

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: P652609

Luminaire Tested: **GALN-SA9B-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36702.1 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

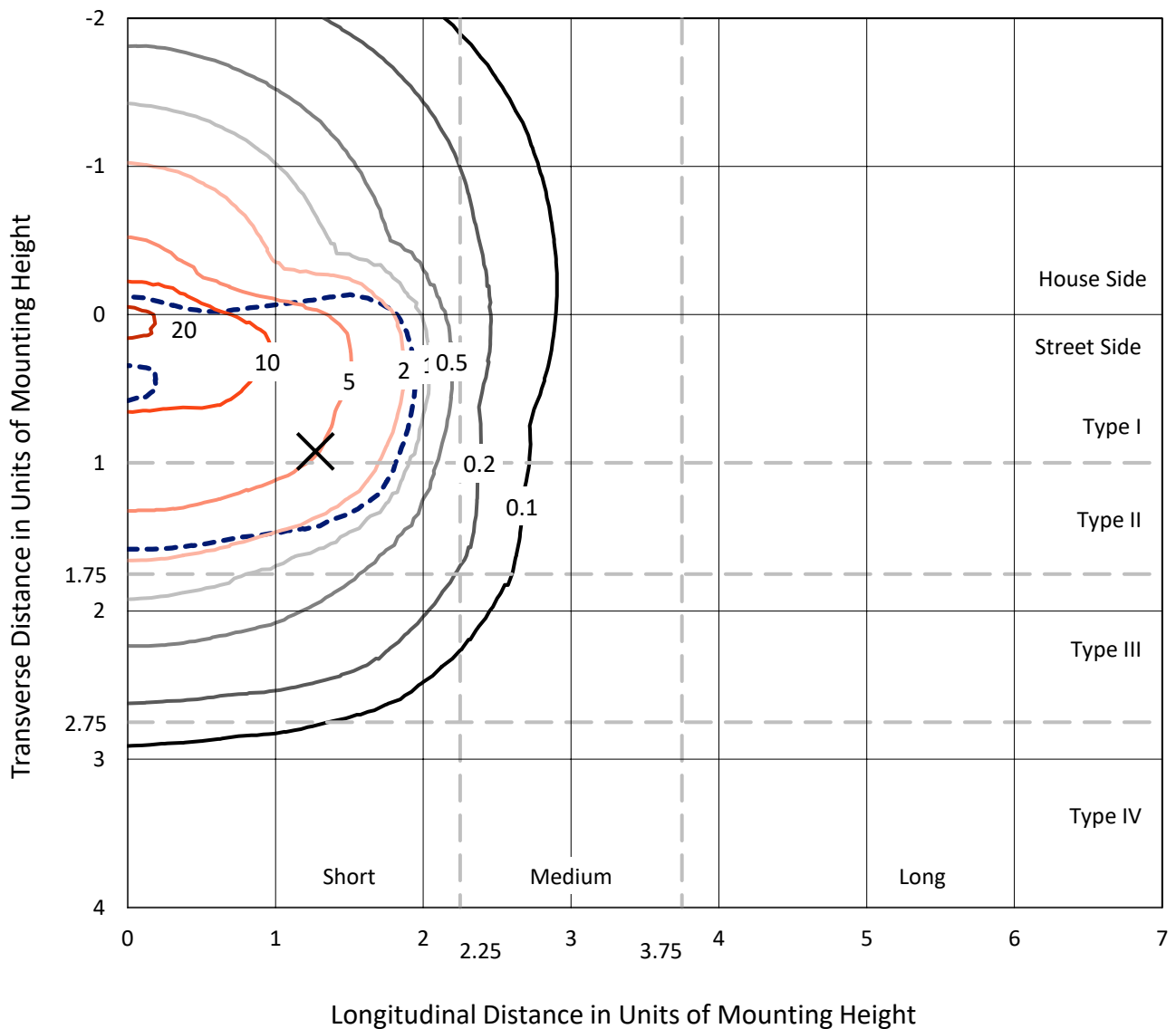
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA9B-840-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

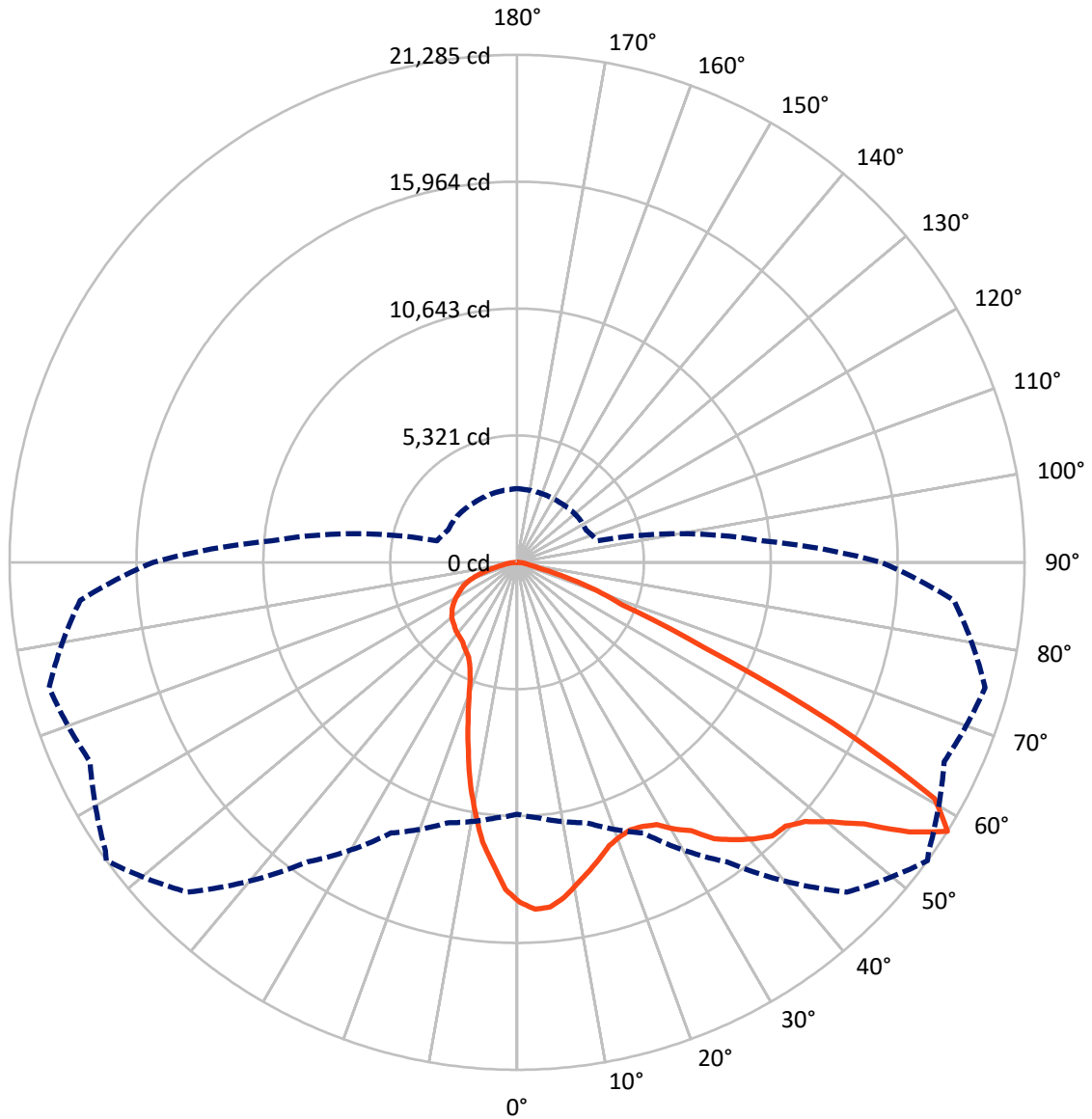
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.8 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA9B-840-U-SL3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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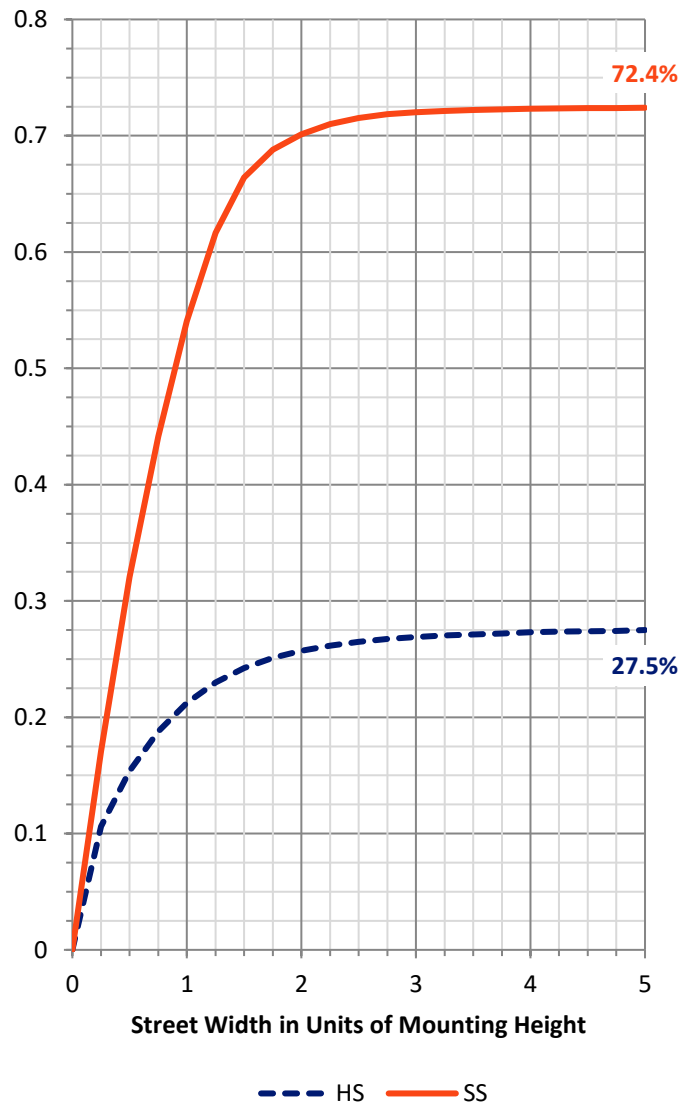
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10153.8	0.0	10153.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	26548.2	0.0	26548.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	36702.1	0.0	36702.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1230.3	3.4
10°-20°	2848.5	7.8
20°-30°	4002.2	10.9
30°-40°	5595.2	15.2
40°-50°	7574.8	20.6
50°-60°	9226.4	25.1
60°-70°	4805.5	13.1
70°-80°	1231.4	3.4
80°-90°	187.8	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°	36702.1	100.0
0°-180°	36702.1	100.0

Coefficient of Utilization

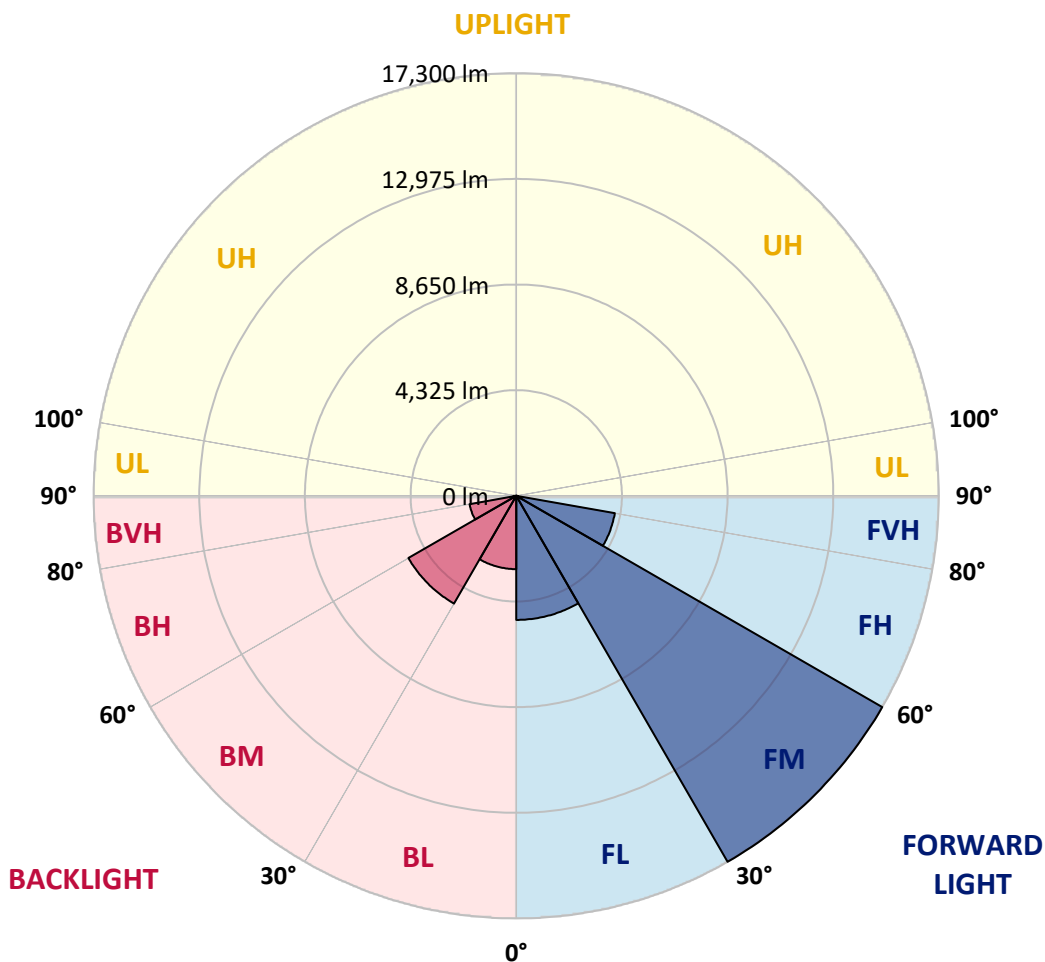


