

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: STREETWORKS

Report Number: P649639

Luminaire Tested: **GLAN-SA9D-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P649639  
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: STREETWORKS  
Catalog Number: GLAN-SA9D-835-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1200mA 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: 46455.4 lumens  
Efficiency: N/A  
Efficacy: 84.2 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

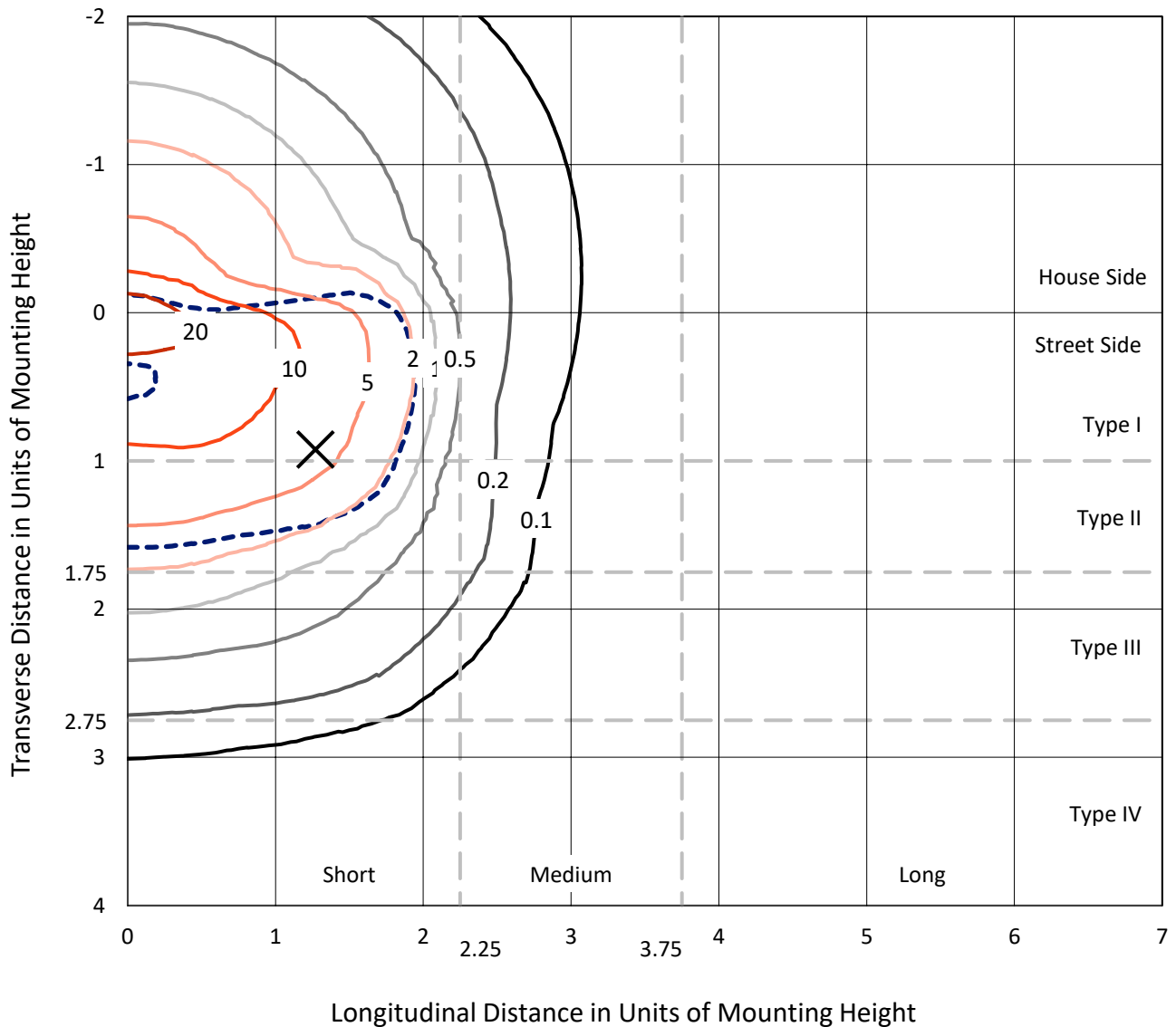
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

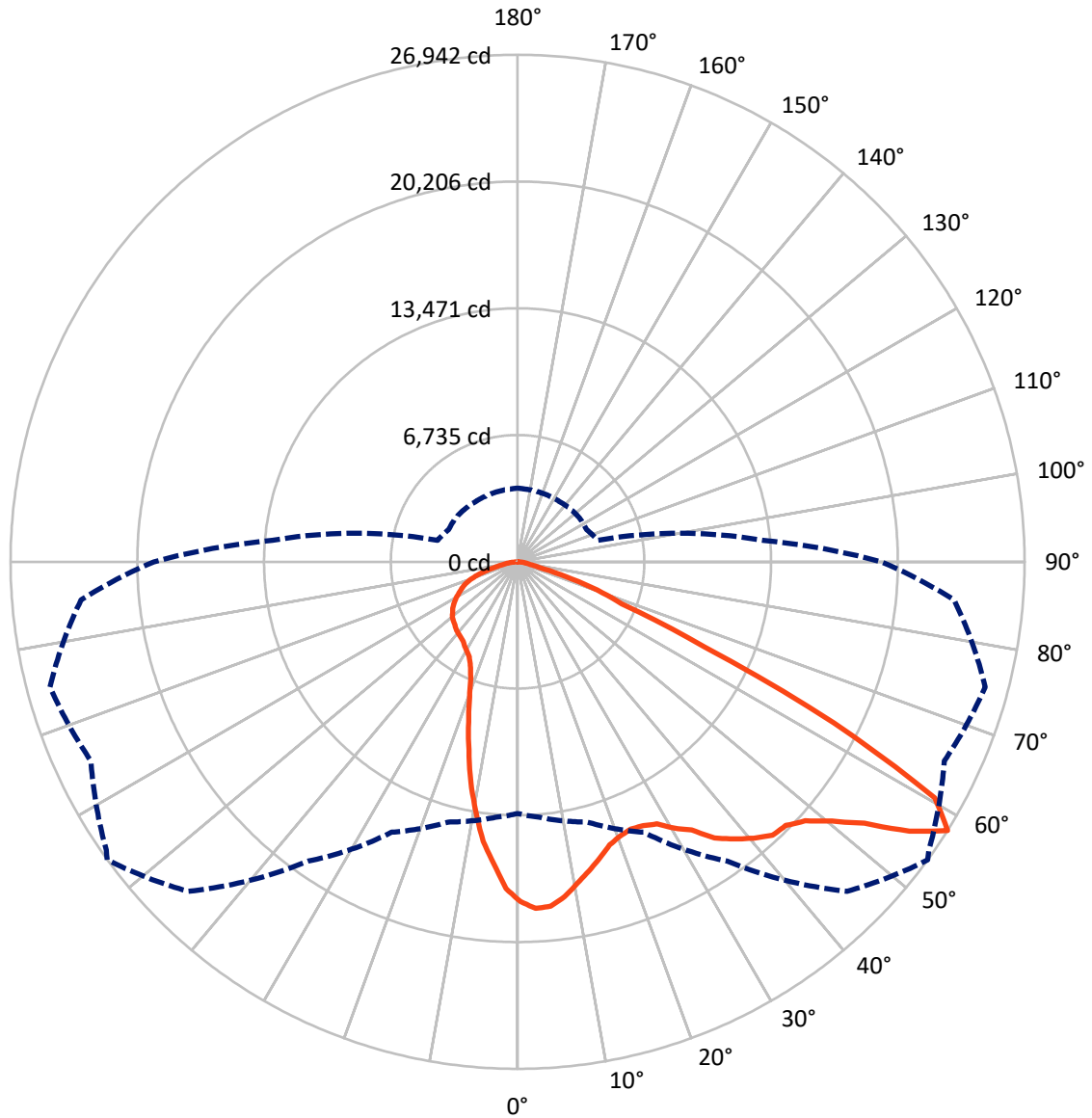
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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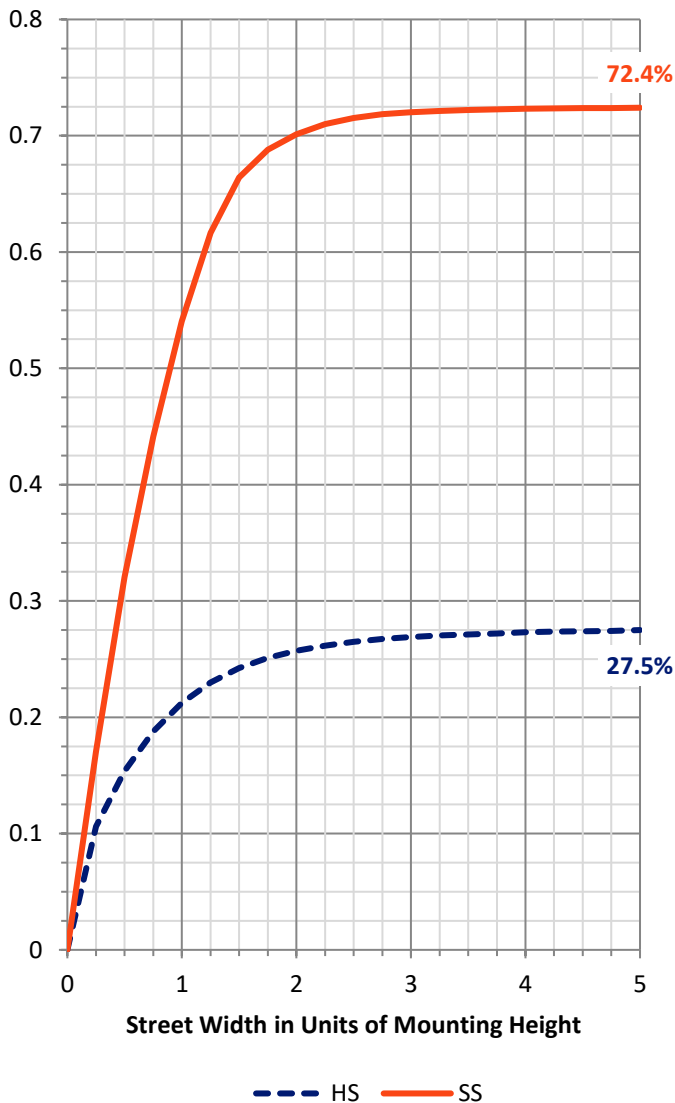
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12852.1	0.0	12852.1
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	33603.2	0.0	33603.2
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	46455.4	0.0	46455.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1557.2	3.4
10°-20°	3605.5	7.8
20°-30°	5065.8	10.9
30°-40°	7082.0	15.2
40°-50°	9587.7	20.6
50°-60°	11678.3	25.1
60°-70°	6082.5	13.1
70°-80°	1558.6	3.4
80°-90°	237.8	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°	46455.4	100.0
0°-180°	46455.4	100.0

