

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: P455996

Luminaire Tested: **GALN-SA7B-727-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27127 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

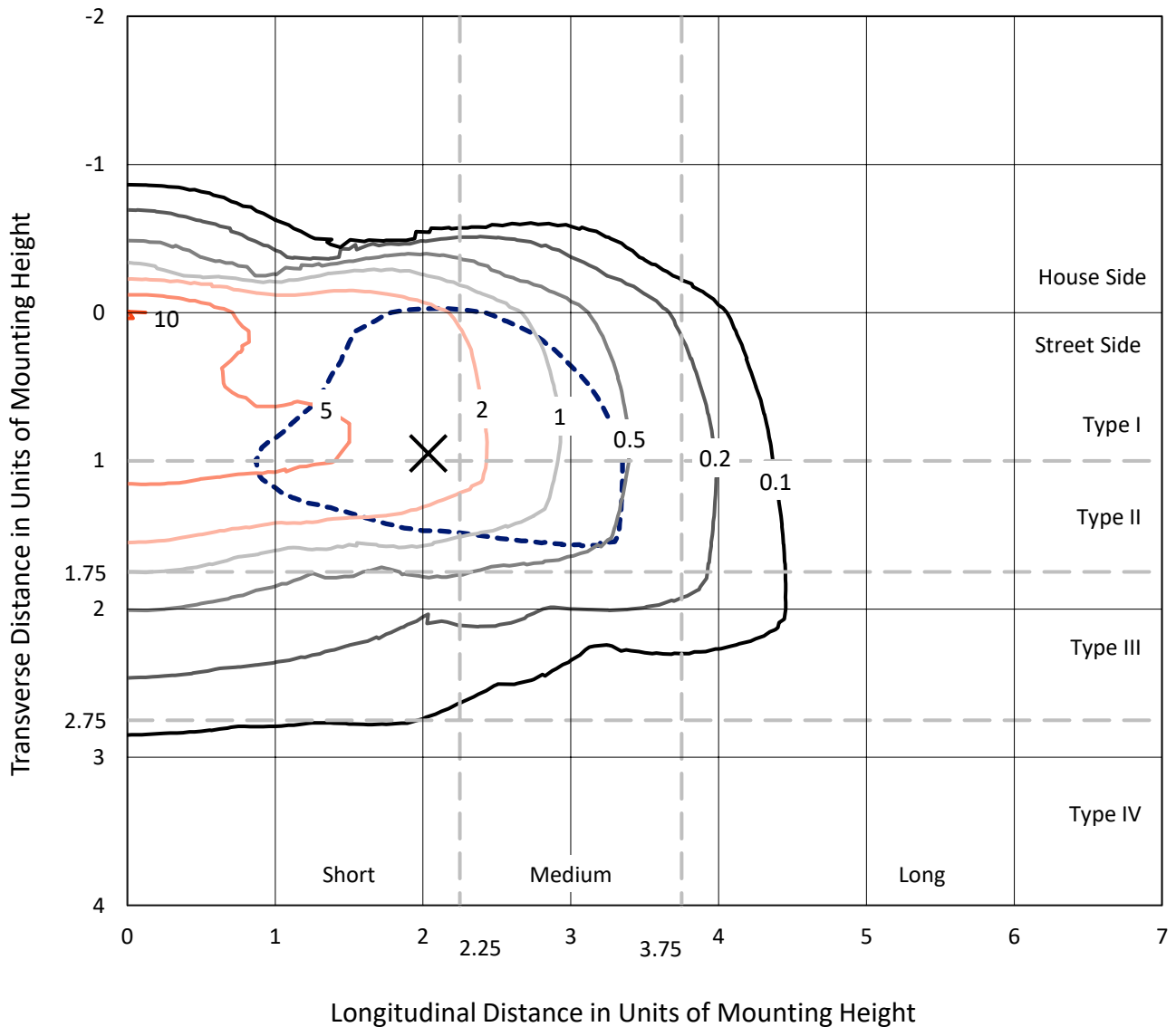
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

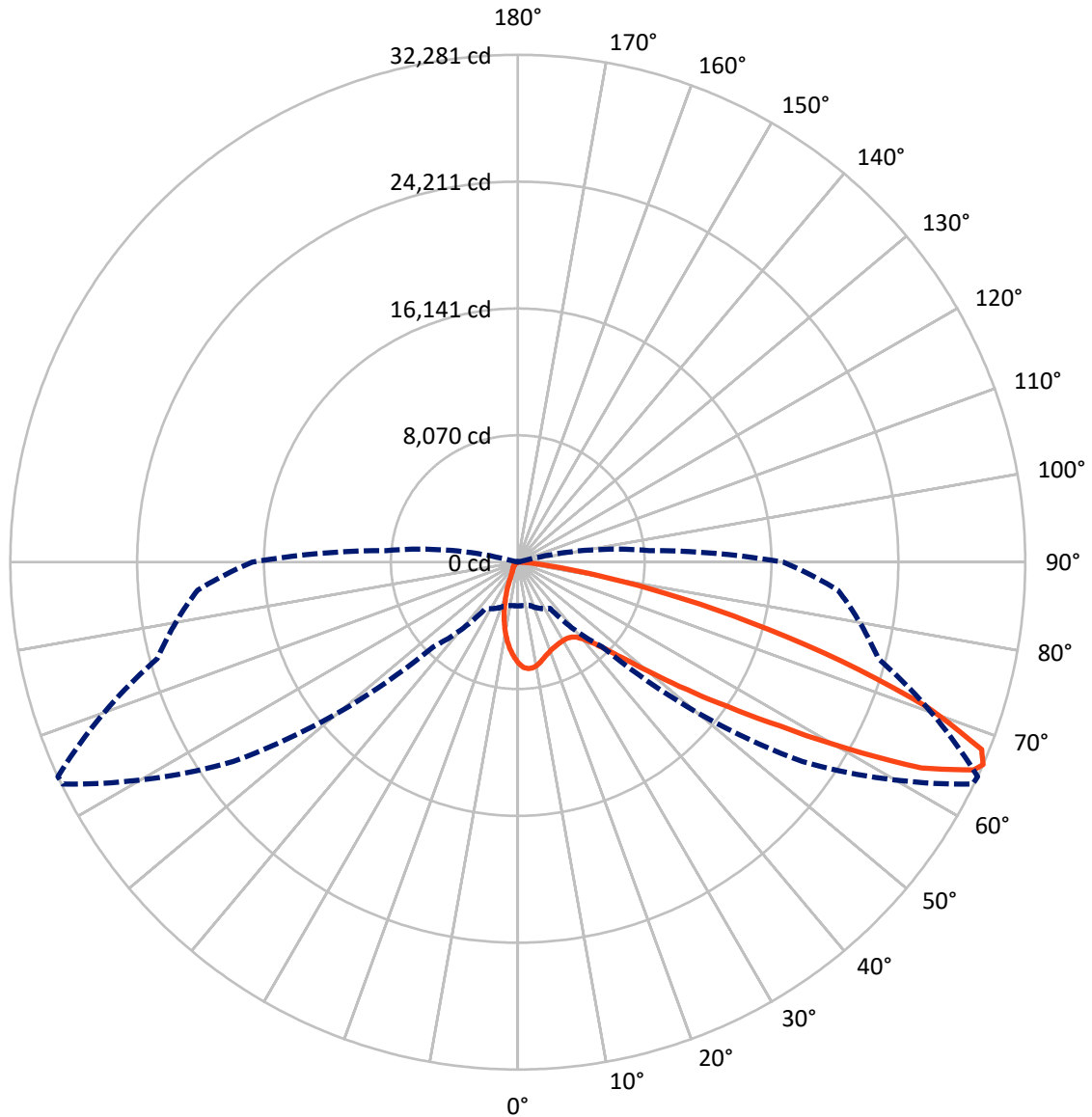
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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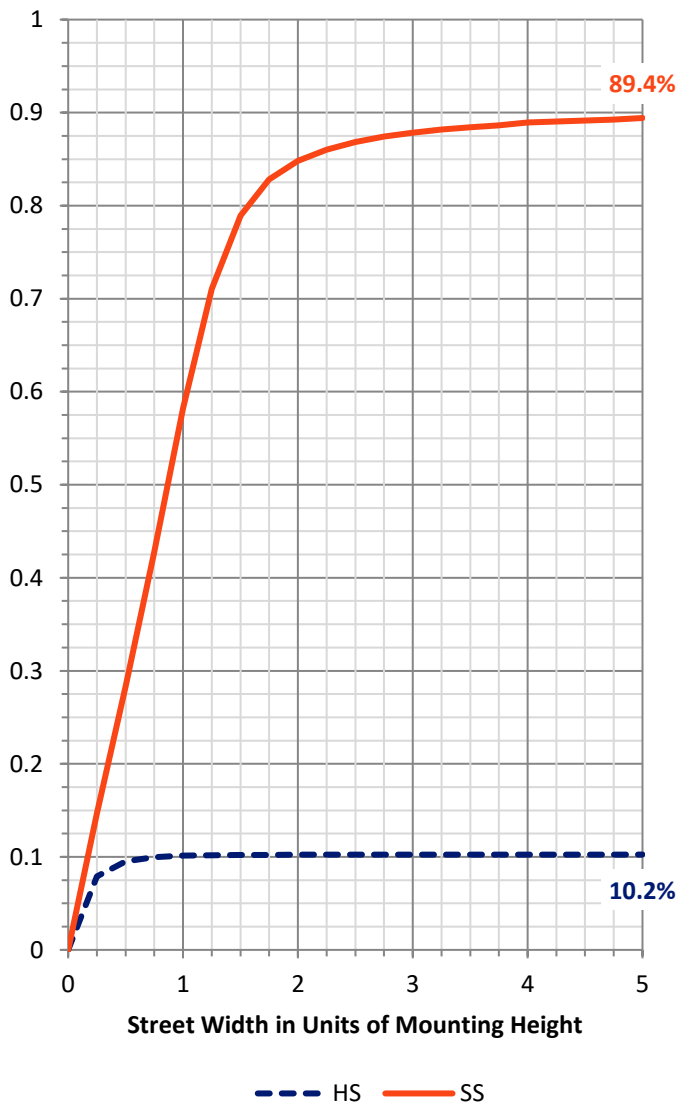
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2805.3	0.0	2805.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	24321.7	0.0	24321.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	27127.0	0.0	27127.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.1	1.9
10°-20°	1146.3	4.2
20°-30°	1642.1	6.1
30°-40°	2398.4	8.8
40°-50°	4021.7	14.8
50°-60°	6711.6	24.7
60°-70°	7124.1	26.3
70°-80°	3226.5	11.9
80°-90°	330.1	1.2
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°	27127.0	100.0
0°-180°	27127.0	100.0

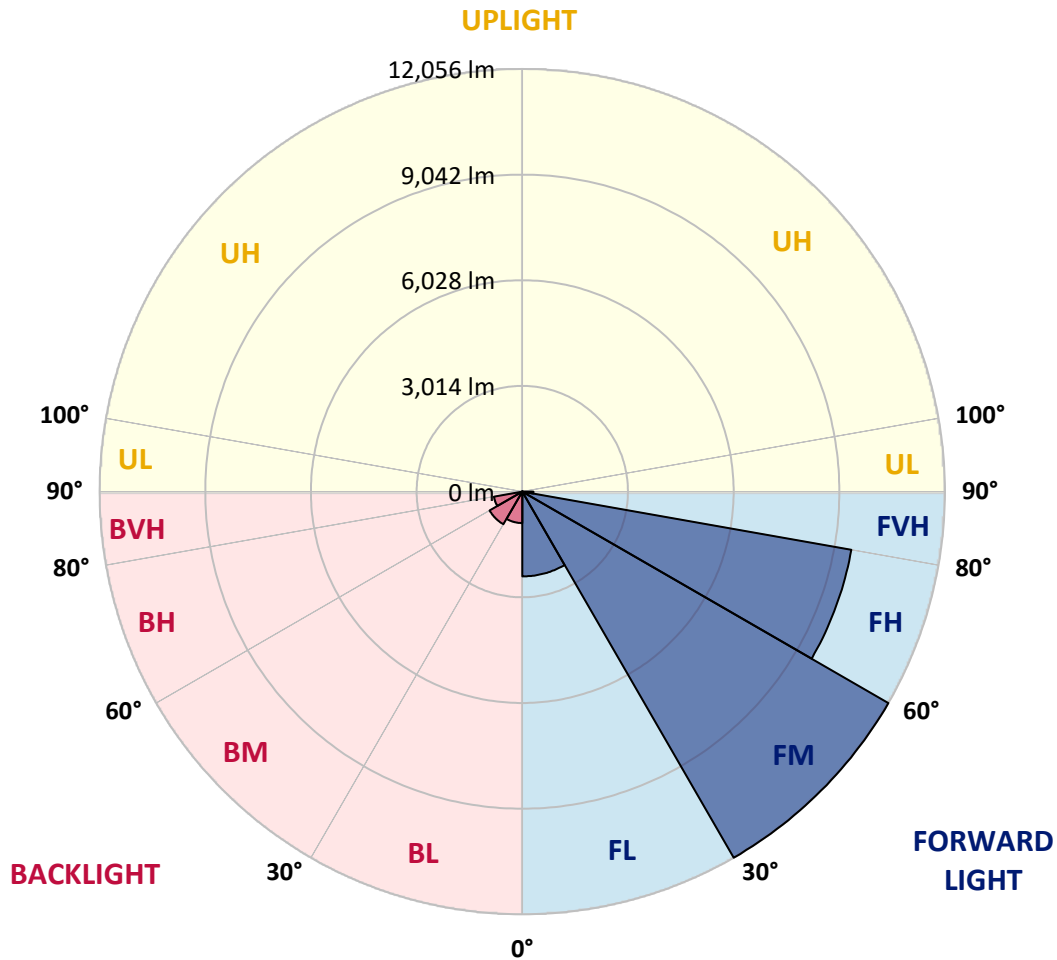


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2417.1	8.9			
FM (30°-60°)	12055.9	44.4			
FH (60°-80°)	9529.1	35.1			G4/12000
