

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: P456036

Luminaire Tested: **GALN-SA7B-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26983 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

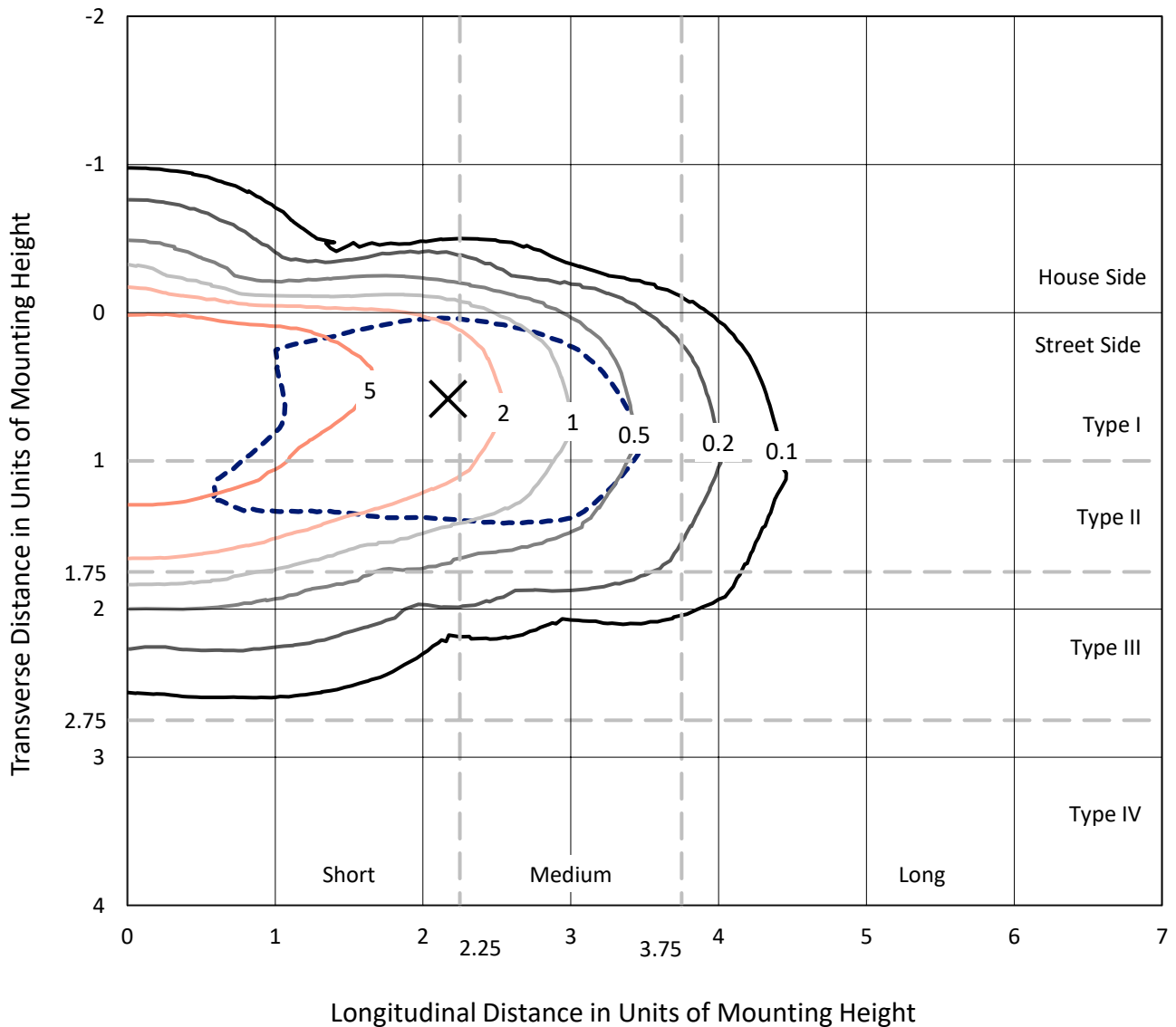
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

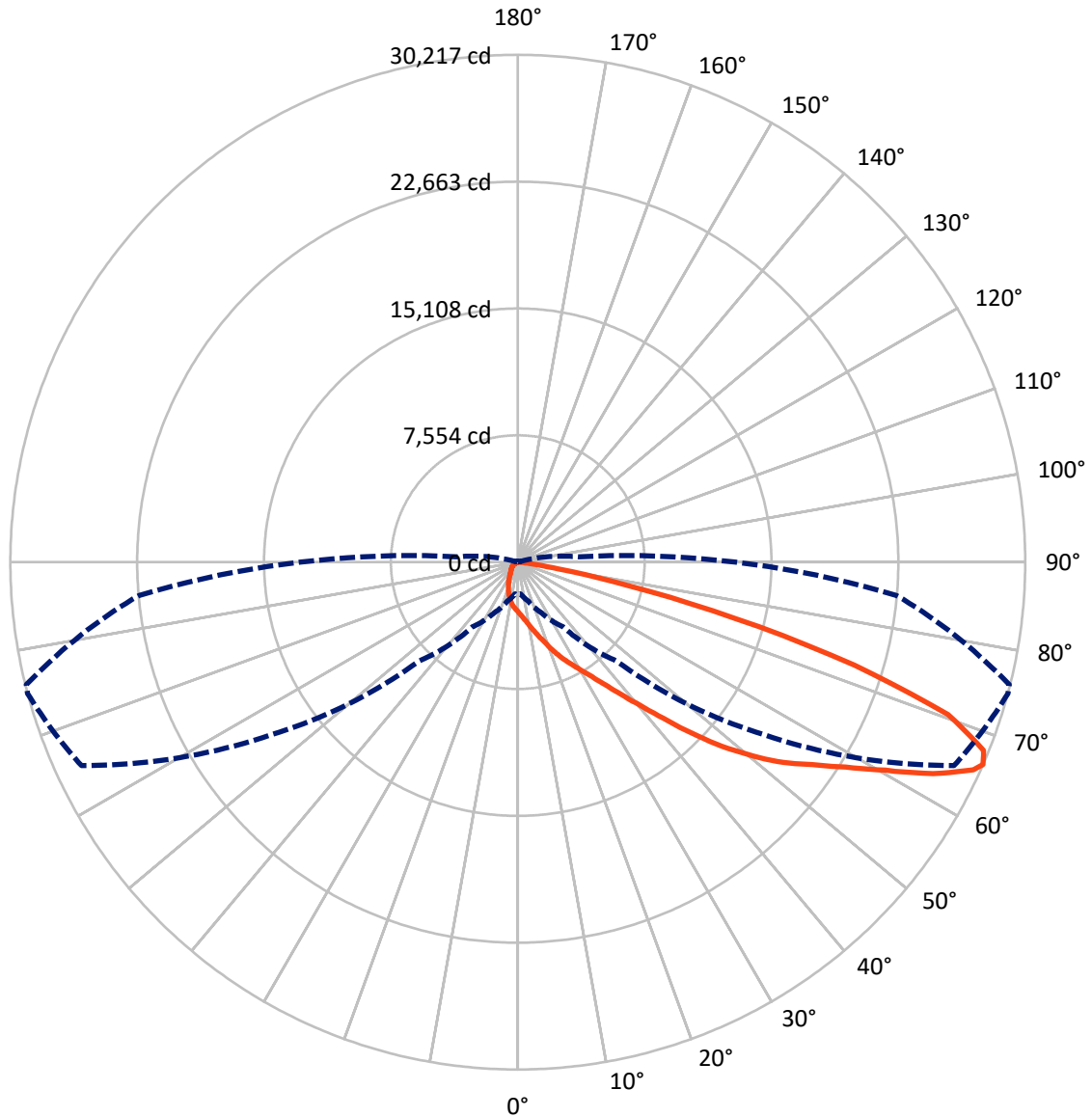
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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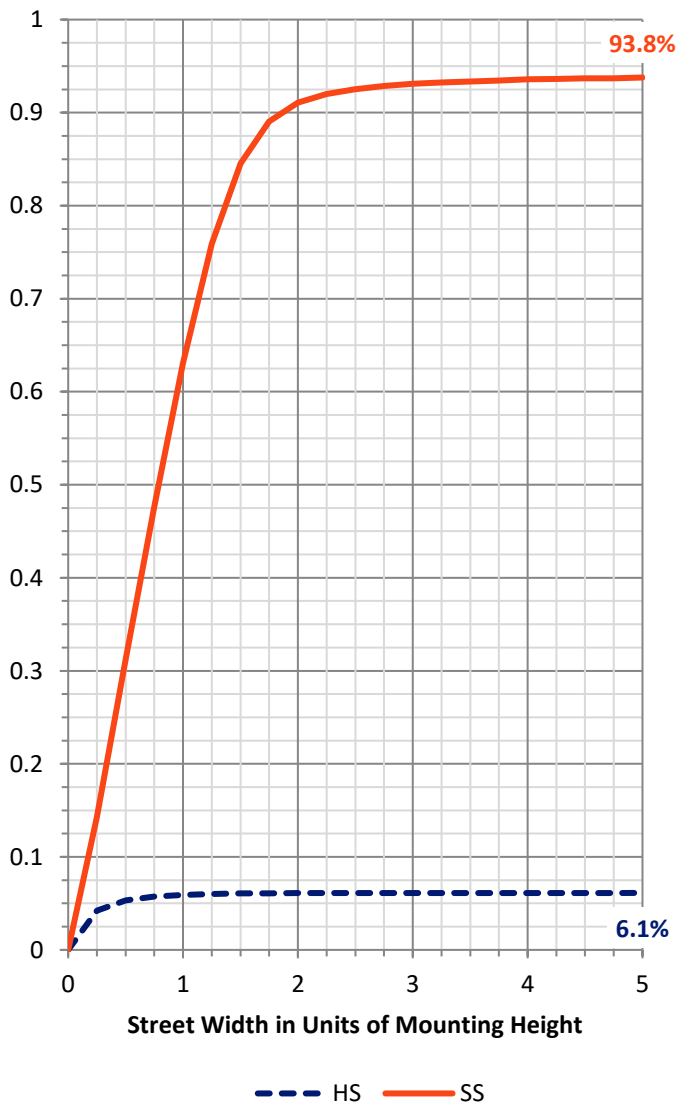
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1665.8	0.0	1665.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	25317.2	0.0	25317.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	26983.0	0.0	26983.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	1.1
10°-20°	837.6	3.1
20°-30°	1446.4	5.4
30°-40°	2609.0	9.7
40°-50°	4713.3	17.5
50°-60°	7348.0	27.2
60°-70°	6980.3	25.9
70°-80°	2616.1	9.7
80°-90°	147.6	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°	26983.0	100.0
0°-180°	26983.0	100.0



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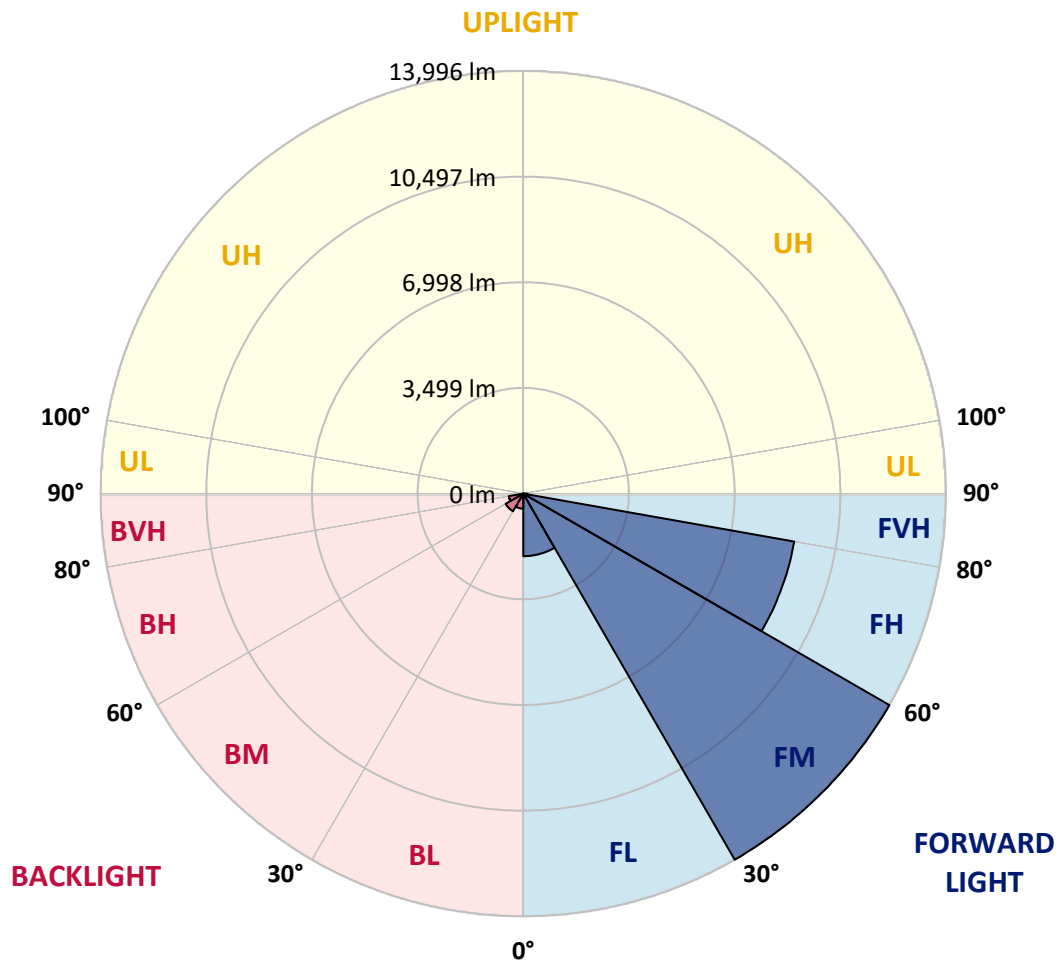
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2071.2	7.7			
FM (30°-60°)	13996.1	51.9			
