

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: P529592

Luminaire Tested: **GALN-SA4D-730-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529592
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-SA4D-730-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA 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: 23377 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

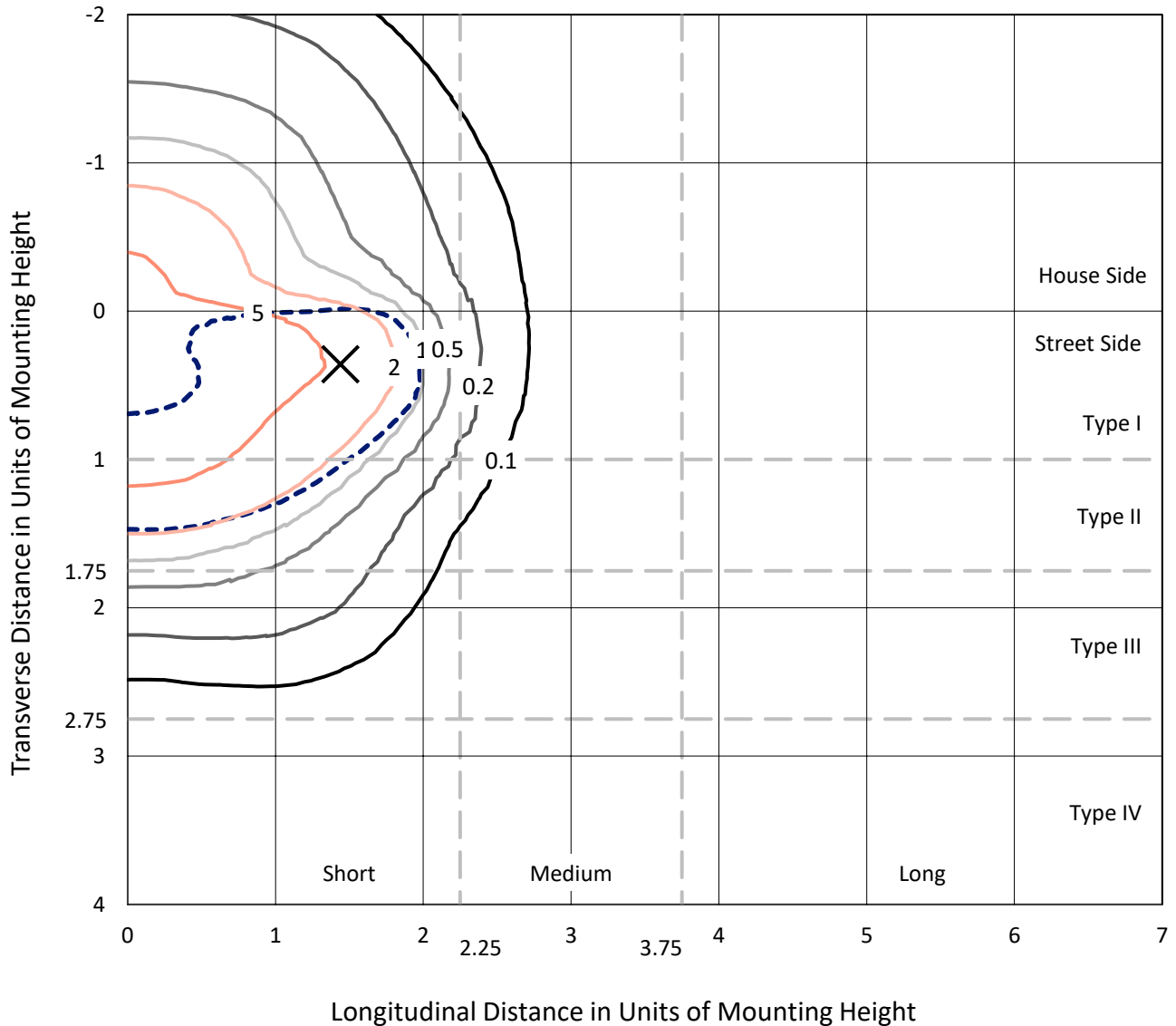
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529592
 CATALOG NUMBER: GALN-SA4D-730-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

