

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: P649555

Luminaire Tested: **GLAN-SA7D-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P649555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36829.2 lumens
Efficiency: N/A
Efficacy: 85.1 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

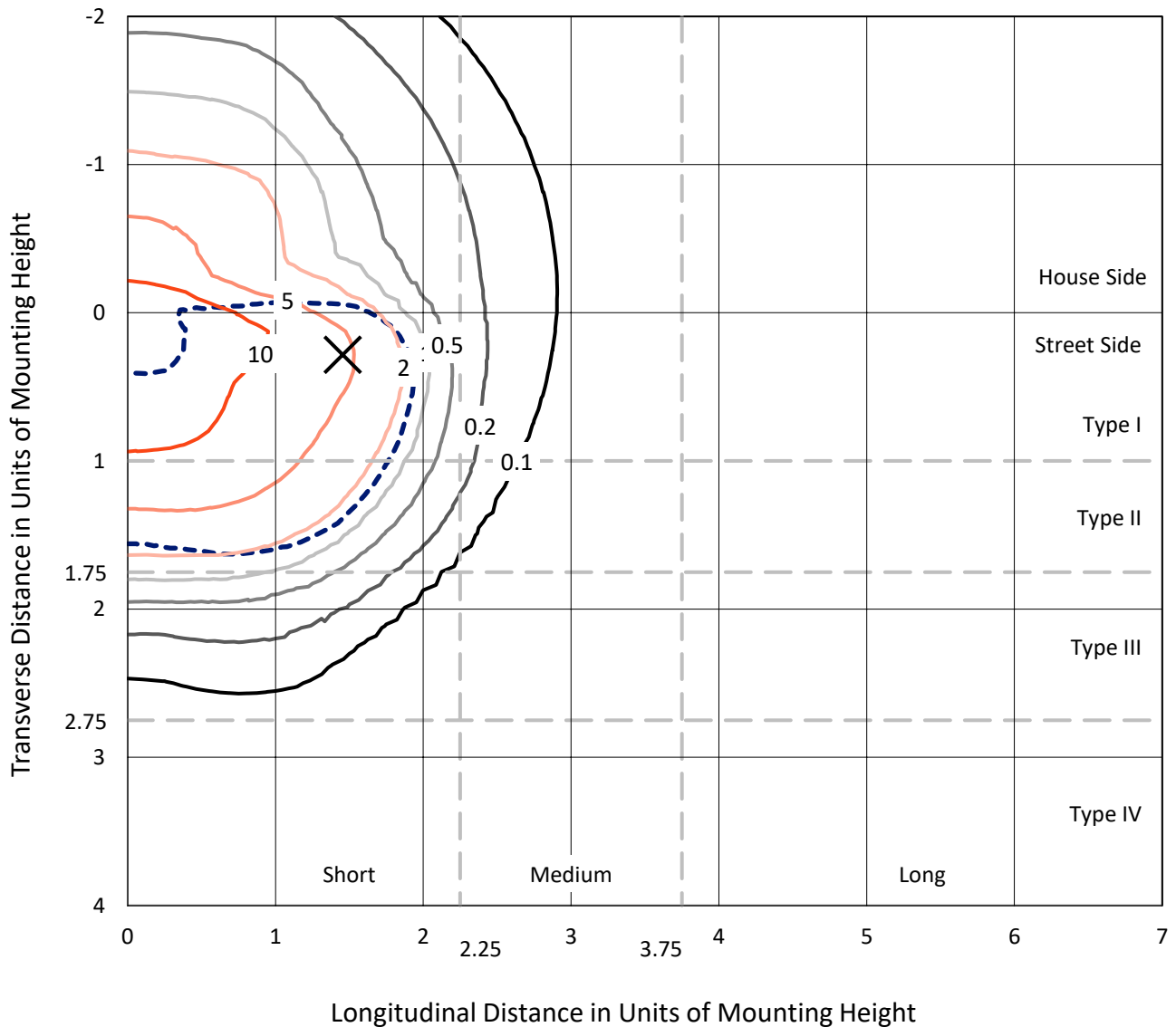
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

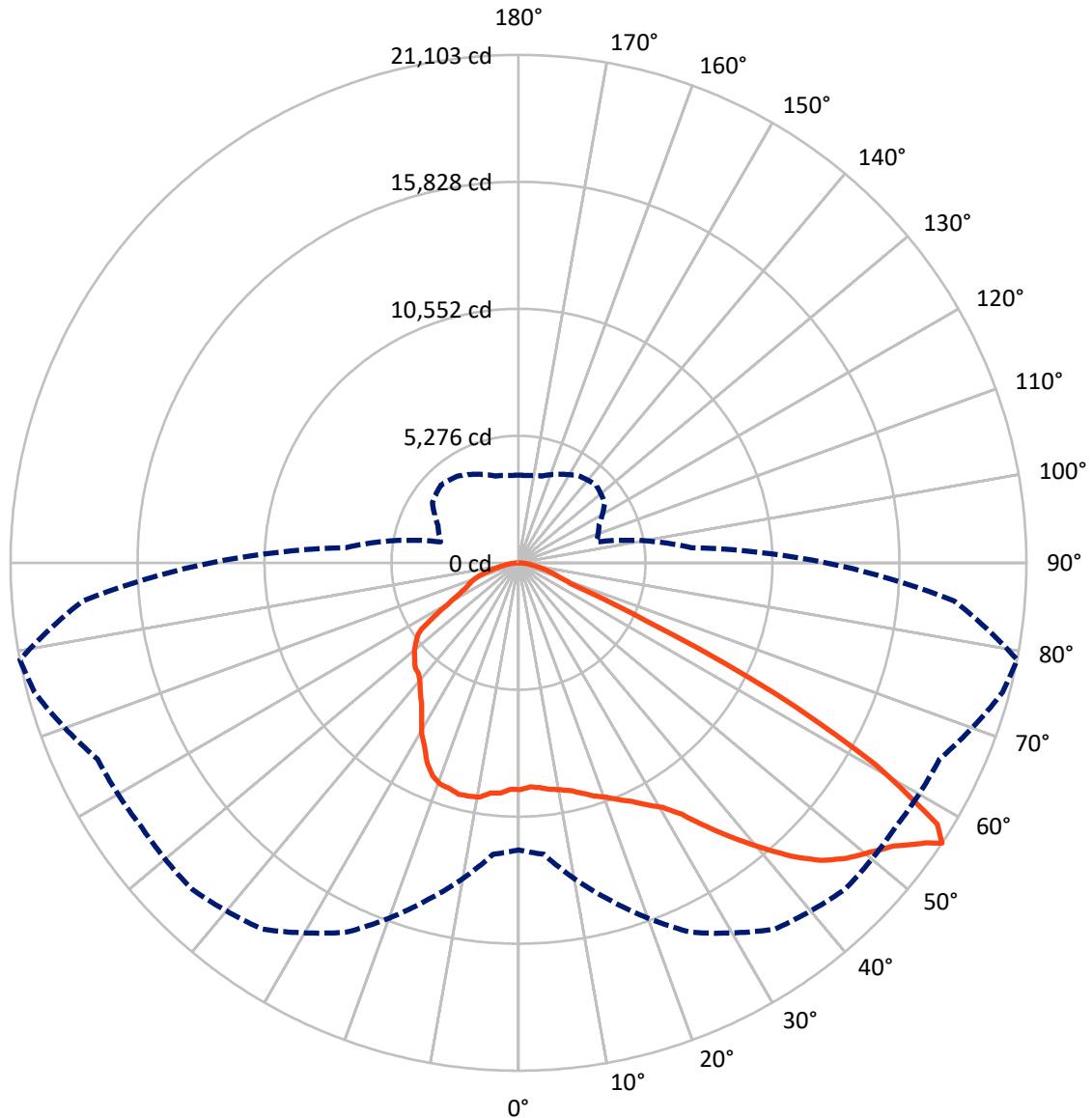
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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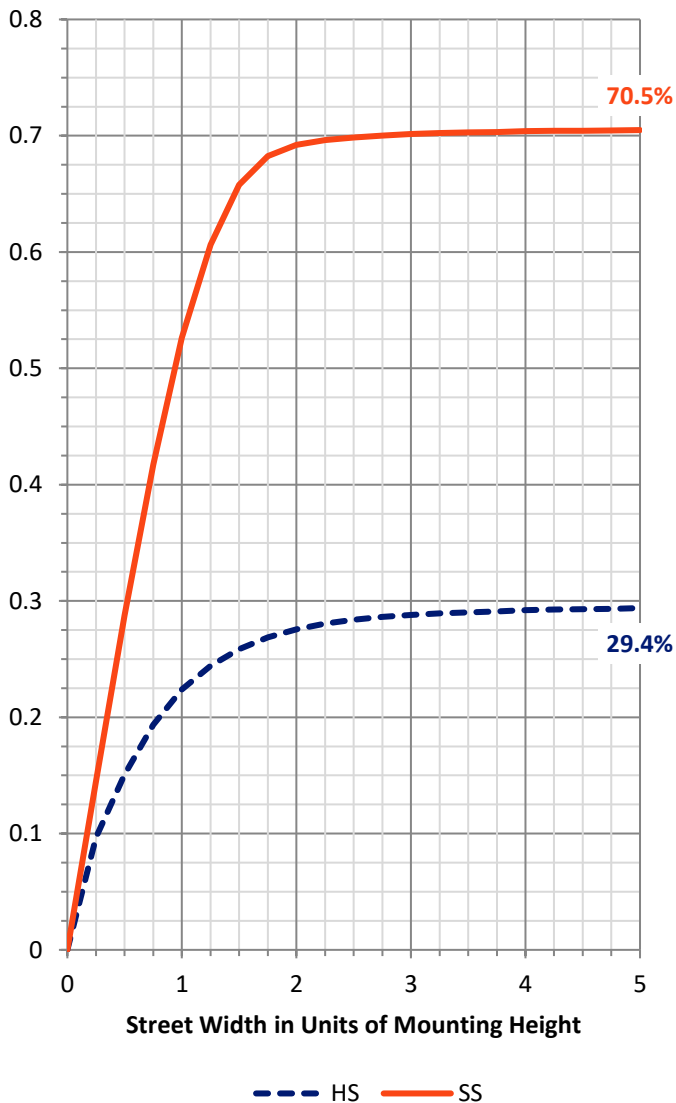
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10876.5	0.0	10876.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	25952.7	0.0	25952.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	36829.2	0.0	36829.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	856.7	2.3
10°-20°	2344.7	6.4
20°-30°	4011.3	10.9
30°-40°	6147.8	16.7
40°-50°	8308.7	22.6
50°-60°	9542.8	25.9
60°-70°	4349.9	11.8
70°-80°	1072.5	2.9
80°-90°	194.9	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°	36829.2	100.0
0°-180°	36829.2	100.0



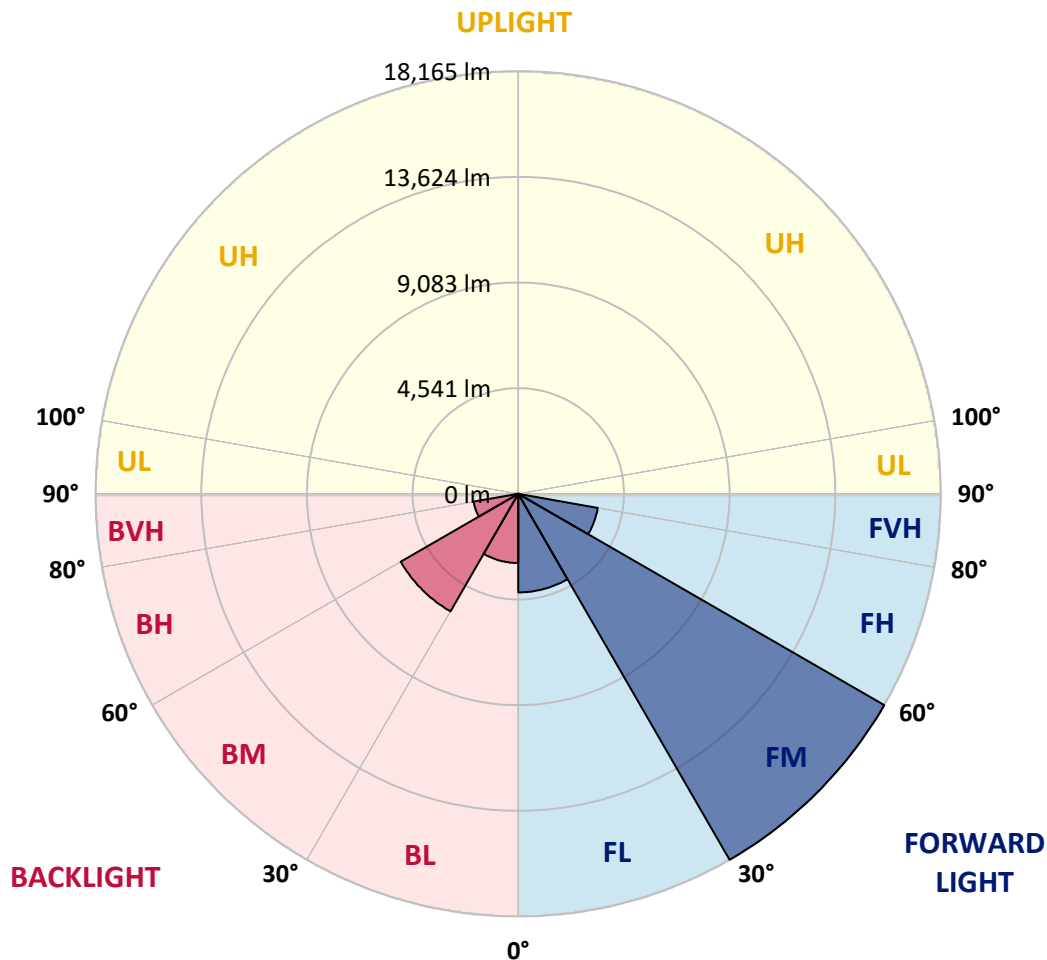
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4237.5	11.5			
FM (30°-60°)	18165.2	49.3			
FH (60°-80°)	3472.2	9.4			G2/5000
