

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: P650974

Luminaire Tested: **GALN-SA6C-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650974
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-SA6C-840-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA 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: 29408.9 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

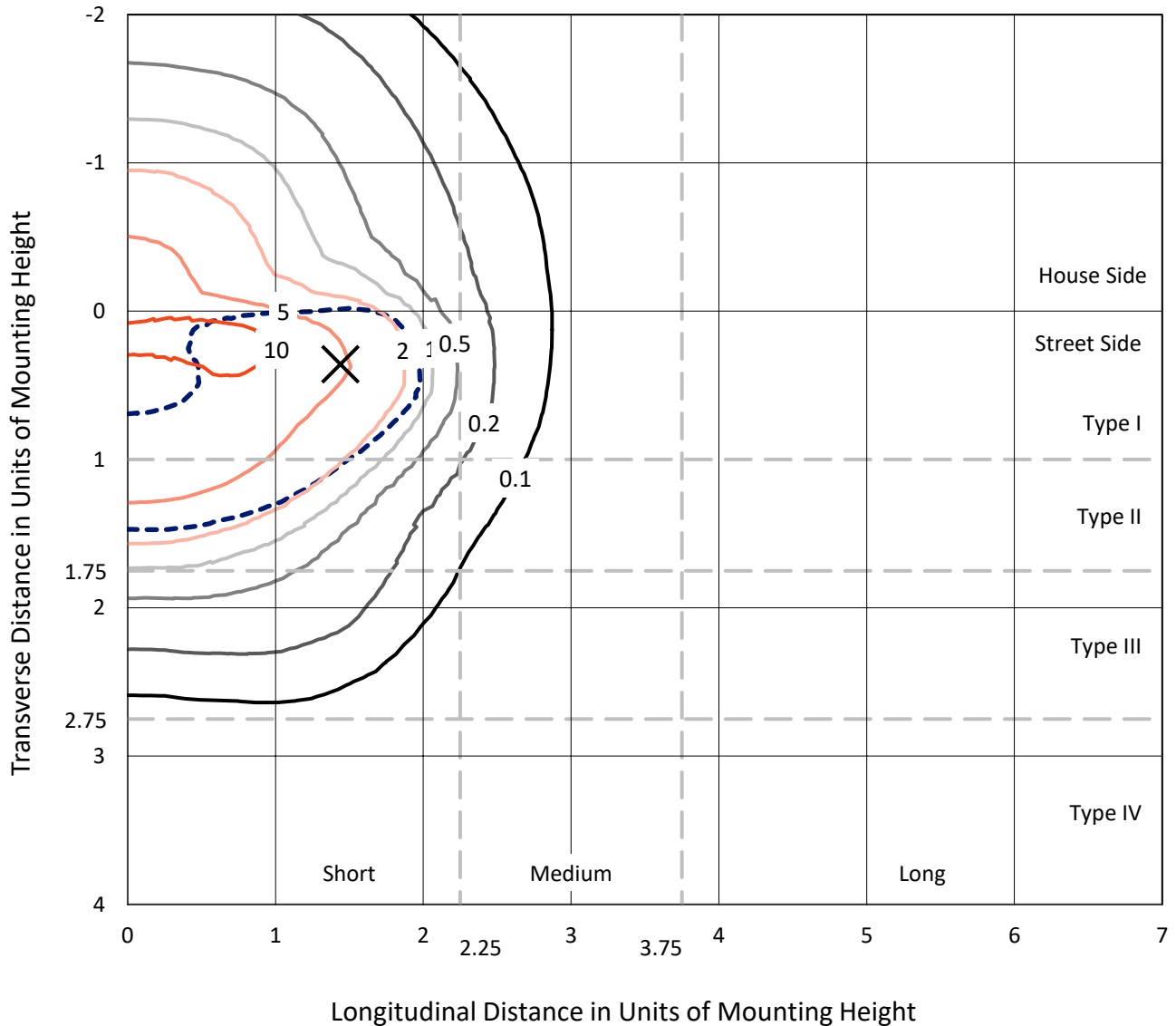
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650974
 CATALOG NUMBER: GALN-SA6C-840-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