FVH (80°-90°)	319.6	1.2			G3/500
BL (0°-30°)	897.4	3.3	B2/1000		
BM (30°-60°)	1075.9	4.0	B2/2500		
BH (60°-80°)	821.6	3.0	B2/1000		G2/1000
BVH (80°-90°)	10.5	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6432.8	6432.8	6432.8	6432.8	6432.8	6432.8	6432.8	6432.8	6432.8	6432.8	6432.8
2.5°	6779.1	6786.4	6795.6	6808.4	6817.6	6790.1	6751.6	6707.6	6698.5	6605.0	6491.4
5°	6416.3	6427.3	6507.9	6551.9	6650.8	6740.6	6797.4	6804.7	6801.1	6713.1	6531.8
7.5°	5899.6	5930.8	6009.6	6086.5	6271.6	6442.0	6643.5	6784.6	6793.8	6769.9	6544.6
10°	5480.1	5500.2	5540.5	5692.6	5846.5	6106.7	6388.8	6654.5	6676.5	6771.8	6533.6
12.5°	5152.1	5181.4	5230.9	5348.2	5533.2	5778.7	6099.4	6456.6	6502.4	6737.0	6502.4
15°	4923.1	4937.7	4987.2	5102.6	5282.2	5509.4	5833.7	6249.6	6289.9	6691.2	6496.9
17.5°	4815.0	4831.5	4866.3	4957.9	5106.3	5317.0	5634.0	6082.9	6134.2	6661.8	6517.1
20°	4844.3	4859.0	4860.8	4908.4	5009.2	5186.9	5487.4	5927.1	5993.1	6643.5	6550.1
22.5°	5011.0	5012.9	4990.9	4968.9	5003.7	5132.0	5397.6	5828.2	5896.0	6639.8	6588.5
25°	5260.2	5265.7	5229.1	5152.1	5082.5	5148.4	5377.5	5764.1	5824.5	6630.7	6612.4
27.5°	5604.7	5602.8	5591.8	5463.6	5265.7	5221.7	5394.0	5729.3	5780.6	6605.0	6621.5