FVH (80°-90°)	77.8	0.2			G1/100
BL (0°-30°)	2975.2	8.1	B4/5000		
BM (30°-60°)	5834.0	15.8	B4/8500		
BH (60°-80°)	1950.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	117.1	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°	55°	65°	75°	79°	85°
0°	9423.1	9423.1	9423.1	9423.1	9423.1	9423.1	9423.1	9423.1	9423.1	9423.1	9423.1
2.5°	8964.3	8941.4	8996.5	9037.8	9088.2	9152.5	9184.6	9202.9	9363.5	9322.2	9446.0
5°	8771.7	8712.0	8753.3	8785.4	8872.6	8950.6	9037.8	9175.4	9322.2	9386.4	9537.8
7.5°	8602.0	8569.9	8560.6	8583.6	8702.9	8803.8	8955.2	9157.0	9395.6	9501.2	9588.3
10°	8322.1	8276.2	8345.1	8496.4	8528.5	8739.5	8913.9	9202.9	9409.4	9592.8	9849.7
12.5°	8198.2	8152.4	8166.1	8253.3	8478.1	8679.9	8886.3	9212.1	9647.9	9721.3	10065.4
15°	8395.5	8349.6	8363.4	8340.4	8556.1	8661.5	8987.3	9395.6	9813.1	9937.0	10304.0
17.5°	8845.1	8849.7	8790.0	8739.5	8689.1	8913.9	9138.7	9505.7	9877.3	10189.3	10464.6
20°	9703.0	9551.6	9432.3	9147.9	9069.9	9166.2	9450.7	9803.9	10138.8	10395.7	10707.7
22.5°	10363.6	10377.3	10207.7	9739.7	9569.9	9611.2	9854.4	10143.4	10510.4	10693.9	11051.7
25°	11322.4	11226.1	11042.6	10671.0	10290.2	10322.3	10501.2	10762.7	10863.7	10992.1	11382.1
27.5°	12198.7	12226.2	11863.8	11515.1	11042.6	10950.8	11272.0	11317.9	11148.1	11391.2	11524.3