FH (60°-80°)	9110.0	33.8			G4/12000
FVH (80°-90°)	140.0	0.5			G2/225
BL (0°-30°)	497.5	1.8	B1/500		
BM (30°-60°)	674.3	2.5	B1/1000		
BH (60°-80°)	486.4	1.8	B1/500		G1/500
BVH (80°-90°)	7.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9
2.5°	3525.5	3481.6	3495.5	3475.6	3429.7	3361.9	3302.0	3216.2	3130.4	3116.5	3020.7
5°	3990.3	3978.4	3962.4	3904.5	3872.6	3768.9	3645.2	3497.5	3320.0	3288.0	3114.5
7.5°	4307.6	4301.6	4309.6	4279.6	4251.7	4157.9	4026.3	3824.7	3549.4	3531.5	3242.2
10°	4411.3	4427.3	4457.2	4505.1	4549.0	4519.1	4419.3	4167.9	3846.7	3794.8	3387.8
12.5°	4351.5	4369.4	4441.3	4568.9	4710.6	4792.4	4752.5	4568.9	4161.9	4120.0	3551.4
15°	4197.8	4219.8	4321.5	4519.1	4772.4	5003.9	5103.6	4972.0	4529.0	4461.2	3748.9
17.5°	3970.4	4002.3	4148.0	4409.3	4756.5	5155.5	5436.8	5392.9	4920.1	4856.2	3964.4
20°	3798.8	3822.7	3946.4	4245.7	4688.7	5239.3	5754.1	5877.8	5402.9	5293.2	4217.8
22.5°	3912.5	3920.5	3962.4	4142.0	4566.9	5261.3	6033.4	6382.6	5915.7	5817.9	4481.2
25°	4469.2	4389.4	4347.5	4307.6	4541.0	5241.3	6286.8	6909.3	6426.4	6322.7	4742.5
27.5°	5347.1	5311.1	5099.7	4816.3	4762.5	5267.3	6454.4	7408.1	6907.3	6795.6	4997.9
