

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: P530066

Luminaire Tested: **GALN-SA5B-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530066
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-SA5B-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 22654 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

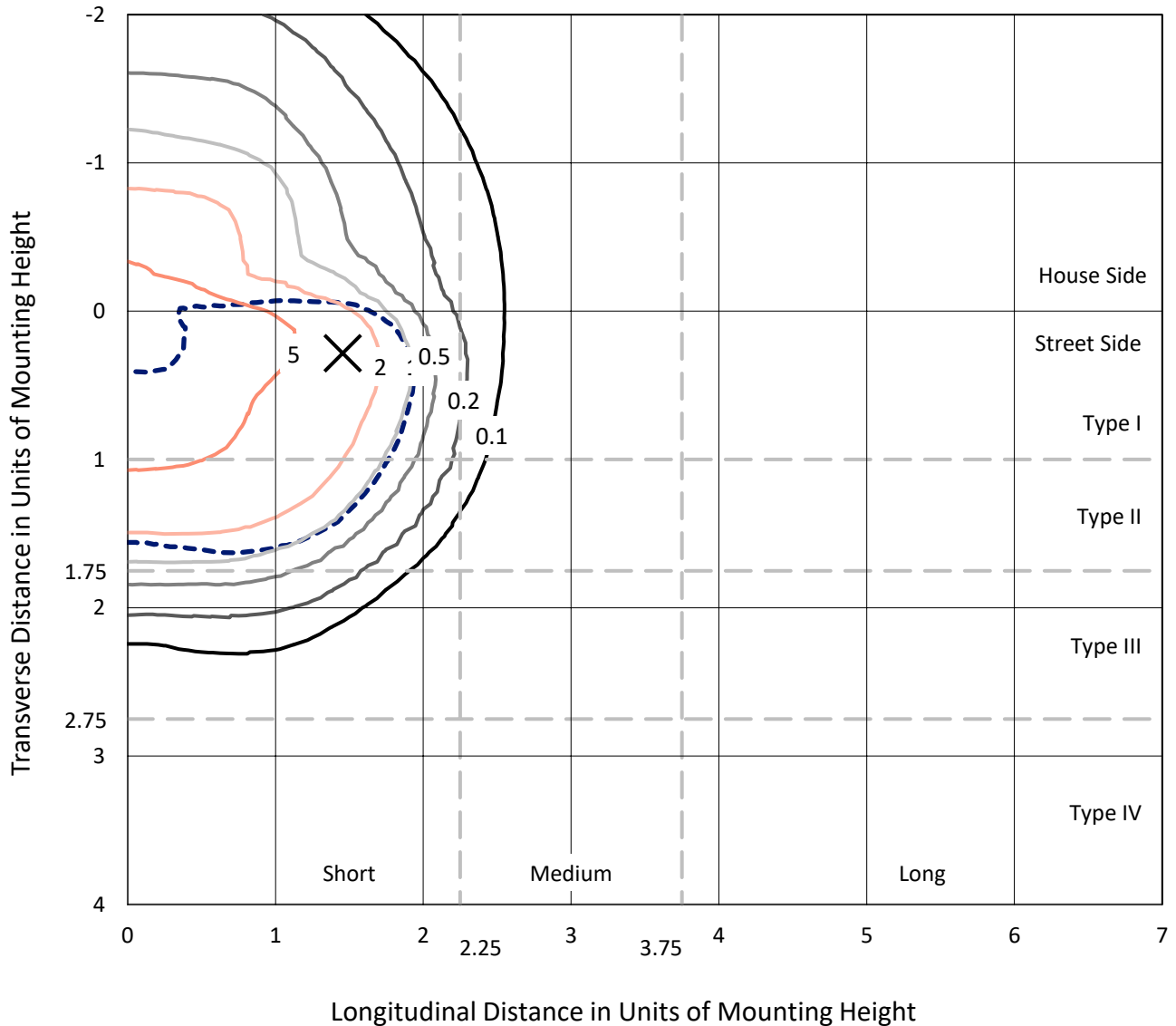
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530066
 CATALOG NUMBER: GALN-SA5B-730-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

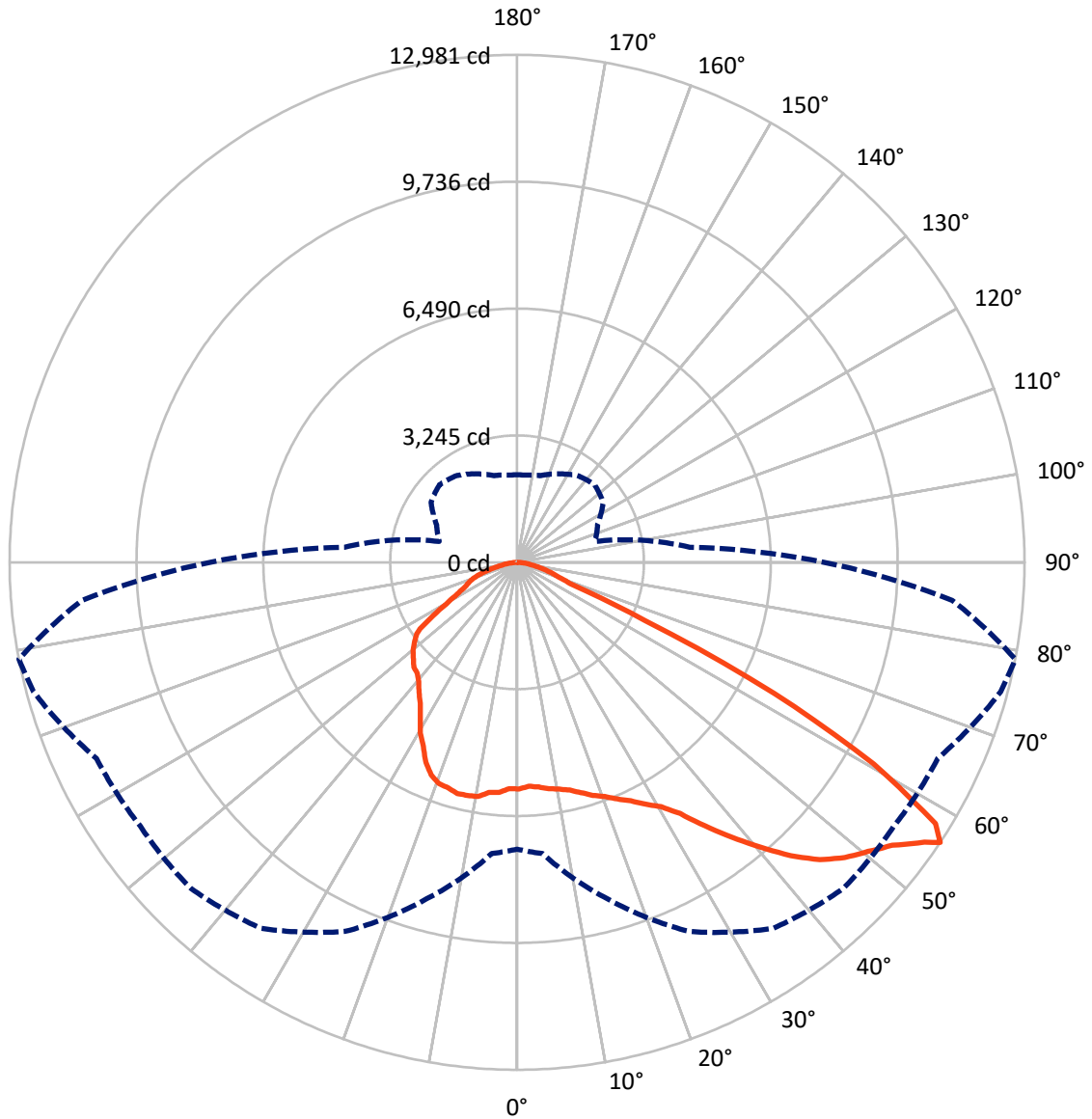
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

REPORT NUMBER: P530066
CATALOG NUMBER: GALN-SA5B-730-U-T3R-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P530066
 CATALOG NUMBER: GALN-SA5B-730-U-T3R-GRSWH

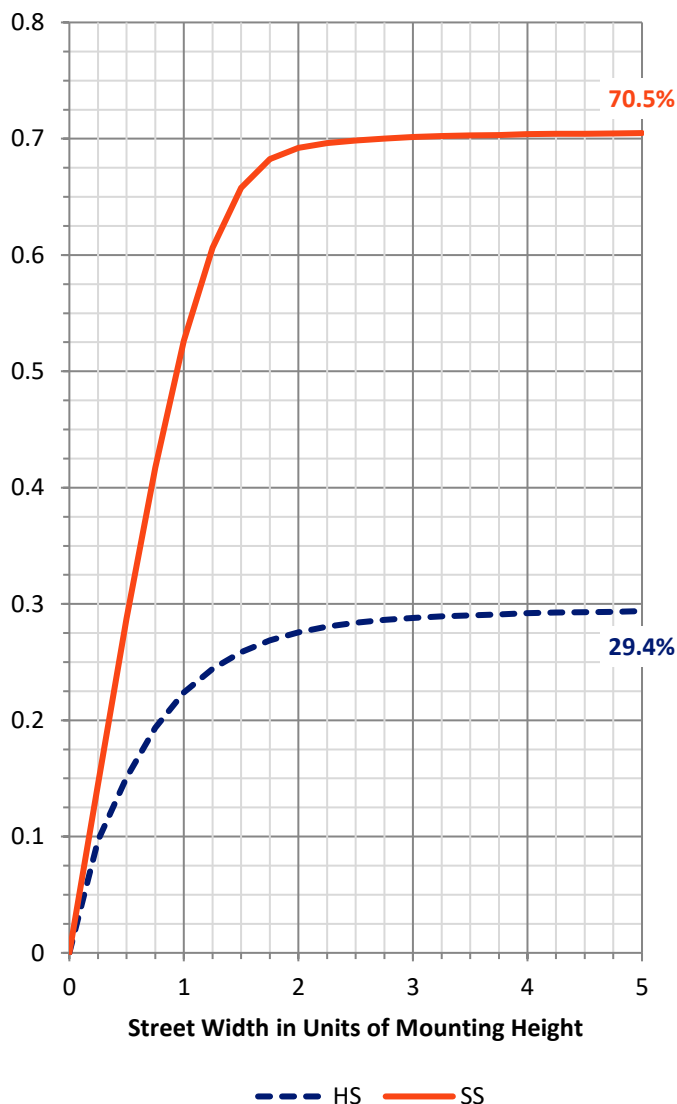
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6690.2	0.0	6690.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	15963.8	0.0	15963.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	22654.0	0.0	22654.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.0	2.3
10°-20°	1442.2	6.4
20°-30°	2467.4	10.9
30°-40°	3781.6	16.7
40°-50°	5110.7	22.6
50°-60°	5869.9	25.9
60°-70°	2675.7	11.8
70°-80°	659.7	2.9
80°-90°	119.9	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°	22654.0	100.0
0°-180°	22654.0	100.0