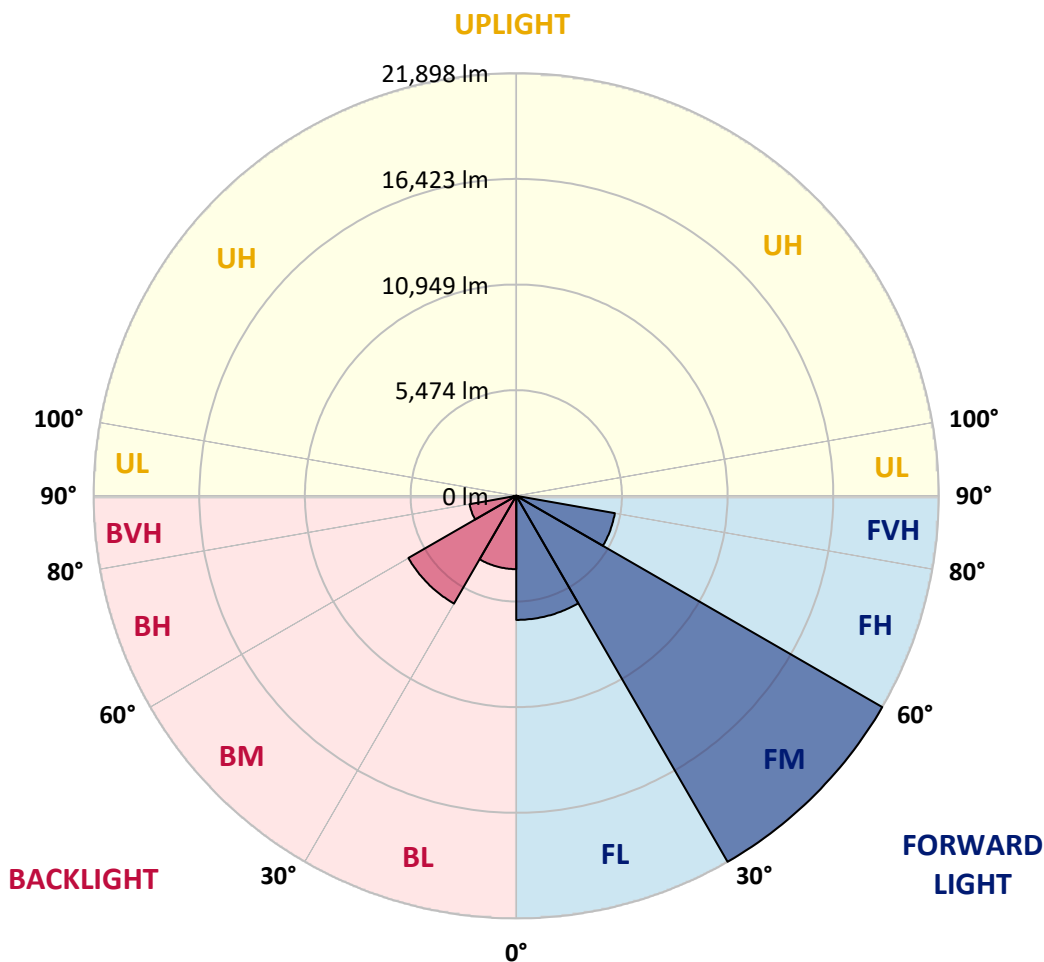


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6430.1	13.8			
FM (30°-60°)	21897.6	47.1			
FH (60°-80°)	5185.7	11.2			G3/7500
FVH (80°-90°)	89.8	0.2			G1/100
BL (0°-30°)	3798.5	8.2	B4/5000		
BM (30°-60°)	6450.4	13.9	B4/8500		
BH (60°-80°)	2455.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	147.9	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°	18056.7	18056.7	18056.7	18056.7	18056.7	18056.7	18056.7	18056.7	18056.7	18056.7	18056.7
2.5°	18570.2	18498.5	18510.5	18606.0	18486.6	18438.9	18438.9	18205.9	18223.9	18062.6	18020.8
5°	18140.3	17973.1	18086.5	18229.8	18253.7	18301.5	18379.1	18319.4	18152.2	17979.1	17698.4
7.5°	17017.7	17167.0	17208.8	17310.3	17525.3	17722.3	17967.1	17799.9	17793.9	17620.8	17453.6
10°	16032.5	15942.9	16169.8	16319.1	16677.4	17005.7	17382.0	17364.0	17453.6	17256.5	16970.0
12.5°	15053.2	14981.5	15089.0	15429.4	15931.0	16408.6	16856.5	16689.3	17167.0	17131.2	16516.1
15°	14014.2	14068.0	14223.2	14539.7	15196.5	15769.8	16337.0	16342.9	16766.9	16910.2	16086.2
17.5°	13285.8	13226.0	13423.0	13894.8	14479.9	15166.6	15811.5	15942.9	16593.7	16677.4	15954.9
20°	12742.4	12826.0	13082.8	13321.6	13996.3	14826.3	15554.8	15602.5	16557.9	16784.9	15745.8
22.5°	12611.0	12563.2	12646.9	13035.0	13590.3	14491.9	15417.4	15596.6	16552.0	16749.0	15351.7