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5080.1	13.8			
FM (30°-60°)	17300.2	47.1			
FH (60°-80°)	4097.0	11.2			G2/5000
FVH (80°-90°)	71.0	0.2			G1/100
BL (0°-30°)	3001.0	8.2	B4/5000		
BM (30°-60°)	5096.1	13.9	B4/8500		
BH (60°-80°)	1939.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	116.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	14265.7	14265.7	14265.7	14265.7	14265.7	14265.7	14265.7	14265.7	14265.7	14265.7	14265.7
2.5°	14671.4	14614.8	14624.2	14699.7	14605.3	14567.6	14567.6	14383.6	14397.8	14270.4	14237.4
5°	14331.7	14199.6	14289.3	14402.5	14421.4	14459.1	14520.5	14473.3	14341.2	14204.3	13982.6
7.5°	13444.8	13562.8	13595.8	13676.0	13845.8	14001.5	14194.9	14062.9	14058.1	13921.3	13789.2
10°	12666.5	12595.7	12775.0	12892.9	13175.9	13435.4	13732.6	13718.5	13789.2	13633.5	13407.1
12.5°	11892.7	11836.1	11921.1	12190.0	12586.2	12963.7	13317.5	13185.4	13562.8	13534.5	13048.5
15°	11071.9	11114.4	11237.0	11487.1	12006.0	12458.9	12907.1	12911.8	13246.7	13360.0	12708.9
17.5°	10496.4	10449.3	10604.9	10977.6	11439.9	11982.4	12491.9	12595.7	13109.9	13175.9	12605.2
20°	10067.1	10133.1	10336.0	10524.7	11057.8	11713.5	12289.0	12326.8	13081.6	13260.9	12440.0
22.5°	9963.3	9925.6	9991.7	10298.3	10737.0	11449.4	12180.5	12322.1	13076.9	13232.5	12128.6
25°	9854.8	9977.5	9972.7	10279.4	10600.2	11237.0	12270.2	12425.9	13326.9	13378.8	12171.1