30°	13088.7	13065.8	12827.2	12418.9	11955.5	11973.9	12116.1	11891.3	11657.3	11790.4	11882.1
32.5°	14010.8	13749.3	13740.2	13373.2	13019.9	12850.1	12675.8	12785.9	12423.5	12451.0	12363.9
35°	14749.4	14786.2	14575.2	14313.6	14139.3	13841.1	13363.9	13561.2	13492.4	13460.3	13084.1
37.5°	15286.2	15144.0	15249.5	15162.3	14997.2	14625.6	14130.1	14318.2	14350.4	14506.3	14070.4
40°	15726.6	15667.0	15946.8	15992.7	15878.0	15075.2	14185.1	14744.8	15226.5	15566.0	15047.6
42.5°	15937.7	16066.1	16359.8	16713.0	16456.1	15598.1	14469.6	15070.6	16144.1	16680.9	15974.4
45°	16222.1	16056.9	16492.8	17139.6	17144.3	16038.6	14744.8	15511.0	16859.8	17639.7	16607.4
47.5°	15933.1	16015.6	16465.2	17286.4	17497.5	16502.0	15488.1	16135.0	17648.9	18341.6	17194.7
50°	15286.2	15451.3	16272.5	17125.9	17763.5	16992.8	16341.4	16809.3	18378.3	18905.9	17291.1
52.5°	14611.8	14703.6	15988.2	17249.7	17882.9	17626.0	17483.7	17740.6	19268.3	19543.6	17410.3
55°	12776.8	13212.6	15047.6	17194.7	18465.5	18768.3	18658.2	19034.3	20277.6	20552.9	18061.8
56°	11928.0	12157.4	14483.4	16937.8	18580.2	19185.8	19130.7	19300.5	20814.4	21103.4	18162.7
57.5°	10359.0	10377.3	12350.1	15800.0	18148.9	19309.6	19254.6	19387.6	20708.9	20511.6	17277.3
60°	6482.4	6766.8	8404.6	12152.8	15433.0	17915.0	18226.9	17158.0	17460.7	17043.3	13441.9