25°	12473.7	12628.9	12623.0	13011.1	13417.1	14223.2	15530.9	15728.0	16868.4	16934.1	15405.5
27.5°	12784.2	12766.3	12933.4	12963.3	13464.9	14294.8	15769.8	15919.0	17393.9	17340.2	15447.3
30°	13094.7	13005.1	13106.6	13458.9	13691.8	14706.9	16426.6	16414.7	18074.6	18038.8	15578.6
32.5°	13476.8	13435.0	13500.7	13811.2	14205.3	15256.2	16981.9	17334.2	18767.3	18994.2	16032.5
35°	13548.5	13721.6	13876.9	14294.8	14856.2	16145.9	18026.9	18319.4	19567.4	20277.9	16898.3
37.5°	14002.3	14068.0	14432.2	15172.7	15686.2	17334.2	18689.6	18874.7	20295.8	21101.9	17811.8
40°	14486.0	14563.6	15112.9	15889.2	16593.7	18110.4	19310.6	19370.3	20528.7	21734.9	18409.0
42.5°	15142.8	15214.4	15757.8	16731.1	17674.5	18773.2	19859.9	19925.6	20510.8	22463.3	19358.3
45°	15823.5	15996.6	16635.5	17740.2	18588.1	19549.5	19985.4	20254.0	20678.0	23114.2	20128.7
47.5°	16778.8	16940.0	17465.5	18546.3	19537.5	20230.1	20564.6	20827.3	21078.0	23681.4	20624.3
50°	17793.9	17823.8	18462.7	19442.0	20170.5	21000.5	21645.3	21734.9	21603.5	24338.3	21466.2
52.5°	18540.3	18635.9	19131.5	20086.8	21173.6	22194.7	23078.4	23173.9	22917.2	24583.1	21752.8
55°	17304.3	17250.6	18056.7	19328.5	21848.4	23974.1	25257.9	25329.5	23872.6	25341.5	22690.2
57.5°	13375.3	13632.1	14318.7	15853.3	19412.1	24762.2	26941.7	26685.0	25019.0	25723.6	23287.4