30°	6302.7	6240.9	6111.2	5696.2	5279.2	5450.8	6576.1	7892.9	7475.9	7328.3	5231.3
32.5°	7180.6	7220.5	7027.0	6600.0	6117.2	5841.9	6733.7	8421.6	8128.3	7944.8	5502.7
35°	8204.1	8283.9	7986.7	7577.7	7013.0	6548.2	7041.0	9018.2	8956.3	8724.9	5921.7
37.5°	9243.6	9291.5	9110.0	8535.3	8026.6	7446.0	7619.6	9754.4	9975.9	9778.3	6422.5
40°	10117.5	10183.4	10049.7	9538.9	8996.2	8485.5	8459.5	10556.4	11188.9	10985.4	7168.6
42.5°	10785.9	10835.8	10839.8	10478.6	9989.8	9758.4	9530.9	11580.0	12709.2	12473.8	8034.6
45°	11629.9	11701.7	11659.8	11414.4	11049.3	11007.4	10889.6	12817.0	14528.8	14231.6	9157.8
47.5°	12934.7	12982.6	12878.8	12589.5	12218.4	12284.3	12214.4	14203.6	16384.3	16129.0	10321.0
50°	13840.5	13920.3	14068.0	14183.7	13914.3	13670.9	13463.4	15498.5	18146.1	17916.6	11510.1
52.5°	13830.5	13962.2	14429.1	15011.7	15600.2	15526.4	14929.9	16929.0	19828.0	19544.7	12627.4
55°	12898.8	13154.2	13840.5	14874.0	16504.1	17316.1	17044.7	18585.0	21280.5	21089.0	13922.3
57.5°	10975.4	11131.1	12084.8	13529.3	15999.3	18158.1	19494.8	20829.6	23022.3	22932.5	15933.4
60°	7382.1	7452.0	8679.0	10464.7	13621.0	17318.1	21290.5	23545.0	25167.1	25123.2	18281.8
62.5°	4229.8	4259.7	5149.5	6655.9	9692.5	14676.5	21442.1	26894.9	27738.9	27762.8	20999.2