Coefficient of Utilization



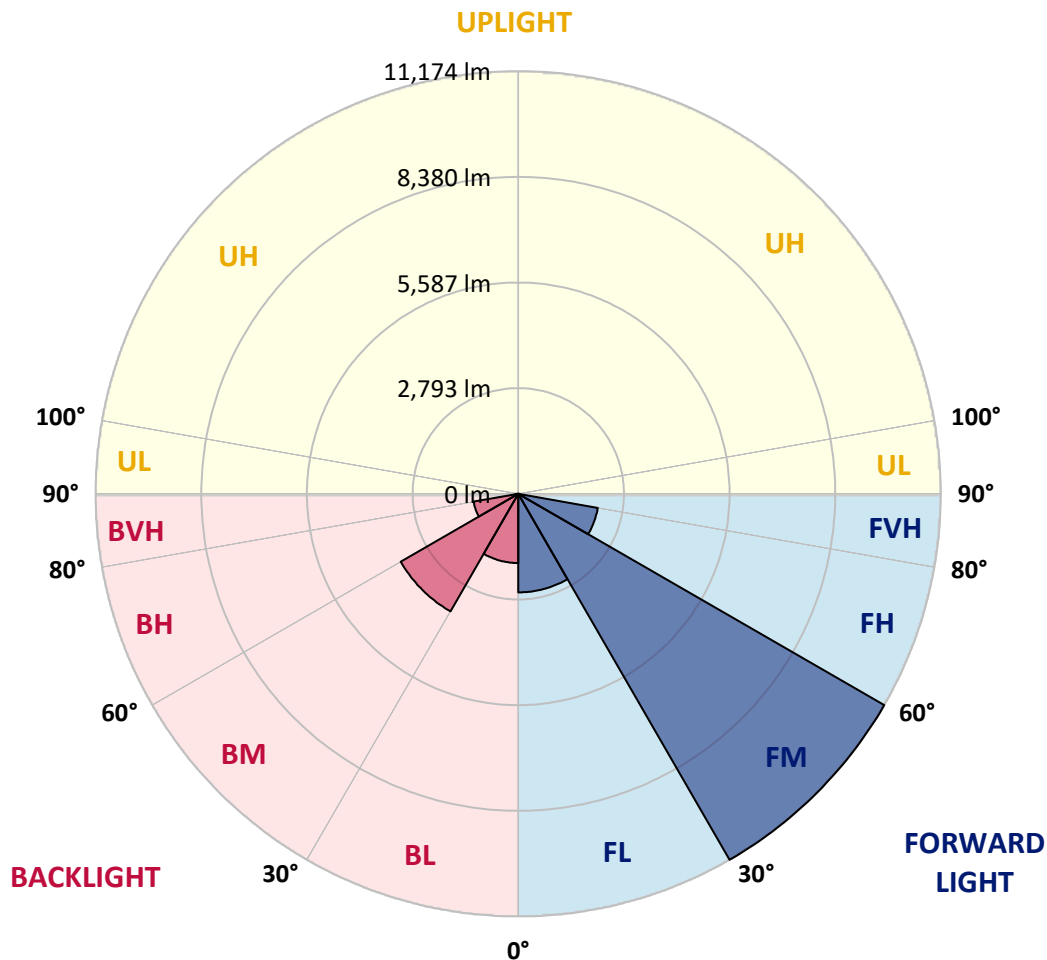
REPORT NUMBER: P530066
 CATALOG NUMBER: GALN-SA5B-730-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2606.5	11.5			
FM (30°-60°)	11173.6	49.3			
FH (60°-80°)	2135.8	9.4			G2/5000
FVH (80°-90°)	47.9	0.2			G1/100
BL (0°-30°)	1830.1	8.1	B3/2500		
BM (30°-60°)	3588.5	15.8	B3/5000		
BH (60°-80°)	1199.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	72.0	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: P530066

CATALOG NUMBER: GALN-SA5B-730-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5796.3	5796.3	5796.3	5796.3	5796.3	5796.3	5796.3	5796.3	5796.3	5796.3	5796.3
2.5°	5514.1	5500.0	5533.8	5559.2	5590.3	5629.8	5649.5	5660.8	5759.6	5734.2	5810.4
5°	5395.5	5358.9	5384.3	5404.0	5457.6	5505.6	5559.2	5643.9	5734.2	5773.7	5866.8
7.5°	5291.1	5271.4	5265.7	5279.8	5353.2	5415.3	5508.4	5632.6	5779.3	5844.2	5897.9
10°	5119.0	5090.8	5133.1	5226.2	5246.0	5375.8	5483.0	5660.8	5787.8	5900.7	6058.7
12.5°	5042.8	5014.6	5023.1	5076.7	5214.9	5339.1	5466.1	5666.5	5934.5	5979.7	6191.3
15°	5164.1	5135.9	5144.4	5130.3	5262.9	5327.8	5528.2	5779.3	6036.1	6112.3	6338.1
17.5°	5440.7	5443.5	5406.8	5375.8	5344.8	5483.0	5621.3	5847.1	6075.6	6267.5	6436.8
20°	5968.4	5875.3	5801.9	5626.9	5579.0	5638.2	5813.2	6030.5	6236.5	6394.5	6586.4