62.5°	3358.2	3316.9	4404.2	7106.4	10244.3	12827.2	13116.2	13065.8	12597.8	11987.7	8780.9
65°	1674.5	1683.7	2303.0	3518.8	5248.3	6716.4	7523.8	7611.0	6367.7	5858.5	4165.6
67.5°	1215.8	1261.6	1656.1	2151.6	2472.8	2766.4	3390.3	3326.1	2518.7	2394.8	2220.4
70°	945.1	986.3	1344.2	1642.4	1491.0	1491.0	1624.0	1679.1	1793.8	1844.3	1903.9
72.5°	688.2	720.3	1027.6	1133.2	977.2	1050.6	1215.8	1344.2	1463.5	1481.8	1550.7
75°	472.5	500.0	674.4	623.9	587.2	724.8	890.0	1009.3	1096.4	1142.3	1183.7
77.5°	307.4	316.6	385.4	325.7	376.2	467.9	578.1	679.0	766.2	802.8	812.0
80°	137.7	151.4	165.1	206.5	261.5	334.9	412.9	495.5	550.5	564.3	591.8
82.5°	78.0	78.0	100.9	146.8	192.7	243.1	298.2	357.8	422.0	435.8	431.3
85°	41.3	41.3	59.7	87.1	119.3	142.2	137.7	142.2	151.4	174.3	169.8
87.5°	13.8	13.8	18.3	18.3	22.9	27.6	22.9	32.1	41.3	41.3	41.3
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°	9423.1	9423.1	9423.1	9423.1	9423.1	9423.1	9423.1	9423.1	9423.1	9423.1	9423.1
2.5°	9409.4	9450.7	9395.6	9514.9	9514.9	9491.9	9377.3	9413.9	9441.5	9441.5	9464.4
5°	9588.3	9574.5	9611.2	9469.0	9381.8	9349.7	9161.6	9069.9	8991.9	8987.3	8918.4
7.5°	9689.2	9652.5	9638.7	9533.3	9147.9	8913.9	8510.2	8276.2	8225.7	8046.8	8115.6
10°	9849.7	9918.6	9849.7	9276.4	8739.5	8202.8	7808.2	7445.9	7303.6	7189.0	7120.1
12.5°	10180.1	10148.0	9748.8	8973.6	8221.2	7583.4	6996.3	6615.5	6473.2	6372.3	6363.1