30°	6086.5	6071.9	6048.1	5903.3	5601.0	5399.5	5463.6	5707.3	5754.9	6568.4	6597.7
32.5°	6561.1	6616.0	6612.4	6475.0	6097.5	5716.4	5608.3	5736.6	5771.4	6544.6	6562.9
35°	7114.4	7112.6	7253.6	7202.3	6760.8	6121.3	5855.7	5833.7	5861.2	6561.1	6546.4
37.5°	7627.4	7675.0	7894.9	7948.0	7545.0	6693.0	6205.6	6042.6	6051.7	6672.8	6586.7
40°	8266.8	8358.4	8686.4	8864.1	8508.7	7541.3	6722.3	6425.5	6427.3	6947.7	6738.8
42.5°	9091.3	9236.1	9542.0	9838.8	9648.3	8545.3	7497.3	7031.9	7028.3	7431.4	7086.9
45°	10093.5	10194.3	10542.4	11013.3	10892.4	9946.9	8625.9	7971.9	7924.2	8224.7	7704.4
47.5°	10958.3	11095.7	11449.3	11986.2	12535.8	11658.2	9974.4	9263.5	9232.4	9487.1	8763.4
50°	11335.7	11456.7	11828.6	12581.6	13913.6	13904.5	11982.5	11148.9	11095.7	11233.1	10401.3
52.5°	10921.7	11035.3	11410.9	12348.9	14562.2	16641.8	14892.0	13514.2	13450.1	13274.2	12358.1
55°	9503.6	9597.0	10152.2	11229.5	14313.1	18466.6	18900.9	16436.6	16187.4	15504.0	14573.2
57.5°	7566.9	7519.3	7863.8	9115.1	12851.0	19078.6	23015.9	20077.1	19631.9	17431.4	16447.6
60°	5243.7	5390.3	5529.5	6354.0	9663.0	18017.7	25575.5	24653.9	24067.6	19327.8	18243.1
62.5°	3854.9	3952.0	4043.6	4424.7	6075.5	14386.3	26028.1	29355.3	28835.0	21341.3	19956.2