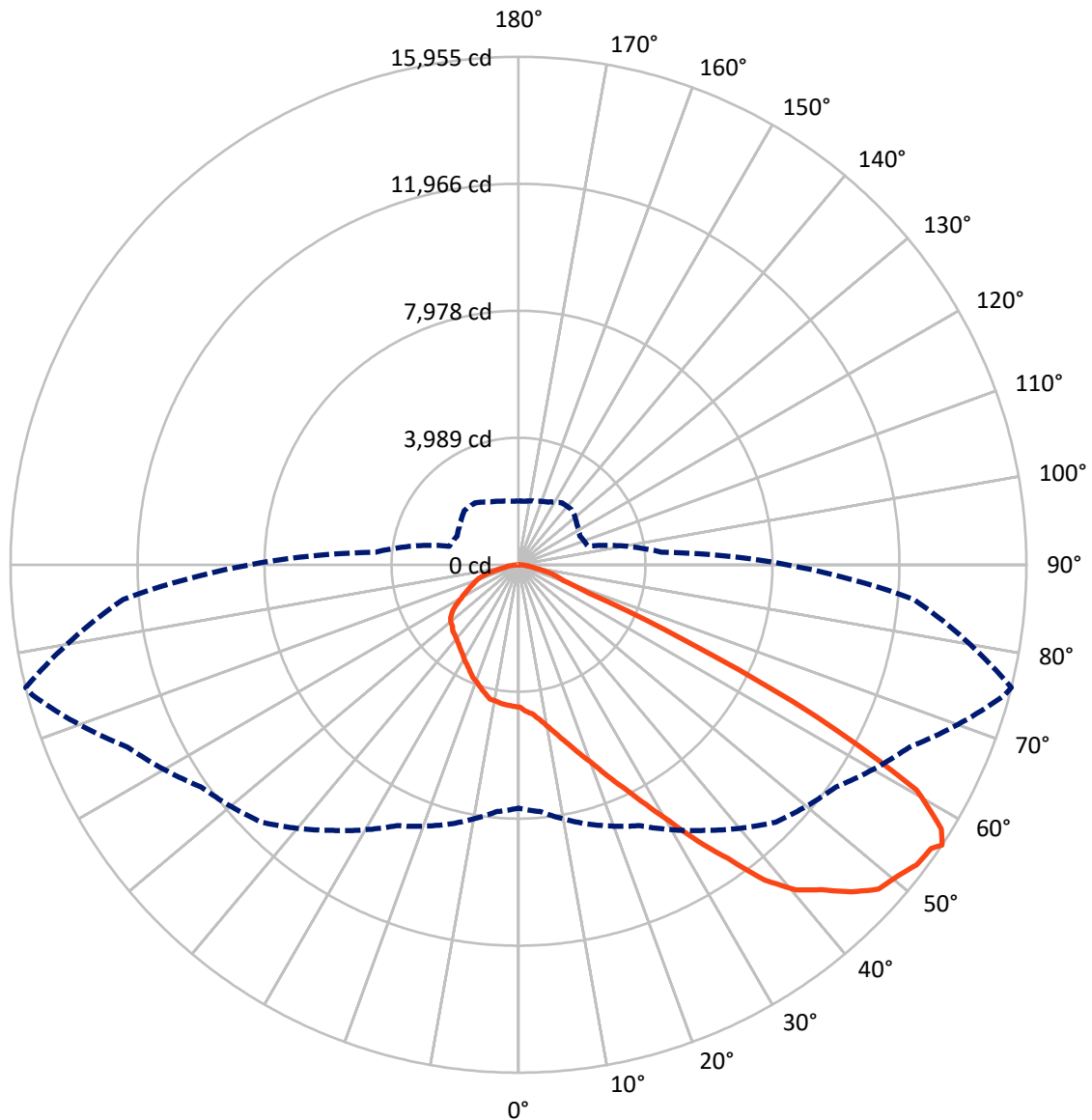
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

REPORT NUMBER: P529592
CATALOG NUMBER: GALN-SA4D-730-U-T2-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P529592
 CATALOG NUMBER: GALN-SA4D-730-U-T2-GRSWH