22.5°	6374.8	6383.2	6278.8	5991.0	5886.6	5912.0	6061.5	6239.3	6465.1	6577.9	6798.0
25°	6964.5	6905.3	6792.4	6563.8	6329.6	6349.4	6459.4	6620.3	6682.4	6761.4	7001.2
27.5°	7503.5	7520.5	7297.5	7083.1	6792.4	6736.0	6933.5	6961.7	6857.3	7006.9	7088.7
30°	8051.0	8036.9	7890.1	7639.0	7354.0	7365.3	7452.7	7314.5	7170.5	7252.4	7308.8
32.5°	8618.2	8457.3	8451.7	8226.0	8008.7	7904.2	7797.0	7864.7	7641.8	7658.7	7605.1
35°	9072.5	9095.1	8965.3	8804.4	8697.2	8513.8	8220.3	8341.6	8299.3	8279.6	8048.2
37.5°	9402.7	9315.2	9380.1	9326.5	9224.9	8996.3	8691.6	8807.3	8827.0	8923.0	8654.9
40°	9673.6	9636.9	9809.1	9837.3	9766.7	9272.9	8725.4	9069.7	9366.0	9574.8	9256.0
42.5°	9803.4	9882.4	10063.0	10280.3	10122.3	9594.6	8900.4	9270.1	9930.4	10260.6	9826.0
45°	9978.4	9876.8	10144.9	10542.8	10545.6	9865.5	9069.7	9541.0	10370.6	10850.4	10215.4
47.5°	9800.6	9851.4	10127.9	10633.1	10762.9	10150.5	9526.9	9924.8	10856.0	11282.1	10576.6
50°	9402.7	9504.3	10009.4	10534.3	10926.5	10452.5	10051.7	10339.6	11304.7	11629.2	10635.9
52.5°	8987.9	9044.3	9834.5	10610.5	10999.9	10841.9	10754.4	10912.4	11852.1	12021.5	10709.3
55°	7859.1	8127.2	9256.0	10576.6	11358.3	11544.6	11476.8	11708.2	12473.0	12642.3	11110.0
56°	7337.0	7478.1	8908.9	10418.6	11428.9	11801.3	11767.5	11871.9	12803.1	12980.9	11172.1
57.5°	6371.9	6383.2	7596.7	9718.8	11163.6	11877.5	11843.7	11925.5	12738.2	12616.9	10627.4