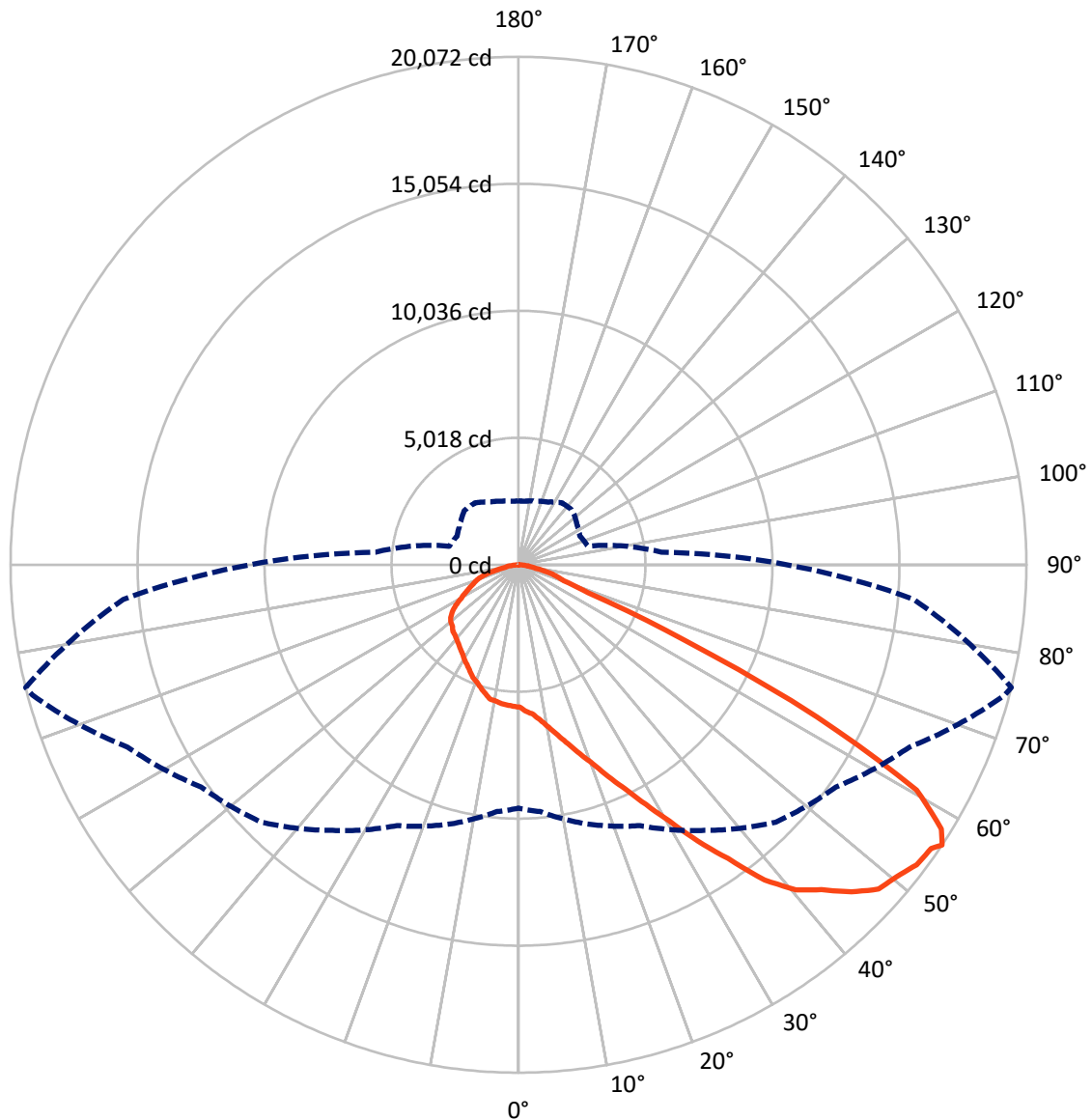
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - N/A