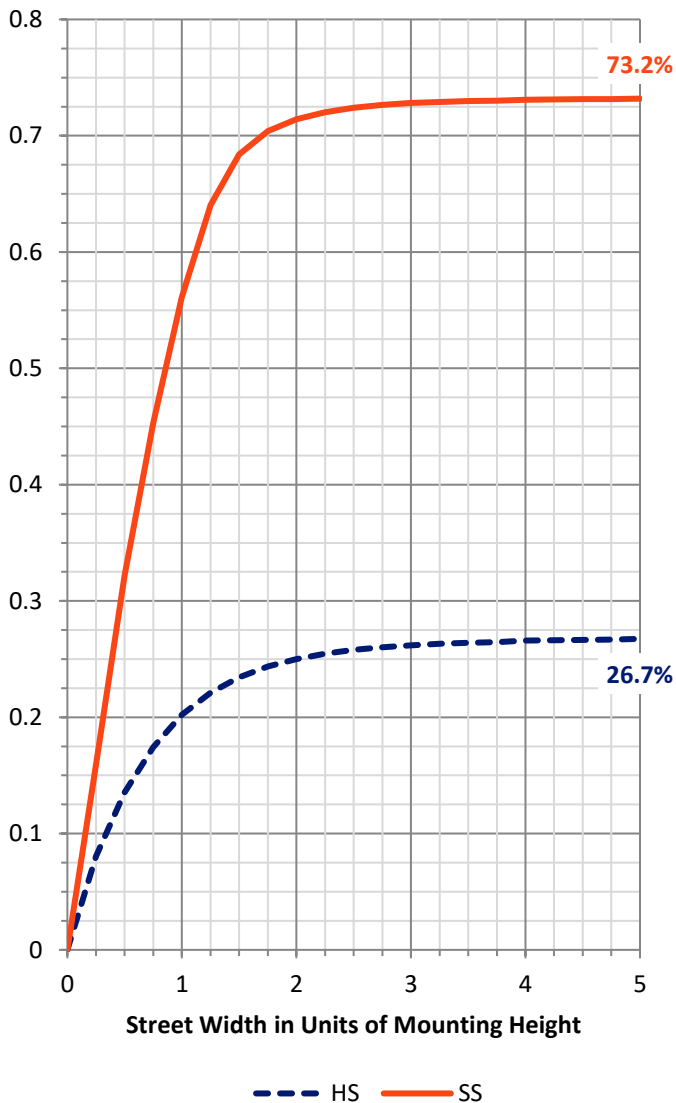
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6285.4	0.0	6285.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	17091.6	0.0	17091.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	23377.0	0.0	23377.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.6	1.9
10°-20°	1393.4	6.0
20°-30°	2436.9	10.4
30°-40°	3815.5	16.3
40°-50°	5550.4	23.7
50°-60°	6100.3	26.1
60°-70°	2722.9	11.6
70°-80°	786.5	3.4
80°-90°	127.6	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°	23377.0	100.0
0°-180°	23377.0	100.0