60°	9721.0	9661.3	10121.1	11148.1	14629.3	21340.8	25472.8	25735.6	24081.6	23185.9	19203.2
62.5°	7917.7	7834.1	7869.9	7905.8	9440.3	14163.5	18856.8	18850.8	18546.3	16665.4	12951.4
65°	6329.4	6526.5	6544.3	6813.0	7010.1	8461.1	10927.2	11512.3	10025.5	8222.2	5965.1
67.5°	4770.9	4699.3	4938.1	5893.5	6263.7	6108.5	5965.1	6030.8	4287.2	3093.0	2913.9
70°	2812.4	2782.5	3069.1	4108.2	5159.0	4854.5	4496.2	4502.2	2943.8	2161.5	2406.4
72.5°	1540.6	1534.6	1594.3	2084.0	2931.8	3045.2	2698.9	2782.5	1755.5	1749.5	1880.9
75°	859.8	842.0	824.0	919.6	1056.9	1116.6	1140.5	1152.4	1206.1	1349.5	1403.2
77.5°	316.5	304.5	304.5	352.3	447.8	561.3	710.6	722.5	853.9	979.3	1033.0
80°	107.5	119.4	161.2	221.0	298.6	400.0	483.7	495.6	603.1	686.7	704.6
82.5°	65.7	71.6	107.5	155.3	214.9	280.6	358.3	364.3	447.8	501.6	525.5
85°	29.8	35.9	59.7	95.5	137.3	185.1	191.1	191.1	185.1	191.1	179.2
87.5°	0.0	0.0	12.0	12.0	12.0	17.9	23.9	17.9	29.8	35.9	35.9
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°	18056.7	18056.7	18056.7	18056.7	18056.7	18056.7	18056.7	18056.7	18056.7	18056.7	18056.7
2.5°	17895.5	17829.8	17626.7	17447.6	17393.9	17155.1	16802.7	16844.5	16587.8	16707.2	16581.8
5°	17650.6	17429.7	16910.2	16689.3	16110.1	15847.4	15668.2	15220.4	15011.4	14969.6	14790.5
7.5°	17023.7	16886.3	16235.5	15638.4	15023.3	14497.9	13823.2	13363.4	13035.0	12945.4	12682.6