60°	3987.4	4162.4	5169.8	7475.3	9493.0	11019.7	11211.6	10554.0	10740.3	10483.5	8268.3
62.5°	2065.7	2040.3	2709.1	4371.2	6301.4	7890.1	8067.9	8036.9	7749.0	7373.7	5401.2
65°	1030.0	1035.7	1416.6	2164.4	3228.3	4131.3	4628.0	4681.6	3916.9	3603.6	2562.3
67.5°	747.8	776.0	1018.7	1323.5	1521.0	1701.6	2085.4	2045.9	1549.2	1473.1	1365.8
70°	581.3	606.7	826.8	1010.3	917.1	917.1	999.0	1032.8	1103.4	1134.4	1171.1
72.5°	423.3	443.0	632.1	697.0	601.1	646.2	747.8	826.8	900.2	911.5	953.8
75°	290.7	307.6	414.8	383.8	361.2	445.9	547.5	620.8	674.4	702.7	728.1
77.5°	189.1	194.7	237.0	200.4	231.4	287.8	355.6	417.6	471.3	493.8	499.5
80°	84.7	93.1	101.6	127.0	160.9	206.0	254.0	304.8	338.6	347.1	364.0
82.5°	48.0	48.0	62.1	90.3	118.5	149.6	183.4	220.1	259.6	268.1	265.3
85°	25.4	25.4	36.7	53.6	73.4	87.5	84.7	87.5	93.1	107.2	104.4
87.5°	8.5	8.5	11.3	11.3	14.1	16.9	14.1	19.8	25.4	25.4	25.4
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: P530066

CATALOG NUMBER: GALN-SA5B-730-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5796.3	5796.3	5796.3	5796.3	5796.3	5796.3	5796.3	5796.3	5796.3	5796.3	5796.3
2.5°	5787.8	5813.2	5779.3	5852.7	5852.7	5838.6	5768.0	5790.6	5807.5	5807.5	5821.7
5°	5897.9	5889.4	5912.0	5824.5	5770.9	5751.1	5635.4	5579.0	5531.0	5528.2	5485.8
7.5°	5959.9	5937.4	5928.9	5864.0	5626.9	5483.0	5234.7	5090.8	5059.7	4949.7	4992.0
