982.1	2950.1	2954.7	2975.3
17.5°	5262.2	5207.3	4674.5	3988.4	3396.1	2998.2	2886.1	2865.5	2895.2	2929.5	2938.7
20°	5337.7	5250.8	4610.4	3652.2	3025.6	2774.0	2767.2	2840.4	2895.2	2945.6	2952.4
22.5°	5495.5	5275.9	4402.3	3334.3	2771.8	2707.7	2774.0	2835.8	2920.4	2961.6	2925.0
25°	5541.2	5221.0	4109.6	2952.4	2611.7	2666.6	2737.4	2822.1	2881.5	2904.4	2920.4
27.5°	5580.1	5136.4	3714.0	2698.6	2561.4	2664.3	2737.4	2808.3	2840.4	2860.9	2879.2
30°	5689.9	5111.3	3370.9	2529.3	2529.3	2618.5	2712.3	2730.6	2774.0	2799.2	2831.2
32.5°	5744.8	4937.5	3018.7	2421.9	2497.3	2641.4	2648.3	2682.6	2684.8	2705.4	2671.1
35°	5888.8	4814.0	2691.7	2344.1	2511.0	2618.5	2652.8	2632.2	2520.2	2465.3	2476.7
37.5°	5994.0	4752.2	2456.2	2334.9	2513.3	2643.7	2662.0	2506.5	2389.8	2298.4	2321.2
40°	6277.6	4599.0	2277.8	2318.9	2533.9	2671.1	2620.8	2451.6	2241.2	2147.4	2131.4
42.5°	6494.9	4489.2	2165.7	2300.6	2549.9	2710.0	2600.2	2341.8	2126.8	2039.9	2062.8
45°	6746.4	4464.1	2106.3	2305.2	2577.4	2730.6	2575.1	2257.2	2028.5	1994.2	1987.3
47.5°	6835.6	4283.4	2042.2	2266.3	2570.5	2723.7	2490.5	2193.2	1991.9	1996.5	2014.8
50°	6687.0	4098.2	1994.2	2186.3	2524.8	2662.0	2357.8	2108.5	1971.3	2028.5	2060.5
52.5°	6497.1	3908.4	1895.9	2078.8	2431.0	2565.9	2296.1	2104.0	1950.7	1932.5	1939.3
55°	6554.3	3752.8	1758.6	1932.5	2280.1	2387.5	2227.5	2060.5	1900.4	1831.8	1854.7
56°	6369.1	3592.8	1669.5	1841.0	2177.2	2273.2	2193.2	2021.6	1859.3	1813.5	1813.5
57.5°	5845.4	3055.3	1552.8	1694.6	1959.9	2074.2	2126.8	1998.8	1813.5	1733.5	1735.8
60°	4310.9	2172.6	1392.7	1493.4	1623.7	1715.2	1959.9	1934.7	1699.2	1644.3	1623.7
62.5°	2657.4	1587.1	1278.4	1317.3	1383.6	1459.1	1710.6	1751.8	1578.0	1518.5	1504.8
65°	1488.8	1214.4	1191.5	1207.5	1239.5	1278.4	1420.2	1511.7	1392.7	1301.3	1296.7
67.5°	1088.6	1086.3	1104.6	1118.3	1132.0	1132.0	1166.3	1202.9	1186.9	1113.7	1106.9
70°	967.4	974.2	988.0	990.2	994.8	978.8	951.4	939.9	958.2	912.5	903.3
72.5°	798.1	821.0	837.0	839.3	814.1	793.6	757.0	718.1	704.4	695.2	692.9
75°	612.9	628.9	635.8	633.5	624.3	594.6	551.1	512.3	487.1	459.7	473.4
77.5°	413.9	436.8	448.2	448.2	434.5	388.8	368.2	338.5	313.3	283.6	288.2
80°	290.4	306.4	324.7	322.5	299.6	276.7	247.0	219.5	199.0	176.1	173.8
82.5°	217.3	226.4	235.6	231.0	215.0	192.1	171.5	146.4	123.5	107.5	107.5
85°	77.8	84.6	102.9	107.5	116.6	116.6	98.3	82.3	66.3	54.9	54.9
87.5°	22.9	22.9	25.2	25.2	22.9	25.2	20.6	22.9	25.2	16.0	16.0
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)