65°	3048.8	3056.1	3092.7	3468.3	4003.3	9355.2	23853.3	32006.5	31872.7	23279.8	20650.6
66°	2777.6	2779.4	2836.2	3239.3	3592.9	7618.2	22110.8	32208.0	32281.3	23745.2	20447.2
67.5°	2427.6	2420.3	2502.8	2911.3	3272.3	5492.9	18992.5	31390.9	31825.1	24102.4	19716.2
70°	1881.7	1872.5	1973.3	2442.3	3013.9	3664.4	12623.8	26953.3	27653.2	23371.4	17444.3
72.5°	1253.2	1260.5	1432.8	1927.5	2876.5	3226.5	7594.4	20504.0	21493.4	19300.3	13723.1
75°	731.0	743.9	939.9	1432.8	2497.3	3076.2	4298.3	14620.9	15253.0	13327.3	8549.0
77.5°	382.9	388.4	525.8	945.4	1914.6	2856.4	2863.7	9340.5	9637.3	6476.8	3384.1
80°	203.4	197.9	282.2	569.8	1317.3	2508.3	2323.2	4945.1	5141.1	1923.8	855.6
82.5°	77.0	84.3	150.2	373.8	778.7	1801.0	2000.7	2185.8	2118.0	423.2	359.1
85°	14.7	18.3	64.1	221.7	392.1	753.0	1474.9	1071.8	993.0	159.4	207.0
87.5°	1.8	3.7	18.3	53.1	56.8	254.7	436.1	296.8	256.5	58.6	86.1
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°	6432.8	6432.8	6432.8	6432.8	6432.8	6432.8	6432.8	6432.8	6432.8	6432.8	6432.8
2.5°	6436.5	6387.0	6222.1	6059.0	5892.3	5742.1	5639.5	5472.7	5430.6	5370.1	5335.3
5°	6423.7	6308.2	5991.3	5645.0	5322.5	4974.4	4708.7	4452.2	4314.8	4245.2	4219.5