10°	6058.7	6101.0	6058.7	5706.0	5375.8	5045.6	4802.9	4580.0	4492.5	4422.0	4379.6
12.5°	6261.9	6242.1	5996.6	5519.7	5056.9	4664.7	4303.5	4069.2	3981.8	3919.7	3914.0
15°	6434.0	6335.3	5959.9	5226.2	4560.3	4142.6	3846.3	3679.8	3640.3	3645.9	3671.3
17.5°	6493.3	6425.6	5768.0	4921.5	4190.6	3699.6	3561.3	3535.9	3572.6	3614.9	3626.2
20°	6586.4	6479.2	5689.0	4506.6	3733.4	3423.0	3414.5	3504.8	3572.6	3634.7	3643.1
22.5°	6781.1	6510.2	5432.2	4114.4	3420.2	3341.2	3423.0	3499.2	3603.6	3654.4	3609.3
25°	6837.6	6442.5	5071.0	3643.1	3222.7	3290.4	3377.9	3482.3	3555.6	3583.9	3603.6
27.5°	6885.5	6338.1	4582.8	3329.9	3160.6	3287.6	3377.9	3465.3	3504.8	3530.2	3552.8
30°	7021.0	6307.0	4159.5	3121.1	3121.1	3231.1	3346.8	3369.4	3423.0	3454.1	3493.6
32.5°	7088.7	6092.6	3725.0	2988.4	3081.6	3259.3	3267.8	3310.1	3313.0	3338.4	3296.0
35°	7266.5	5940.2	3321.4	2892.5	3098.5	3231.1	3273.4	3248.1	3109.8	3042.0	3056.2
37.5°	7396.3	5864.0	3030.8	2881.2	3101.3	3262.2	3284.7	3092.8	2948.9	2836.0	2864.3
40°	7746.2	5674.9	2810.7	2861.4	3126.7	3296.0	3233.9	3025.1	2765.5	2649.8	2630.0
42.5°	8014.3	5539.5	2672.4	2838.9	3146.5	3344.0	3208.5	2889.7	2624.4	2517.2	2545.4
45°	8324.7	5508.4	2599.0	2844.5	3180.3	3369.4	3177.5	2785.3	2503.1	2460.7	2452.3
47.5°	8434.8	5285.5	2520.0	2796.5	3171.9	3360.9	3073.1	2706.2	2457.9	2463.6	2486.1