10°	16528.0	16223.5	15321.9	14414.3	13536.5	12623.0	11745.2	11058.5	10724.1	10336.0	10204.7
12.5°	16038.4	15578.6	14360.5	13196.2	12061.6	10909.2	9846.4	9010.5	8281.9	8108.7	8049.1
15°	15733.9	14933.8	13500.7	12097.5	10485.3	8980.5	7917.7	7368.3	6920.5	6735.4	6866.8
17.5°	15333.9	14402.3	12676.7	10807.7	9034.3	7649.0	6759.3	6419.0	6257.7	6275.7	6221.9
20°	14832.3	13900.8	11595.9	9637.4	7738.5	6633.9	6126.3	6001.0	6024.9	6066.7	6048.8
22.5°	14474.0	13291.7	10813.7	8443.2	6687.7	6072.6	5863.7	5774.1	5851.7	5887.5	5857.7
25°	14199.3	12772.2	9864.3	7386.3	6078.6	5756.1	5660.6	5654.7	5774.1	5821.8	5792.0
27.5°	13948.5	12288.6	8920.9	6580.2	5672.6	5511.4	5481.5	5553.1	5630.8	5678.6	5720.4
30°	13799.3	11918.4	8037.1	5905.5	5469.6	5391.9	5338.2	5403.9	5445.7	5493.4	5469.6
32.5°	13942.6	11655.7	7183.2	5523.3	5302.3	5224.7	5296.4	5254.6	5326.3	5368.0	5302.3
35°	14390.4	11422.8	6574.2	5320.3	5111.3	5141.1	5153.1	5135.1	5165.1	5129.2	5206.8
37.5°	14832.3	11339.2	6012.9	5147.1	5021.7	5021.7	5009.8	4973.9	5033.7	5021.7	5057.6
40°	15393.5	11392.9	5535.3	4962.0	4938.1	4926.2	4878.4	4872.5	4848.6	4854.5	4866.5
42.5°	15883.2	11512.3	5260.6	4842.6	4860.5	4884.4	4794.8	4723.1	4753.0	4693.3	4693.3
45°	16402.7	11619.8	5015.7	4759.0	4741.1	4735.1	4663.5	4621.7	4597.8	4603.7	4657.4
47.5°	17220.8	11775.1	4830.6	4645.5	4657.4	4567.9	4550.0	4496.2	4520.1	4556.0	4561.9
