

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: P323192

Luminaire Tested: **GAN-SA8A-740-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA 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: 30936 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

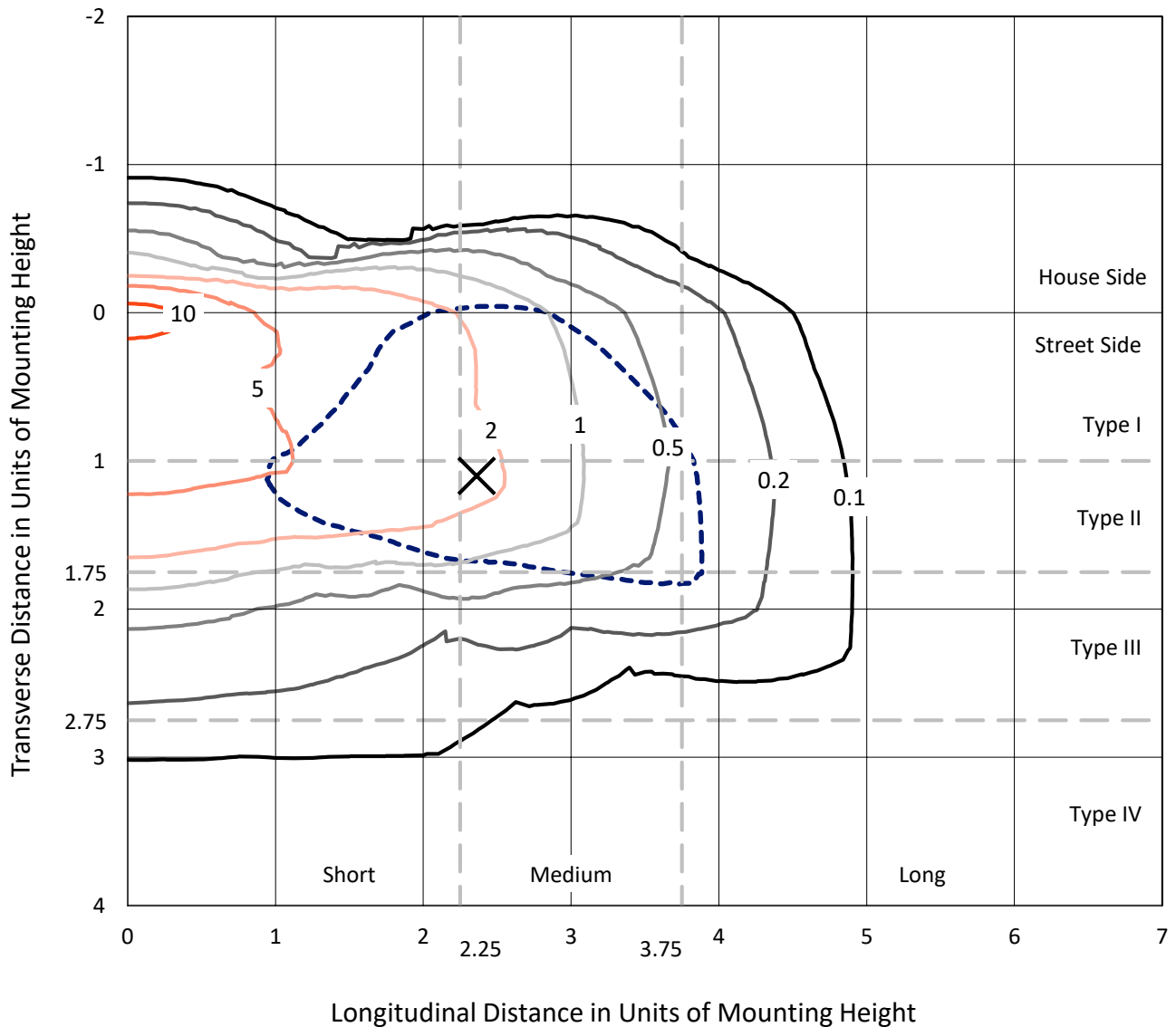
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

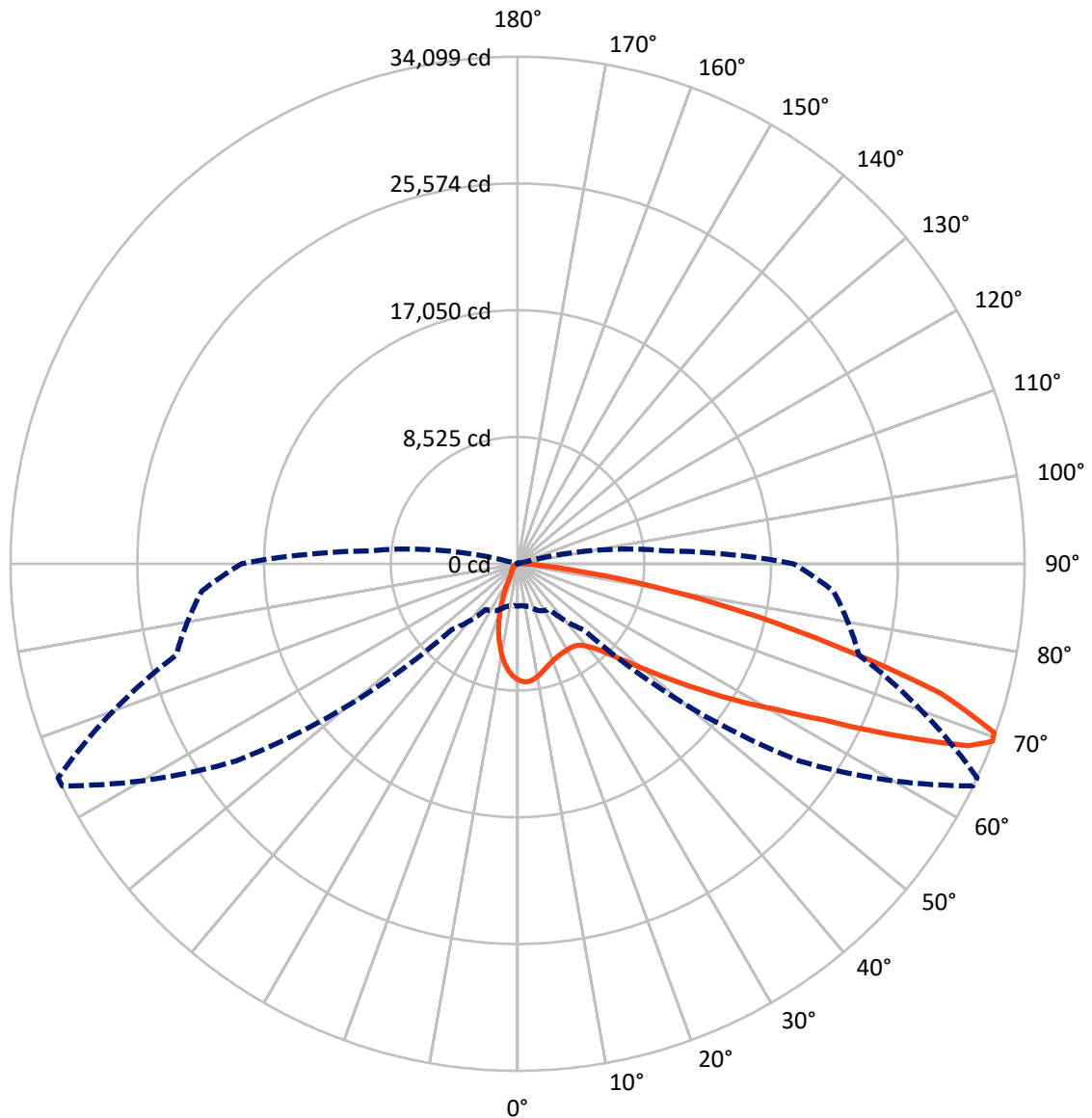
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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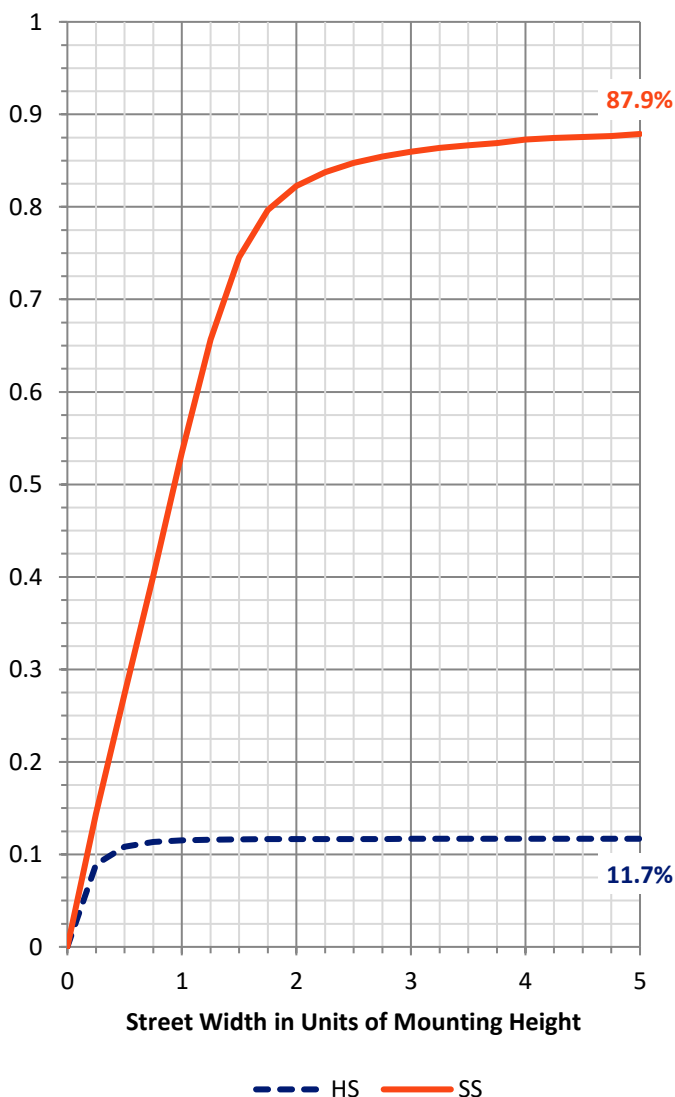
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3646.6	0.0	3646.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	27289.4	0.0	27289.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	30936.0	0.0	30936.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.7	2.1
10°-20°	1431.0	4.6
20°-30°	1982.0	6.4
30°-40°	2763.5	8.9
40°-50°	4295.4	13.9
50°-60°	6895.9	22.3
60°-70°	7800.3	25.2
70°-80°	4581.2	14.8
80°-90°	532.9	1.7