50°	8251.3	5056.9	2460.7	2697.8	3115.4	3284.7	2909.4	2601.8	2432.5	2503.1	2542.6
52.5°	8017.1	4822.7	2339.4	2565.1	2999.7	3166.2	2833.2	2596.2	2407.1	2384.5	2393.0
55°	8087.7	4630.8	2170.1	2384.5	2813.5	2946.1	2748.6	2542.6	2345.0	2260.4	2288.6
56°	7859.1	4433.3	2060.0	2271.7	2686.5	2805.0	2706.2	2494.6	2294.2	2237.8	2237.8
57.5°	7212.9	3770.1	1916.1	2091.1	2418.4	2559.5	2624.4	2466.4	2237.8	2139.0	2141.9
60°	5319.4	2680.8	1718.6	1842.7	2003.6	2116.5	2418.4	2387.4	2096.7	2029.0	2003.6
62.5°	3279.1	1958.4	1577.5	1625.4	1707.3	1800.4	2110.8	2161.6	1947.1	1873.8	1856.8
65°	1837.1	1498.4	1470.2	1490.0	1529.5	1577.5	1752.4	1865.3	1718.6	1605.7	1600.0
67.5°	1343.2	1340.4	1363.0	1379.9	1396.9	1396.9	1439.2	1484.3	1464.6	1374.3	1365.8
70°	1193.7	1202.1	1219.1	1221.9	1227.5	1207.8	1173.9	1159.8	1182.4	1126.0	1114.7
72.5°	984.9	1013.1	1032.8	1035.7	1004.6	979.2	934.1	886.1	869.2	857.9	855.0
75°	756.3	776.0	784.5	781.7	770.4	733.7	680.1	632.1	601.1	567.2	584.1
77.5°	510.8	539.0	553.1	553.1	536.2	479.7	454.3	417.6	386.6	349.9	355.6
80°	358.4	378.1	400.7	397.9	369.7	341.5	304.8	270.9	245.5	217.3	214.5
82.5°	268.1	279.4	290.7	285.0	265.3	237.0	211.6	180.6	152.4	132.6	132.6
85°	95.9	104.4	127.0	132.6	143.9	143.9	121.3	101.6	81.8	67.7	67.7
87.5°	28.2	28.2	31.0	31.0	28.2	31.0	25.4	28.2	31.0	19.8	19.8
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)