50°	17799.9	12103.5	4687.4	4514.2	4556.0	4496.2	4388.8	4364.9	4364.9	4424.6	4412.7
52.5°	18205.9	12563.2	4550.0	4370.9	4388.8	4341.0	4305.2	4251.5	4215.6	4299.2	4341.0
55°	19447.9	13327.5	4514.2	4251.5	4245.5	4197.7	4132.0	4078.3	4060.4	4072.3	4155.9
57.5°	19328.5	13088.7	4400.7	4042.5	4030.5	3964.8	3899.1	3881.3	3875.2	3887.2	3911.1
60°	15692.1	9667.2	3929.0	3803.6	3785.7	3773.7	3708.1	3636.4	3600.6	3636.4	3606.6
62.5°	10383.8	6472.7	3463.3	3517.0	3528.9	3499.1	3391.6	3319.9	3331.9	3373.7	3308.0
65°	5099.4	3803.6	3140.8	3284.1	3296.0	3212.5	3110.9	3027.4	2985.6	3021.4	2991.5
67.5°	2913.9	2907.9	2878.1	3027.4	3021.4	2937.8	2776.6	2705.0	2633.2	2645.2	2627.3
70°	2472.0	2519.9	2579.5	2669.1	2663.1	2567.6	2376.5	2322.8	2221.3	2209.3	2179.5
72.5°	1946.6	2030.2	2161.5	2227.2	2173.5	2054.0	1928.7	1839.1	1749.5	1695.8	1713.7
75°	1445.0	1564.4	1636.1	1677.9	1594.3	1528.6	1427.1	1319.6	1212.2	1164.4	1146.5
77.5°	1050.9	1086.7	1152.4	1182.3	1128.5	1062.8	1003.2	895.7	794.2	728.5	710.6
80°	734.5	758.3	806.1	806.1	806.1	776.3	698.6	591.2	525.5	465.7	453.8
82.5°	513.5	537.4	585.1	561.3	555.3	519.5	471.8	388.1	316.5	274.7	262.7
85°	179.2	197.1	238.8	286.6	304.5	298.6	268.7	214.9	167.2	137.3	125.4
87.5°	41.8	41.8	47.8	41.8	41.8	47.8	41.8	41.8	41.8	29.8	23.9
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)