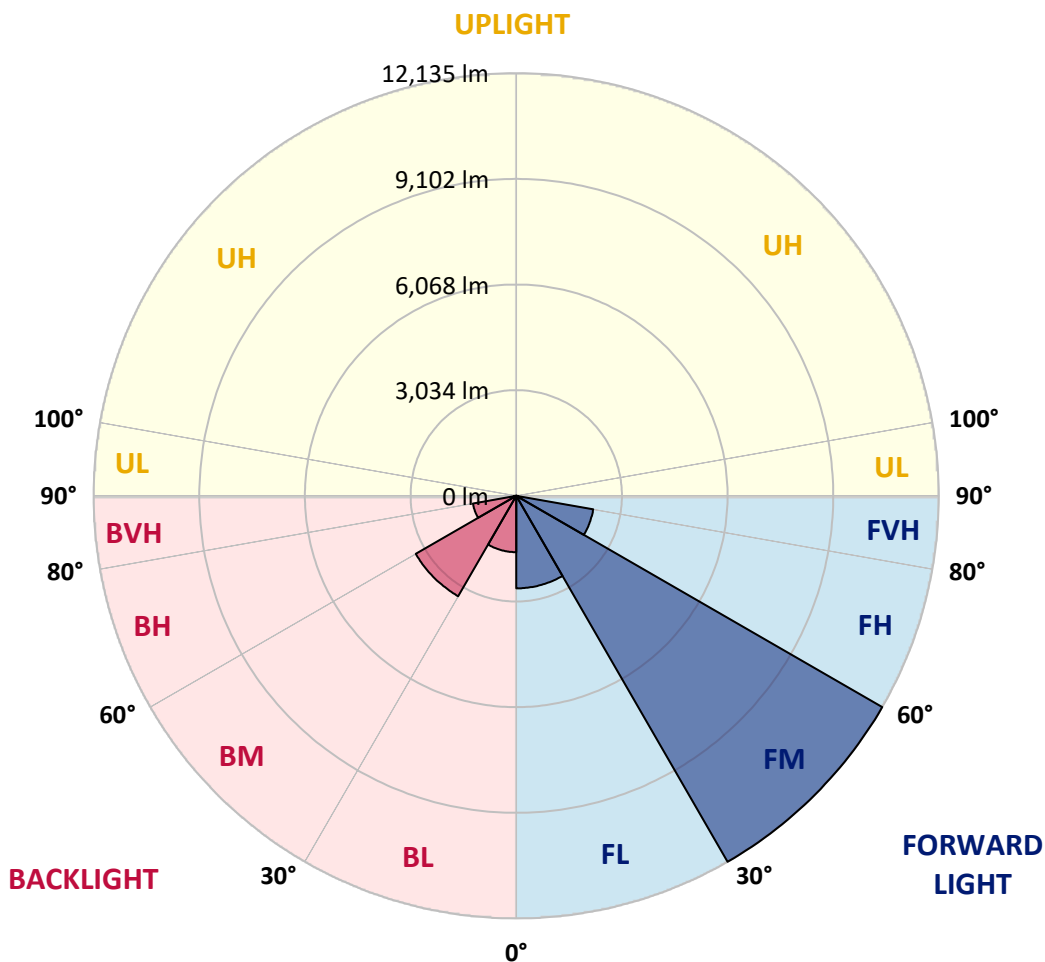


REPORT NUMBER: P529592
 CATALOG NUMBER: GALN-SA4D-730-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2656.5	11.4			
FM (30°-60°)	12135.4	51.9			
FH (60°-80°)	2244.7	9.6			G2/5000
FVH (80°-90°)	54.9	0.2			G1/100
BL (0°-30°)	1617.3	6.9	B3/2500		
BM (30°-60°)	3330.7	14.2	B3/5000		
BH (60°-80°)	1264.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	72.7	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-G3
 Type II Short