65°	2276.5	2292.5	3010.7	3906.5	5897.7	10460.7	19281.3	28730.5	29817.8	29863.7	22683.1
66°	1965.2	1889.4	2396.2	3329.9	4692.6	8325.8	17914.6	28664.6	30216.9	30167.0	22623.2
67.5°	1494.4	1562.2	1913.4	2559.8	3477.6	5919.7	14790.2	27389.7	29913.6	29758.0	21703.5
70°	1069.4	1097.3	1362.7	1825.6	2368.3	3248.1	9451.1	22748.9	27188.2	26978.7	18908.2
72.5°	690.3	720.3	965.7	1320.8	1711.9	1773.7	5291.2	16436.2	20961.3	20931.3	14239.5
75°	492.8	520.7	638.5	945.7	1286.9	1097.3	2547.8	11077.2	13325.7	13236.0	8808.7
77.5°	357.1	371.1	427.0	618.5	919.8	786.1	1181.1	5915.7	6633.9	6947.2	3892.6
80°	205.5	217.5	297.3	377.1	622.5	536.7	564.6	2374.3	2448.1	2330.4	1217.1
82.5°	101.8	115.7	177.6	257.4	389.1	361.1	259.4	714.3	754.2	734.2	307.3
85°	23.9	29.9	99.8	169.6	189.5	161.6	125.7	209.5	259.4	253.4	117.7
87.5°	2.0	4.0	35.9	29.9	31.9	53.9	43.9	53.9	83.8	77.8	41.9
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°	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9
2.5°	2976.8	2938.9	2829.2	2721.4	2631.6	2537.9	2452.1	2402.2	2382.2	2360.3	2370.3
5°	3018.7	2926.9	2705.5	2513.9	2326.4	2166.8	2039.1	1957.3	1917.4	1911.4	1901.4