27.5°	10100.2	10085.9	10218.1	10241.7	10637.9	11293.6	12458.9	12576.8	13742.0	13699.6	12204.2
30°	10345.5	10274.7	10354.9	10633.2	10817.2	11619.2	12977.8	12968.4	14279.8	14251.5	12308.0
32.5°	10647.4	10614.3	10666.2	10911.6	11222.9	12053.2	13416.6	13694.8	14827.1	15006.3	12666.5
35°	10704.0	10840.7	10963.4	11293.6	11737.1	12756.1	14242.1	14473.3	15459.2	16020.5	13350.5
37.5°	11062.5	11114.4	11402.2	11987.1	12392.8	13694.8	14765.8	14911.9	16034.8	16671.6	14072.3
40°	11444.6	11506.0	11939.9	12553.3	13109.9	14308.1	15256.3	15303.5	16218.7	17171.6	14544.0
42.5°	11963.6	12020.2	12449.4	13218.4	13963.8	14831.8	15690.4	15742.3	16204.6	17747.2	15294.1
45°	12501.3	12638.1	13142.9	14015.7	14685.5	15445.0	15789.4	16001.7	16336.7	18261.4	15902.6
47.5°	13256.2	13383.5	13798.6	14652.5	15435.6	15982.9	16247.0	16454.6	16652.7	18709.6	16294.2
50°	14058.1	14081.7	14586.5	15360.1	15935.7	16591.4	17100.9	17171.6	17067.8	19228.5	16959.4
52.5°	14647.8	14723.3	15114.8	15869.6	16728.2	17534.9	18233.0	18308.6	18105.7	19421.9	17185.8
55°	13671.3	13628.8	14265.7	15270.5	17261.3	18940.7	19955.0	20011.6	18860.5	20021.0	17926.4
57.5°	10567.2	10770.0	11312.5	12524.9	15336.6	19563.4	21285.3	21082.4	19766.3	20322.9	18398.2
60°	7680.1	7632.9	7996.1	8807.5	11557.9	16860.3	20124.8	20332.4	19025.6	18318.0	15171.5