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°	30936.0	100.0
0°-180°	30936.0	100.0

Coefficient of Utilization

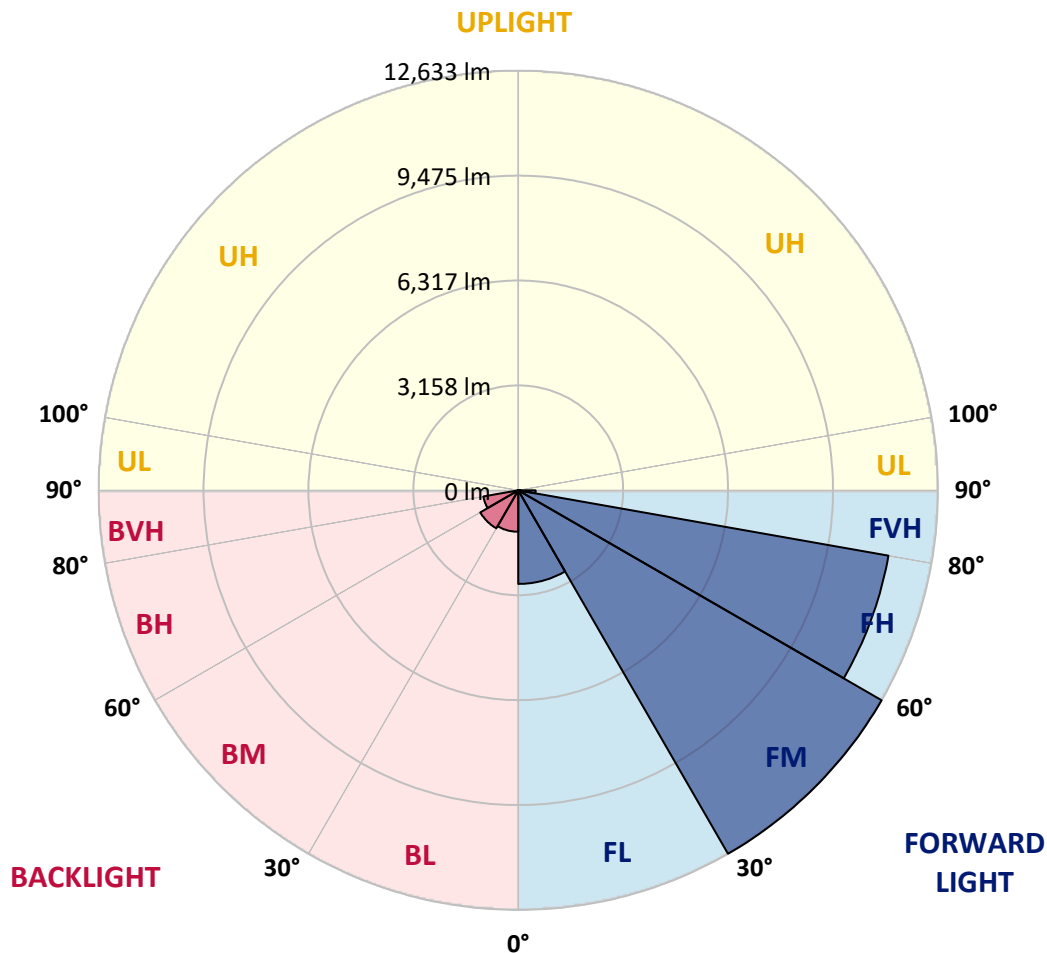


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2819.0	9.1			
FM (30°-60°)	12633.4	40.8			
FH (60°-80°)	11316.1	36.6			G4/12000
FVH (80°-90°)	520.9	1.7			G4/750
BL (0°-30°)	1247.7	4.0	B3/2500		
BM (30°-60°)	1321.4	4.3	B2/2500		
BH (60°-80°)	1065.5	3.4	B3/2500		G3/2500
BVH (80°-90°)	12.0	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7817.6	7817.6	7817.6	7817.6	7817.6	7817.6	7817.6	7817.6	7817.6	7817.6	7817.6
2.5°	7887.0	7867.3	7883.0	7917.1	7934.1	7934.1	7947.2	7931.5	7936.7	7898.7	7843.8
5°	7393.5	7363.3	7406.5	7502.1	7619.9	7720.7	7869.9	7948.5	7956.3	7957.6	7893.5
7.5°	6862.0	6834.5	6898.6	7011.2	7163.1	7350.3	7610.8	7838.5	7851.6	7974.7	7927.5
10°	6430.0	6410.4	6485.0	6605.4	6783.4	6992.9	7312.3	7629.1	7667.0	7939.3	7922.3
12.5°	6087.0	6071.3	6142.0	6280.8	6462.7	6694.4	7028.2	7396.1	7447.1	7859.5	7896.1