REPORT NUMBER: P650974
CATALOG NUMBER: GALN-SA6C-840-U-T2-GRSWH

Luminous Intensity Polar Plot



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

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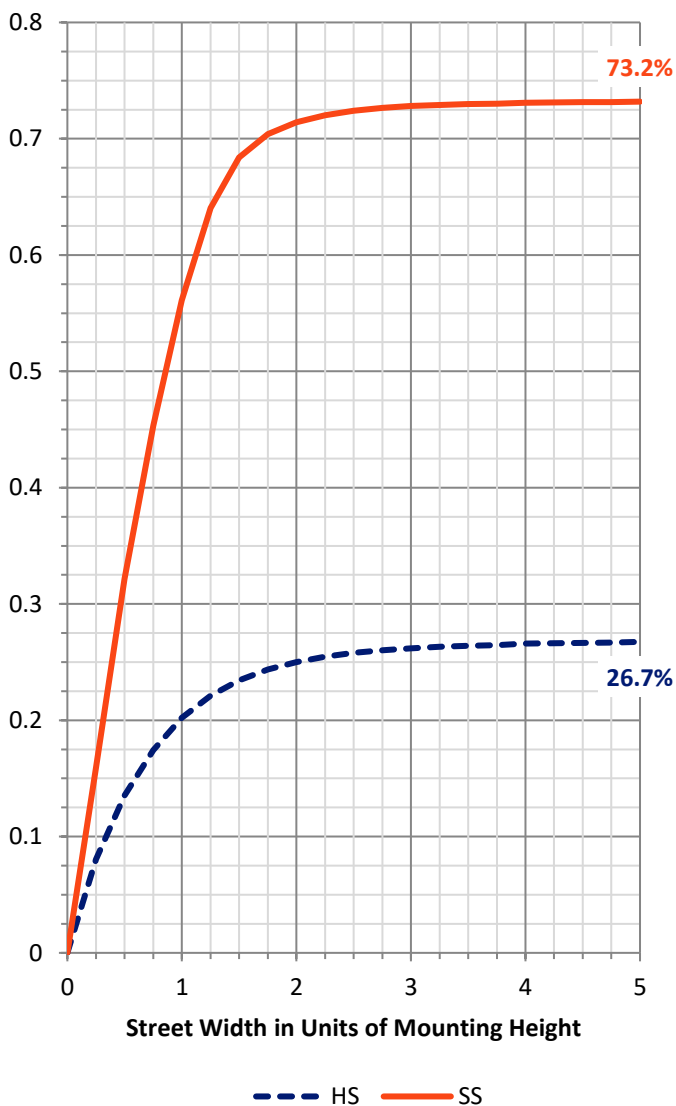
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7907.2	0.0	7907.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	21501.7	0.0	21501.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	29408.9	0.0	29408.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.0	1.9
10°-20°	1752.9	6.0
20°-30°	3065.7	10.4
30°-40°	4800.0	16.3
40°-50°	6982.6	23.7
50°-60°	7674.3	26.1
60°-70°	3425.5	11.6
70°-80°	989.4	3.4
80°-90°	160.5	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°	29408.9	100.0
0°-180°	29408.9	100.0