7.5°	3074.6	2916.9	2573.8	2274.5	2029.1	1851.5	1705.9	1588.2	1552.2	1520.3	1494.4
10°	3142.4	2899.0	2410.2	2023.1	1761.7	1538.3	1346.7	1207.1	1135.3	1115.3	1129.3
12.5°	3214.2	2865.1	2238.6	1791.7	1490.4	1205.1	1027.5	957.7	937.7	929.7	931.7
15°	3286.0	2823.2	2059.0	1568.2	1187.1	961.7	879.9	861.9	853.9	849.9	846.0
17.5°	3351.9	2755.3	1857.5	1350.7	961.7	822.0	792.1	776.1	760.2	754.2	744.2
20°	3429.7	2677.5	1675.9	1107.3	814.0	744.2	708.3	678.4	654.4	638.5	636.5
22.5°	3503.5	2577.8	1486.4	917.8	742.2	668.4	610.5	578.6	550.7	530.7	536.7
25°	3543.4	2456.1	1316.8	800.1	676.4	592.6	528.7	488.8	458.9	448.9	446.9
27.5°	3543.4	2306.4	1151.2	732.2	616.5	524.7	458.9	421.0	401.0	387.1	389.1
30°	3515.5	2140.8	997.6	680.4	564.6	464.9	403.0	369.1	353.1	343.2	341.2
32.5°	3493.5	1983.2	865.9	630.5	510.8	413.0	359.1	333.2	317.2	307.3	307.3
35°	3527.5	1847.5	764.2	580.6	460.9	373.1	325.2	301.3	285.3	277.3	275.3
37.5°	3617.2	1723.8	686.3	526.7	415.0	339.2	301.3	273.3	257.4	247.4	243.4
40°	3838.7	1654.0	628.5	476.8	371.1	311.2	273.3	247.4	227.4	217.5	215.5
42.5°	4193.8	1656.0	572.6	431.0	337.2	287.3	249.4	219.5	197.5	187.5	185.6
45°	4728.6	1731.8	528.7	387.1	307.3	261.4	223.5	191.5	171.6	161.6	161.6