15°	5837.0	5834.4	5893.3	6026.8	6228.4	6444.4	6786.1	7180.1	7239.0	7773.1	7892.2
17.5°	5706.1	5710.0	5753.2	5867.1	6039.9	6254.6	6581.8	6998.1	7062.3	7695.8	7911.8
20°	5693.0	5696.9	5720.5	5784.6	5924.7	6114.5	6415.6	6845.0	6911.7	7638.2	7943.2
22.5°	5808.2	5805.6	5812.1	5805.6	5884.1	6028.1	6305.6	6727.2	6804.4	7600.3	7968.1
25°	6029.4	6025.5	6022.9	5974.5	5922.1	5999.3	6259.8	6660.4	6733.7	7572.8	7982.5
27.5°	6337.1	6334.4	6330.5	6250.7	6093.6	6045.1	6265.1	6635.5	6697.0	7550.5	7979.9
30°	6741.6	6759.9	6754.6	6643.4	6398.6	6185.2	6320.0	6622.4	6676.1	7507.3	7952.4
32.5°	7216.7	7253.4	7282.2	7163.1	6856.7	6462.7	6447.0	6636.8	6676.1	7474.6	7902.7
35°	7710.2	7757.4	7863.4	7821.5	7418.3	6880.3	6665.6	6723.2	6756.0	7492.9	7879.1
37.5°	8195.9	8252.2	8482.6	8604.3	8154.0	7432.7	7006.0	6936.6	6953.6	7604.2	7905.3
40°	8760.1	8845.2	9194.7	9391.0	9032.4	8172.3	7515.2	7303.1	7309.7	7849.0	8027.0
42.5°	9501.0	9588.7	9967.0	10274.6	10022.0	9107.0	8206.4	7863.4	7856.9	8307.2	8313.7