REPORT NUMBER: P529592

CATALOG NUMBER: GALN-SA4D-730-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4472.9	4472.9	4472.9	4472.9	4472.9	4472.9	4472.9	4472.9	4472.9	4472.9	4472.9
2.5°	4927.5	4848.7	4842.6	4821.4	4833.5	4779.0	4721.4	4645.6	4566.8	4615.3	4500.2
5°	5272.9	5166.9	5209.3	5136.5	5145.6	5072.9	4954.7	4866.8	4769.9	4712.3	4630.5
7.5°	5394.1	5403.2	5433.5	5421.4	5360.8	5360.8	5282.0	5127.5	4957.8	4924.4	4788.1
10°	5557.8	5560.8	5527.5	5536.6	5621.4	5582.0	5512.3	5445.7	5227.5	5188.1	4945.6
12.5°	5615.4	5560.8	5615.4	5663.8	5763.8	5818.4	5803.2	5754.8	5521.4	5494.1	5139.6
15°	5624.4	5591.1	5636.6	5745.7	5833.5	6063.9	6179.0	6145.7	5836.6	5839.6	5357.8
17.5°	5582.0	5627.5	5645.7	5739.6	5942.6	6157.8	6491.1	6536.6	6282.0	6242.6	5633.5
20°	5639.6	5606.3	5630.5	5715.4	5985.1	6321.4	6757.8	7057.8	6700.2	6673.0	5918.4
22.5°	5860.8	5815.4	5809.3	5863.8	6057.8	6406.3	7039.6	7579.1	7209.4	7224.5	6273.0
25°	6033.6	6057.8	6036.6	6033.6	6154.8	6533.6	7412.4	8200.3	7900.3	7812.4	6691.2
27.5°	6330.5	6388.1	6345.7	6403.3	6376.0	6724.5	7679.1	8888.2	8645.8	8527.6	7070.0
30°	6742.7	6773.0	6733.6	6733.6	6651.8	6991.2	7921.5	9606.4	9506.4	9345.8	7515.4
32.5°	7285.1	7330.6	7251.8	7206.3	7194.2	7388.1	8357.9	10315.5	10485.2	10348.9	8106.4
35°	8003.3	7976.0	7882.1	7839.7	7676.0	7997.3	9006.4	11130.7	11576.2	11333.7	8821.5
37.5°	8636.7	8594.2	8588.2	8351.8	8391.2	8654.9	9557.9	11748.9	12633.8	12564.1	9576.1
40°	9227.6	9267.0	9330.6	9197.3	9136.7	9427.6	10200.4	12221.7	13455.0	13427.8	10157.9
42.5°	9861.0	9824.6	9936.7	9824.6	9733.7	10145.8	10897.4	12548.9	14176.3	13952.0	10767.1
45°	10779.2	10664.0	10703.4	10712.5	10645.8	10797.4	11185.3	12785.3	14682.3	14658.1	11212.5
47.5°	11545.9	11548.9	11482.2	11430.7	11227.7	11379.2	11506.5	12933.8	15264.2	15224.8	11385.3
50°	11830.7	11791.3	11985.3	12097.4	12109.5	11800.4	11758.0	13015.6	15570.3	15397.5	11558.0
52.5°	10806.5	10842.8	11148.9	11815.6	12200.4	12233.8	12052.0	13185.3	15694.5	15658.1	11697.4
55°	8697.3	8873.0	9376.1	10145.8	11058.0	12061.0	12370.1	13361.1	15761.2	15730.9	12315.6
56°	7645.7	7782.1	8436.7	9039.7	10185.2	11433.7	12170.1	13549.0	15812.7	15955.1	12461.1
57.5°	6154.8	6312.3	6782.1	7466.9	8818.5	10239.8	11618.6	13318.7	15612.7	15667.2	12567.1
60°	3848.6	3863.8	4427.4	4879.0	5830.5	7218.4	8867.0	11588.3	14449.0	14370.2	11288.3
62.5°	2524.3	2527.4	3039.5	3409.2	3842.6	4160.8	5218.4	7685.1	10661.0	10521.6	8036.7
65°	1772.8	1812.2	2209.2	2703.1	2878.9	2712.2	2678.9	4051.7	5954.8	5754.8	4318.3
67.5°	1297.0	1300.0	1651.6	2181.9	2436.5	2063.7	1675.8	1978.9	2357.7	2351.6	2000.1
70°	857.6	894.0	1163.7	1630.4	1921.3	1657.6	1369.7	1415.2	1500.1	1500.1	1487.9
72.5°	500.0	533.4	712.1	1033.4	1078.8	1036.4	1084.9	1212.2	1266.7	1263.7	1248.5
75°	284.9	300.0	339.4	430.3	536.4	633.4	797.0	918.2	972.8	1006.1	966.7
77.5°	166.7	175.8	200.0	245.5	278.8	342.4	433.3	518.2	590.9	581.8	587.9
80°	87.9	87.9	112.1	145.5	193.9	242.4	287.9	336.4	375.8	384.9	394.0
82.5°	51.5	54.5	72.7	106.1	139.4	172.7	221.2	254.6	290.9	294.0	300.0
85°	27.3	30.3	45.5	69.7	93.9	106.1	109.1	103.0	112.1	106.1	121.2
87.5°	9.1	9.1	15.2	12.1	12.1	15.2	18.2	18.2	24.2	24.2	24.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P529592