47.5°	5369.0	1879.5	490.8	349.2	279.3	237.4	197.5	165.6	145.6	137.7	137.7
50°	6063.3	2071.0	452.9	309.3	255.4	211.5	169.6	143.7	127.7	121.7	121.7
52.5°	6771.6	2302.4	415.0	277.3	229.4	183.6	145.6	127.7	113.7	109.7	107.7
55°	7701.4	2597.7	375.1	243.4	201.5	157.6	129.7	111.7	95.8	89.8	87.8
57.5°	9131.9	3042.6	331.2	213.5	165.6	131.7	111.7	93.8	75.8	65.8	63.8
60°	10857.7	3585.3	285.3	187.5	133.7	107.7	89.8	71.8	55.9	43.9	41.9
62.5°	12473.8	3930.5	241.4	157.6	105.7	81.8	63.8	53.9	39.9	27.9	25.9
65°	13188.1	3814.8	199.5	127.7	83.8	57.9	41.9	37.9	23.9	12.0	10.0
66°	12950.7	3643.2	183.6	115.7	75.8	49.9	35.9	31.9	18.0	6.0	6.0
67.5°	12250.3	3238.2	159.6	99.8	65.8	39.9	27.9	23.9	10.0	2.0	0.0
70°	10496.6	2619.7	125.7	73.8	47.9	27.9	16.0	12.0	6.0	0.0	0.0
72.5°	8062.5	1951.3	99.8	55.9	33.9	16.0	8.0	4.0	6.0	0.0	0.0
75°	4940.0	1115.3	77.8	41.9	21.9	10.0	6.0	0.0	6.0	2.0	0.0
77.5°	2192.7	500.8	51.9	27.9	16.0	8.0	4.0	0.0	4.0	2.0	0.0
80°	554.7	163.6	29.9	20.0	12.0	6.0	2.0	0.0	4.0	4.0	2.0
82.5°	151.6	59.9	21.9	16.0	10.0	6.0	2.0	0.0	4.0	4.0	4.0
85°	59.9	27.9	20.0	16.0	12.0	6.0	2.0	0.0	4.0	4.0	4.0
87.5°	27.9	20.0	20.0	18.0	14.0	6.0	2.0	0.0	4.0	2.0	4.0
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)