45°	10404.2	10495.9	10887.3	11228.9	11115.1	10214.4	9091.3	8681.5	8673.7	9029.8	8857.0
47.5°	11427.9	11518.2	11867.7	12219.9	12342.9	11507.8	10218.4	9798.2	9779.8	10033.8	9696.1
50°	12306.3	12365.2	12687.2	13161.1	13716.1	13096.9	11620.3	11215.8	11196.2	11367.7	10927.9
52.5°	12625.7	12659.7	12987.0	13650.7	15035.6	15249.0	13462.2	12941.2	12926.8	13001.4	12568.1
55°	11979.0	12040.5	12442.4	13426.8	15750.4	17681.2	15787.0	15077.5	14968.9	14807.9	14282.9
57.5°	10217.1	10315.2	10747.2	12056.2	15416.6	19610.7	19203.6	17494.0	17334.3	16349.9	15677.1
60°	7655.3	7775.7	8134.4	9546.8	13635.0	20298.0	22937.0	20186.7	19826.7	17577.8	16958.6
62.5°	5253.2	5313.4	5556.9	6477.1	10041.6	19172.2	26060.4	23793.1	23136.0	18913.0	18344.9
65°	4012.2	4033.1	4132.6	4449.4	5979.7	15573.6	27302.6	28551.5	27756.9	20510.0	19783.5
67.5°	3233.3	3216.3	3353.8	3806.7	4004.4	9501.0	25853.5	33053.2	32681.5	22645.1	21231.3
69°	2851.1	2827.5	2967.6	3493.8	3760.9	6280.8	23112.4	34075.6	34099.2	23772.1	21330.8