62.5°	6255.4	6189.3	6217.7	6245.9	7458.3	11189.8	14897.8	14893.1	14652.5	13166.5	10232.2
65°	5000.5	5156.2	5170.4	5382.7	5538.3	6684.7	8633.0	9095.3	7920.6	6496.0	4712.8
67.5°	3769.3	3712.7	3901.4	4656.2	4948.6	4826.0	4712.8	4764.7	3387.1	2443.7	2302.2
70°	2221.9	2198.4	2424.8	3245.7	4075.9	3835.3	3552.3	3557.0	2325.7	1707.7	1901.2
72.5°	1217.1	1212.4	1259.6	1646.4	2316.3	2405.9	2132.3	2198.4	1387.0	1382.2	1486.0
75°	679.4	665.1	651.0	726.5	835.0	882.2	901.0	910.5	952.9	1066.1	1108.6
77.5°	250.0	240.6	240.6	278.4	353.8	443.5	561.4	570.8	674.6	773.6	816.1
80°	84.9	94.4	127.4	174.5	235.9	316.0	382.2	391.6	476.4	542.5	556.7
82.5°	51.9	56.6	84.9	122.6	169.8	221.7	283.1	287.8	353.8	396.3	415.1
85°	23.5	28.3	47.2	75.5	108.5	146.2	151.0	151.0	146.2	151.0	141.5
87.5°	0.0	0.0	9.4	9.4	9.4	14.1	18.8	14.1	23.5	28.3	28.3
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°	14265.7	14265.7	14265.7	14265.7	14265.7	14265.7	14265.7	14265.7	14265.7	14265.7	14265.7
2.5°	14138.3	14086.4	13926.0	13784.5	13742.0	13553.3	13275.0	13308.1	13105.2	13199.5	13100.4
5°	13944.9	13770.4	13360.0	13185.4	12727.8	12520.2	12378.7	12024.9	11859.8	11826.7	11685.2
7.5°	13449.5	13341.0	12826.8	12355.1	11869.2	11454.1	10921.0	10557.7	10298.3	10227.5	10019.9