15°	10459.9	10299.3	9689.2	8496.4	7413.8	6734.7	6253.0	5982.4	5918.1	5927.3	5968.6
17.5°	10556.3	10446.2	9377.3	8000.9	6812.7	6014.5	5789.7	5748.4	5808.1	5876.8	5895.2
20°	10707.7	10533.4	9248.8	7326.5	6069.5	5564.9	5551.1	5697.9	5808.1	5909.0	5922.7
22.5°	11024.2	10583.8	8831.3	6688.9	5560.3	5431.8	5564.9	5688.7	5858.5	5941.1	5867.6
25°	11116.0	10473.7	8244.1	5922.7	5239.1	5349.2	5491.5	5661.2	5780.5	5826.4	5858.5
27.5°	11194.0	10304.0	7450.4	5413.5	5138.2	5344.7	5491.5	5633.7	5697.9	5739.2	5775.9
30°	11414.2	10253.5	6762.3	5074.0	5074.0	5252.9	5441.0	5477.7	5564.9	5615.4	5679.6
32.5°	11524.3	9904.9	6055.7	4858.4	5009.8	5298.8	5312.6	5381.4	5385.9	5427.2	5358.5
35°	11813.4	9657.1	5399.7	4702.4	5037.3	5252.9	5321.7	5280.5	5055.7	4945.5	4968.4
37.5°	12024.4	9533.3	4927.2	4684.1	5041.9	5303.4	5340.1	5028.1	4794.2	4610.6	4656.5
40°	12593.2	9225.9	4569.4	4652.0	5083.2	5358.5	5257.5	4918.0	4495.9	4307.8	4275.7
42.5°	13029.0	9005.7	4344.6	4615.2	5115.3	5436.4	5216.2	4697.8	4266.6	4092.2	4138.1
45°	13533.7	8955.2	4225.3	4624.4	5170.3	5477.7	5165.8	4528.1	4069.3	4000.5	3986.7
47.5°	13712.6	8592.7	4096.8	4546.4	5156.6	5463.9	4996.0	4399.6	3995.9	4005.0	4041.8
50°	13414.4	8221.2	4000.5	4385.8	5064.8	5340.1	4729.9	4229.8	3954.6	4069.3	4133.5