Coefficient of Utilization



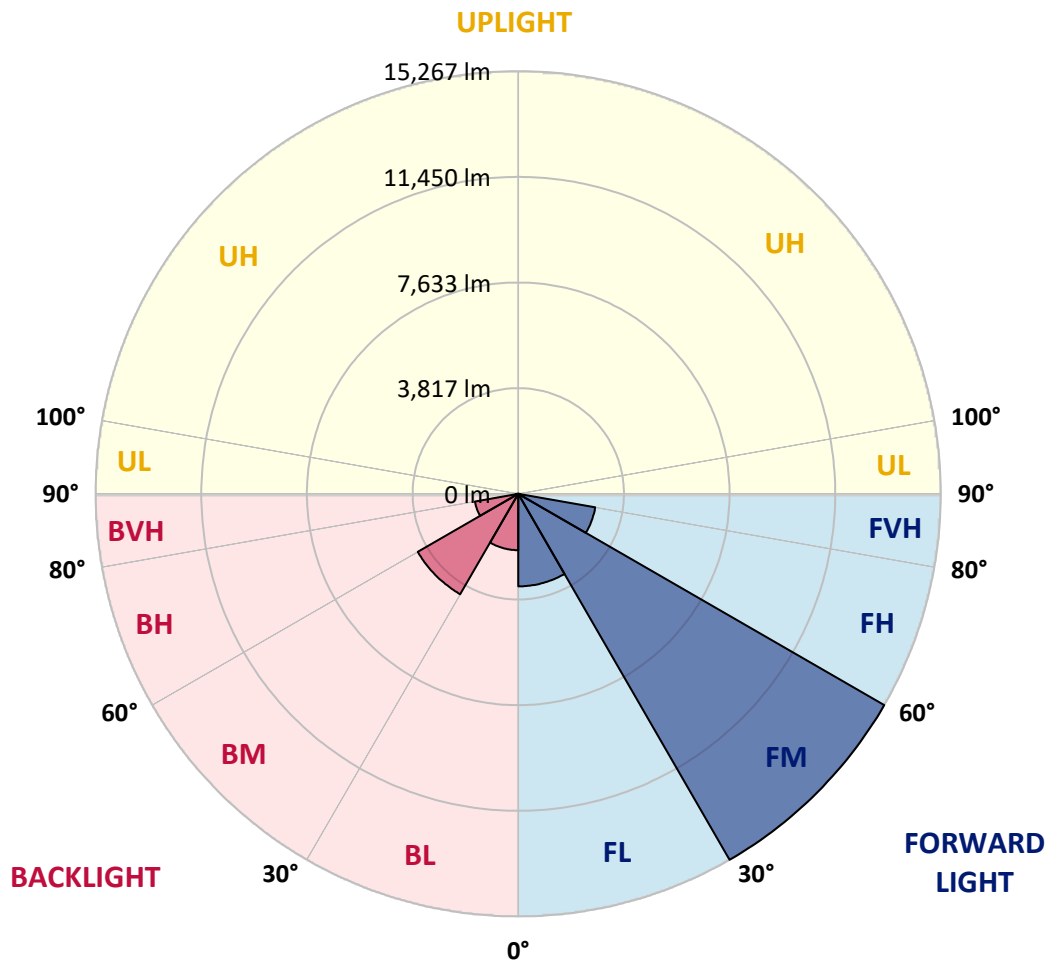
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 CATALOG NUMBER: GALN-SA6C-840-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3342.0	11.4			
FM (30°-60°)	15266.7	51.9			
FH (60°-80°)	2823.9	9.6			G2/5000
FVH (80°-90°)	69.1	0.2			G1/100
BL (0°-30°)	2034.7	6.9	B3/2500		
BM (30°-60°)	4190.2	14.2	B3/5000		
BH (60°-80°)	1590.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	91.4	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: P650974