10°	13058.0	12817.4	12105.1	11388.0	10694.6	9972.7	9279.3	8736.8	8472.6	8165.9	8062.2
12.5°	12671.2	12308.0	11345.6	10425.6	9529.3	8618.8	7779.2	7118.7	6543.1	6406.3	6359.1
15°	12430.6	11798.5	10666.2	9557.6	8283.9	7095.1	6255.4	5821.4	5467.6	5321.3	5425.1
17.5°	12114.5	11378.6	10015.2	8538.7	7137.6	6043.1	5340.2	5071.3	4943.9	4958.1	4915.6
20°	11718.2	10982.3	9161.3	7614.0	6113.9	5241.1	4840.1	4741.1	4760.0	4792.9	4778.8
22.5°	11435.2	10501.1	8543.4	6670.6	5283.6	4797.7	4632.6	4561.8	4623.1	4651.4	4627.9
25°	11218.2	10090.7	7793.3	5835.5	4802.4	4547.6	4472.2	4467.5	4561.8	4599.5	4576.0
27.5°	11020.0	9708.6	7047.9	5198.6	4481.6	4354.3	4330.6	4387.2	4448.6	4486.3	4519.4
30°	10902.1	9416.1	6349.7	4665.6	4321.2	4259.9	4217.4	4269.3	4302.4	4340.1	4321.2
32.5°	11015.3	9208.5	5675.2	4363.7	4189.1	4127.8	4184.4	4151.4	4208.0	4241.0	4189.1
35°	11369.1	9024.5	5193.9	4203.3	4038.1	4061.8	4071.2	4057.1	4080.6	4052.4	4113.7
37.5°	11718.2	8958.5	4750.5	4066.5	3967.4	3967.4	3958.0	3929.7	3976.8	3967.4	3995.7
40°	12161.7	9001.0	4373.1	3920.2	3901.4	3891.9	3854.2	3849.5	3830.6	3835.3	3844.7
42.5°	12548.5	9095.3	4156.1	3825.9	3840.0	3858.9	3788.1	3731.5	3755.1	3708.0	3708.0
45°	12959.0	9180.2	3962.7	3759.9	3745.6	3740.9	3684.3	3651.4	3632.4	3637.2	3679.6
47.5°	13605.2	9302.9	3816.5	3670.2	3679.6	3608.9	3594.7	3552.3	3571.1	3599.5	3604.2