52.5°	13033.7	7840.4	3803.2	4170.2	4876.8	5147.4	4606.1	4220.7	3913.3	3876.6	3890.3
55°	13148.4	7528.4	3528.0	3876.6	4574.0	4789.5	4468.4	4133.5	3812.3	3674.8	3720.7
56°	12776.8	7207.3	3349.0	3693.1	4367.5	4560.2	4399.6	4055.5	3729.8	3638.1	3638.1
57.5°	11726.1	6129.2	3115.0	3399.5	3931.7	4161.0	4266.6	4009.7	3638.1	3477.5	3482.1
60°	8647.8	4358.3	2793.9	2995.8	3257.3	3440.7	3931.7	3881.2	3408.6	3298.5	3257.3
62.5°	5330.9	3183.8	2564.6	2642.5	2775.6	2926.9	3431.6	3514.2	3165.5	3046.3	3018.7
65°	2986.6	2436.1	2390.2	2422.3	2486.5	2564.6	2848.9	3032.5	2793.9	2610.4	2601.2
67.5°	2183.7	2179.2	2215.9	2243.4	2270.9	2270.9	2339.8	2413.1	2381.0	2234.2	2220.4
70°	1940.6	1954.4	1981.9	1986.5	1995.6	1963.5	1908.5	1885.5	1922.3	1830.5	1812.2
72.5°	1601.1	1647.0	1679.1	1683.7	1633.2	1591.9	1518.6	1440.6	1413.0	1394.7	1390.1
75°	1229.5	1261.6	1275.4	1270.8	1252.4	1192.8	1105.6	1027.6	977.2	922.1	949.6
77.5°	830.4	876.3	899.2	899.2	871.6	779.9	738.6	679.0	628.5	568.8	578.1
80°	582.6	614.7	651.5	646.8	601.0	555.1	495.5	440.4	399.1	353.3	348.7
82.5°	435.8	454.2	472.5	463.4	431.3	385.4	344.1	293.6	247.7	215.6	215.6
85°	156.0	169.8	206.5	215.6	234.0	234.0	197.2	165.1	133.0	110.1	110.1
87.5°	45.9	45.9	50.5	50.5	45.9	50.5	41.3	45.9	50.5	32.1	32.1
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)