CATALOG NUMBER: GALN-SA4D-730-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4472.9	4472.9	4472.9	4472.9	4472.9	4472.9	4472.9	4472.9	4472.9	4472.9	4472.9
2.5°	4497.1	4497.1	4445.6	4348.6	4333.5	4294.1	4257.7	4254.7	4227.4	4203.2	4191.1
5°	4582.0	4488.0	4412.3	4324.4	4221.4	4172.9	4118.3	4057.7	4033.5	4057.7	4054.7
7.5°	4679.0	4600.2	4372.9	4209.2	4091.1	4042.6	3982.0	3918.3	3924.4	3924.4	3882.0
10°	4772.9	4666.8	4303.2	4094.1	3921.4	3885.0	3851.7	3875.9	3906.2	3912.3	3885.0
12.5°	4930.5	4691.1	4269.9	3978.9	3869.8	3791.0	3812.3	3878.9	3942.6	3924.4	3945.6
15°	5048.7	4712.3	4118.3	3860.7	3724.4	3760.7	3836.5	3882.0	3988.0	3975.9	3997.1
17.5°	5163.8	4724.4	3969.8	3703.2	3645.6	3745.6	3803.2	3933.5	3966.8	4039.5	4066.8
20°	5400.2	4748.7	3818.3	3606.2	3588.0	3703.2	3803.2	3863.8	3936.5	4000.1	4000.1
22.5°	5521.4	4736.5	3718.3	3478.9	3536.5	3609.2	3700.1	3803.2	3803.2	3863.8	3866.8
25°	5672.9	4688.0	3560.7	3418.3	3460.7	3530.4	3633.5	3597.1	3636.5	3636.5	3685.0
27.5°	5845.7	4585.0	3424.4	3309.2	3394.1	3469.8	3485.0	3460.7	3415.3	3409.2	3391.0
30°	5985.1	4457.7	3324.4	3272.8	3342.5	3385.0	3336.5	3285.0	3206.2	3200.1	3157.7
32.5°	6176.0	4300.2	3200.1	3181.9	3260.7	3263.8	3248.6	3169.8	3054.7	3006.2	2957.7
35°	6497.2	4209.2	3106.2	3133.4	3157.7	3148.6	3121.3	3036.5	2921.3	2900.1	2881.9
37.5°	6733.6	4142.6	3009.2	3042.5	3063.7	3075.9	2994.0	2900.1	2903.1	2860.7	2848.6
40°	7000.3	4100.1	2930.4	2945.6	2948.6	2988.0	2888.0	2842.5	2863.7	2836.5	2854.6
42.5°	7342.7	4112.3	2848.6	2836.5	2894.0	2878.9	2830.4	2769.8	2781.9	2700.1	2712.2
45°	7524.5	4194.1	2800.1	2745.6	2809.2	2806.2	2742.5	2684.9	2612.2	2454.6	2460.7
47.5°	7645.7	4215.3	2684.9	2648.6	2715.2	2754.6	2681.9	2548.6	2445.5	2333.4	2306.1
50°	7770.0	4254.7	2630.4	2554.6	2581.9	2675.9	2584.9	2457.7	2357.7	2257.7	2272.8
52.5°	7879.1	4330.5	2524.3	2412.2	2460.7	2563.7	2515.2	2360.7	2251.6	2169.8	2145.5
55°	8363.9	4500.2	2345.5	2200.1	2315.2	2445.5	2418.3	2230.4	2112.2	2069.8	2063.7
56°	8439.7	4506.2	2251.6	2127.3	2233.4	2406.1	2372.8	2172.8	2066.7	2000.1	2003.1
57.5°	8451.8	4433.5	2118.3	2060.7	2151.6	2348.6	2306.1	2127.3	1981.9	1921.3	1903.1
60°	7436.6	3460.7	1951.6	1915.2	2021.3	2172.8	2157.7	2003.1	1839.5	1769.8	1803.1
62.5°	5069.9	2536.5	1821.3	1815.2	1869.8	2018.3	1978.9	1839.5	1703.1	1657.6	1636.4
65°	2951.6	1924.3	1694.0	1669.8	1715.2	1794.0	1821.3	1675.8	1533.4	1503.1	1494.0
67.5°	1742.5	1591.0	1530.4	1491.0	1475.8	1524.3	1545.5	1460.7	1318.2	1275.8	1312.2
70°	1457.6	1415.2	1418.2	1351.6	1315.2	1281.9	1263.7	1187.9	1069.7	1015.2	1000.0
72.5°	1257.6	1239.4	1227.3	1166.7	1133.4	1057.6	978.8	903.1	815.2	769.7	772.8
75°	960.6	954.6	960.6	930.3	872.8	812.2	739.4	642.4	575.8	518.2	530.3
77.5°	572.7	590.9	600.0	587.9	563.7	509.1	463.7	400.0	336.4	290.9	284.9
80°	394.0	409.1	424.3	409.1	384.9	345.5	297.0	248.5	203.0	178.8	172.7
82.5°	300.0	315.2	324.3	309.1	278.8	236.4	203.0	169.7	133.3	109.1	103.0
85°	109.1	124.2	121.2	145.5	157.6	151.5	130.3	100.0	75.8	54.5	51.5
87.5°	30.3	27.3	30.3	30.3	30.3	27.3	24.2	24.2	24.2	15.2	12.1
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)