7.5°	6387.0	6203.8	5709.1	5166.8	4650.1	4129.8	3677.2	3332.8	3111.1	2959.0	2856.4
10°	6313.7	6060.9	5381.1	4635.4	3854.9	3167.9	2594.4	2158.3	1821.2	1714.9	1718.6
12.5°	6238.6	5901.5	5014.7	4045.5	3078.1	2211.5	1603.2	1258.7	1097.5	1044.3	1033.4
15°	6169.0	5749.4	4655.6	3473.8	2292.1	1432.8	1033.4	912.4	868.5	859.3	857.5
17.5°	6132.3	5608.3	4272.7	2819.7	1599.5	972.9	828.1	795.2	782.3	773.2	769.5
20°	6101.2	5485.6	3906.2	2207.8	1093.8	797.0	742.0	710.9	688.9	679.7	674.2
22.5°	6079.2	5359.1	3527.0	1709.4	837.3	707.2	657.8	617.4	586.3	575.3	568.0
25°	6046.2	5219.9	3144.0	1249.6	705.4	628.4	571.6	524.0	483.7	463.5	459.9
27.5°	5998.6	5062.3	2724.5	925.3	630.3	558.8	489.2	430.6	390.3	368.3	370.1
30°	5921.6	4897.4	2304.9	734.7	569.8	487.4	412.2	355.4	317.0	300.5	298.6
32.5°	5830.0	4697.7	1920.1	630.3	514.8	423.2	344.5	295.0	265.7	252.8	251.0
35°	5743.9	4496.2	1528.0	566.1	458.0	364.6	289.5	247.3	225.4	214.4	216.2
37.5°	5696.3	4316.6	1190.9	514.8	412.2	313.3	249.2	212.5	192.4	183.2	181.4
40°	5727.4	4170.1	947.2	469.0	360.9	269.3	214.4	183.2	163.1	150.2	150.2
42.5°	5874.0	4105.9	764.0	425.1	313.3	232.7	186.9	157.6	135.6	122.8	124.6
45°	6321.0	4173.7	639.4	384.8	269.3	201.5	161.2	130.1	109.9	100.8	98.9