50°	14062.9	9562.3	3703.3	3566.4	3599.5	3552.3	3467.4	3448.5	3448.5	3495.6	3486.2
52.5°	14383.6	9925.6	3594.7	3453.2	3467.4	3429.6	3401.3	3358.9	3330.5	3396.6	3429.6
55°	15364.8	10529.4	3566.4	3358.9	3354.2	3316.4	3264.5	3222.0	3207.9	3217.3	3283.3
57.5°	15270.5	10340.8	3476.8	3193.7	3184.3	3132.4	3080.5	3066.4	3061.7	3071.1	3089.9
60°	12397.5	7637.6	3104.1	3005.1	2990.8	2981.4	2929.5	2872.9	2844.7	2872.9	2849.4
62.5°	8203.7	5113.8	2736.1	2778.6	2788.0	2764.5	2679.5	2622.9	2632.3	2665.4	2613.5
65°	4028.7	3005.1	2481.4	2594.7	2604.1	2538.0	2457.8	2391.8	2358.8	2387.0	2363.5
67.5°	2302.2	2297.4	2273.8	2391.8	2387.0	2321.0	2193.7	2137.0	2080.4	2089.9	2075.7
70°	1953.1	1990.8	2038.0	2108.7	2104.0	2028.5	1877.5	1835.1	1754.9	1745.5	1721.9
72.5°	1537.9	1604.0	1707.7	1759.6	1717.2	1622.8	1523.7	1453.0	1382.2	1339.8	1353.9
75°	1141.7	1236.0	1292.6	1325.6	1259.6	1207.7	1127.4	1042.6	957.6	919.9	905.8
77.5°	830.3	858.6	910.5	934.1	891.6	839.7	792.6	707.6	627.4	575.5	561.4
80°	580.3	599.1	636.9	636.9	636.9	613.3	551.9	467.0	415.1	367.9	358.5
82.5°	405.7	424.5	462.3	443.5	438.7	410.4	372.6	306.6	250.0	217.0	207.6
85°	141.5	155.7	188.7	226.5	240.6	235.9	212.3	169.8	132.1	108.5	99.1
87.5°	33.1	33.1	37.8	33.1	33.1	37.8	33.1	33.1	33.1	23.5	18.8
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)