CATALOG NUMBER: GALN-SA6C-840-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5627.0	5627.0	5627.0	5627.0	5627.0	5627.0	5627.0	5627.0	5627.0	5627.0	5627.0
2.5°	6198.8	6099.8	6092.1	6065.5	6080.7	6012.1	5939.6	5844.4	5745.2	5806.2	5661.4
5°	6633.5	6500.1	6553.4	6461.9	6473.3	6381.8	6233.2	6122.6	6000.6	5928.2	5825.3
7.5°	6785.9	6797.4	6835.6	6820.3	6744.1	6744.1	6644.9	6450.5	6237.0	6195.1	6023.5
10°	6991.8	6995.7	6953.7	6965.2	7071.9	7022.4	6934.6	6850.8	6576.3	6526.7	6221.7
12.5°	7064.3	6995.7	7064.3	7125.3	7251.1	7319.7	7300.6	7239.7	6946.1	6911.8	6465.8
15°	7075.8	7033.8	7091.0	7228.2	7338.7	7628.5	7773.4	7731.4	7342.6	7346.4	6740.2
17.5°	7022.4	7079.5	7102.4	7220.6	7476.0	7746.7	8166.0	8223.2	7903.0	7853.4	7087.1
20°	7094.8	7052.9	7083.3	7190.0	7529.4	7952.6	8501.5	8878.9	8429.1	8394.8	7445.5
22.5°	7373.0	7315.9	7308.3	7376.9	7620.9	8059.3	8856.1	9534.7	9069.6	9088.6	7891.5
25°	7590.4	7620.9	7594.2	7590.4	7742.8	8219.4	9325.0	10316.2	9938.8	9828.3	8417.7
27.5°	7964.0	8036.4	7983.0	8055.5	8021.2	8459.6	9660.5	11181.6	10876.7	10728.0	8894.2
30°	8482.5	8520.6	8471.1	8471.1	8368.1	8795.1	9965.4	12085.2	11959.4	11757.3	9454.6
32.5°	9164.9	9222.1	9122.9	9065.7	9050.5	9294.5	10514.4	12977.2	13190.7	13019.2	10198.1
35°	10068.4	10034.1	9915.9	9862.6	9656.7	10060.8	11330.3	14002.7	14563.2	14258.1	11097.8
37.5°	10865.2	10811.8	10804.2	10506.8	10556.4	10888.1	12024.1	14780.5	15893.6	15806.0	12047.0
40°	11608.6	11658.1	11738.2	11570.5	11494.2	11860.2	12832.3	15375.2	16926.8	16892.5	12779.0
42.5°	12405.3	12359.6	12500.7	12359.6	12245.2	12763.7	13709.2	15786.9	17834.2	17552.0	13545.2
45°	13560.5	13415.6	13465.2	13476.6	13392.8	13583.4	14071.4	16084.3	18470.8	18440.3	14105.7
47.5°	14525.0	14528.9	14445.0	14380.2	14124.8	14315.3	14475.5	16271.1	19202.8	19153.2	14323.0
50°	14883.4	14833.8	15077.8	15218.9	15234.1	14845.2	14791.9	16374.0	19587.8	19370.5	14540.3
52.5°	13594.8	13640.6	14025.6	14864.3	15348.5	15390.5	15161.7	16587.5	19744.2	19698.4	14715.6
55°	10941.4	11162.5	11795.4	12763.7	13911.2	15173.2	15562.0	16808.6	19828.0	19789.9	15493.4
56°	9618.5	9790.1	10613.6	11372.3	12813.3	14384.0	15310.4	17045.0	19892.8	20072.0	15676.3
57.5°	7742.8	7941.1	8532.0	9393.6	11093.9	12881.9	14616.5	16755.2	19641.2	19709.8	15809.8
60°	4841.6	4860.7	5569.9	6137.9	7334.9	9081.0	11154.9	14578.4	18177.3	18078.1	14201.0
62.5°	3175.7	3179.5	3823.8	4288.8	4834.1	5234.4	6564.8	9668.1	13411.8	13236.5	10110.3
65°	2230.2	2279.8	2779.2	3400.6	3621.8	3412.0	3370.1	5097.1	7491.3	7239.7	5432.6
67.5°	1631.7	1635.5	2077.7	2744.9	3065.1	2596.2	2108.2	2489.4	2966.0	2958.4	2516.2
70°	1078.9	1124.7	1463.9	2051.0	2417.0	2085.3	1723.2	1780.4	1887.1	1887.1	1871.9
72.5°	629.1	670.9	895.9	1300.0	1357.2	1303.8	1364.9	1524.9	1593.5	1589.7	1570.7
75°	358.4	377.4	427.0	541.4	674.8	796.8	1002.6	1155.1	1223.7	1265.7	1216.2
77.5°	209.7	221.1	251.6	308.8	350.7	430.8	545.1	651.9	743.4	732.0	739.6
80°	110.6	110.6	141.0	183.0	244.0	304.9	362.1	423.2	472.7	484.2	495.6
82.5°	64.8	68.6	91.5	133.5	175.3	217.3	278.3	320.3	366.0	369.8	377.4
85°	34.3	38.1	57.2	87.7	118.2	133.5	137.3	129.6	141.0	133.5	152.5