47.5°	7063.1	4428.4	553.3	342.6	230.9	172.2	135.6	108.1	87.9	80.6	78.8
50°	8360.3	4954.2	489.2	300.5	196.0	146.6	111.8	86.1	69.6	62.3	62.3
52.5°	10144.8	6101.2	443.4	252.8	164.9	124.6	91.6	69.6	55.0	49.5	47.6
55°	12010.0	7310.4	419.6	212.5	137.4	102.6	73.3	55.0	42.1	36.6	34.8
57.5°	13803.7	8259.5	392.1	172.2	109.9	78.8	56.8	42.1	29.3	25.7	23.8
60°	15524.1	9027.2	333.5	137.4	86.1	56.8	42.1	29.3	20.2	16.5	16.5
62.5°	17063.2	9474.2	262.0	109.9	66.0	40.3	27.5	22.0	14.7	11.0	11.0
65°	17242.7	8893.4	197.9	84.3	47.6	25.7	16.5	16.5	11.0	7.3	7.3
66°	16881.8	8400.6	174.1	77.0	42.1	22.0	14.7	12.8	9.2	5.5	5.5
67.5°	16075.6	7559.6	150.2	66.0	34.8	16.5	11.0	11.0	7.3	3.7	3.7
70°	13889.8	6174.5	119.1	49.5	25.7	12.8	7.3	7.3	5.5	3.7	3.7
72.5°	10586.4	4609.8	97.1	36.6	18.3	9.2	5.5	5.5	5.5	3.7	3.7
75°	6385.2	2482.6	75.1	27.5	16.5	7.3	3.7	5.5	7.3	5.5	3.7
77.5°	2352.5	844.6	58.6	22.0	12.8	7.3	3.7	3.7	7.3	5.5	5.5
80°	577.1	219.9	42.1	18.3	12.8	7.3	3.7	3.7	7.3	7.3	7.3
82.5°	267.5	93.4	29.3	16.5	12.8	7.3	3.7	3.7	5.5	7.3	7.3
85°	153.9	44.0	23.8	18.3	12.8	7.3	3.7	3.7	5.5	7.3	7.3
87.5°	62.3	22.0	22.0	18.3	14.7	9.2	3.7	3.7	3.7	5.5	5.5
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)