87.5°	11.4	11.4	19.1	15.2	15.2	19.1	22.9	22.9	30.5	30.5	30.5
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°	5627.0	5627.0	5627.0	5627.0	5627.0	5627.0	5627.0	5627.0	5627.0	5627.0	5627.0
2.5°	5657.5	5657.5	5592.7	5470.7	5451.6	5402.1	5356.3	5352.5	5318.2	5287.7	5272.5
5°	5764.3	5646.1	5550.8	5440.2	5310.6	5249.6	5181.0	5104.7	5074.3	5104.7	5100.9
7.5°	5886.2	5787.2	5501.2	5295.4	5146.7	5085.7	5009.4	4929.4	4937.0	4937.0	4883.6
10°	6004.4	5871.0	5413.5	5150.5	4933.1	4887.4	4845.5	4875.9	4914.1	4921.7	4887.4
12.5°	6202.7	5901.5	5371.6	5005.6	4868.4	4769.2	4796.0	4879.8	4959.9	4937.0	4963.7
15°	6351.4	5928.2	5181.0	4856.9	4685.4	4731.1	4826.4	4883.6	5017.1	5001.8	5028.5
17.5°	6496.2	5943.4	4994.2	4658.7	4586.2	4712.0	4784.5	4948.4	4990.3	5081.8	5116.1
20°	6793.6	5974.0	4803.5	4536.7	4513.8	4658.7	4784.5	4860.7	4952.2	5032.3	5032.3
22.5°	6946.1	5958.7	4677.7	4376.6	4449.0	4540.5	4654.9	4784.5	4784.5	4860.7	4864.5
25°	7136.7	5897.7	4479.5	4300.3	4353.7	4441.4	4571.0	4525.3	4574.8	4574.8	4635.8
27.5°	7354.0	5768.1	4307.9	4163.1	4269.8	4365.1	4384.2	4353.7	4296.5	4288.8	4266.0
30°	7529.4	5608.0	4182.1	4117.4	4205.0	4258.4	4197.4	4132.6	4033.4	4025.9	3972.5
32.5°	7769.6	5409.7	4025.9	4003.0	4102.1	4105.9	4086.8	3987.7	3842.9	3781.8	3720.8
35°	8173.7	5295.4	3907.6	3941.9	3972.5	3961.0	3926.7	3820.0	3675.1	3648.4	3625.6
37.5°	8471.1	5211.5	3785.7	3827.6	3854.3	3869.5	3766.6	3648.4	3652.2	3598.9	3583.6
40°	8806.5	5158.1	3686.5	3705.6	3709.4	3758.9	3633.2	3576.0	3602.7	3568.4	3591.2
42.5°	9237.3	5173.3	3583.6	3568.4	3640.8	3621.8	3560.7	3484.5	3499.7	3396.8	3412.0
45°	9466.0	5276.3	3522.6	3454.0	3534.1	3530.3	3450.2	3377.7	3286.2	3088.0	3095.6
47.5°	9618.5	5303.0	3377.7	3332.0	3415.9	3465.4	3373.9	3206.1	3076.5	2935.5	2901.2
50°	9774.9	5352.5	3309.1	3213.8	3248.1	3366.3	3251.9	3091.9	2966.0	2840.2	2859.2
52.5°	9912.1	5447.8	3175.7	3034.7	3095.6	3225.2	3164.3	2969.8	2832.6	2729.6	2699.1
55°	10522.1	5661.4	2950.7	2767.7	2912.6	3076.5	3042.2	2805.9	2657.2	2603.8	2596.2
56°	10617.4	5668.9	2832.6	2676.2	2809.7	3027.0	2985.0	2733.4	2600.0	2516.2	2520.0
57.5°	10632.6	5577.4	2664.8	2592.4	2706.8	2954.6	2901.2	2676.2	2493.3	2417.0	2394.2
60°	9355.5	4353.7	2455.1	2409.4	2542.8	2733.4	2714.4	2520.0	2314.1	2226.4	2268.3
62.5°	6378.1	3190.9	2291.2	2283.6	2352.2	2539.1	2489.4	2314.1	2142.5	2085.3	2058.7
65°	3713.2	2420.8	2131.1	2100.6	2157.8	2256.9	2291.2	2108.2	1929.1	1890.9	1879.5
67.5°	2192.1	2001.5	1925.2	1875.7	1856.6	1917.6	1944.3	1837.6	1658.4	1605.0	1650.7
70°	1833.7	1780.4	1784.2	1700.3	1654.6	1612.6	1589.7	1494.5	1345.8	1277.1	1258.1
72.5°	1582.1	1559.2	1544.0	1467.7	1425.8	1330.5	1231.4	1136.1	1025.5	968.3	972.1
75°	1208.5	1200.9	1208.5	1170.4	1097.9	1021.7	930.2	808.2	724.4	651.9	667.2
77.5°	720.6	743.4	754.9	739.6	709.1	640.5	583.3	503.3	423.2	366.0	358.4
80°	495.6	514.7	533.7	514.7	484.2	434.6	373.6	312.6	255.4	225.0	217.3
82.5°	377.4	396.4	407.9	388.9	350.7	297.4	255.4	213.5	167.8	137.3	129.6
85°	137.3	156.3	152.5	183.0	198.2	190.7	163.9	125.8	95.3	68.6	64.8
87.5°	38.1	34.3	38.1	38.1	38.1	34.3	30.5	30.5	30.5	19.1	15.2
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)