70°	2565.7	2581.4	2720.2	3307.9	3678.4	4929.8	20494.3	33815.1	34001.0	24193.7	20733.9
72.5°	1713.5	1755.4	2034.2	2746.4	3537.0	3730.8	12374.3	29017.5	29732.2	23244.6	17788.5
75°	966.1	997.5	1328.7	2070.9	3332.8	3552.7	6536.0	21377.9	22069.1	19437.9	13717.4
77.5°	473.9	490.9	751.4	1336.5	2786.9	3385.2	3707.2	14521.2	15310.5	12687.2	7758.7
80°	200.3	209.4	375.7	824.7	1992.4	3230.7	2752.9	8936.8	9035.0	4970.4	2067.0
82.5°	77.2	79.9	158.4	514.5	1265.8	2518.6	2302.6	4237.4	4135.3	936.0	471.3
85°	9.2	10.5	57.6	308.9	704.3	1295.9	1870.6	1826.1	1690.0	185.9	242.2
87.5°	0.0	0.0	3.9	94.3	209.4	607.4	972.6	757.9	683.3	60.2	125.7
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°	7817.6	7817.6	7817.6	7817.6	7817.6	7817.6	7817.6	7817.6	7817.6	7817.6	7817.6
2.5°	7797.9	7784.9	7714.2	7612.1	7515.2	7394.8	7279.6	7210.2	7155.2	7118.6	7161.8
5°	7818.9	7761.3	7546.6	7271.7	7002.1	6698.4	6415.6	6176.0	6081.8	5977.1	6024.2
7.5°	7812.3	7703.7	7317.5	6827.9	6333.1	5821.3	5337.0	4963.9	4770.1	4580.3	4628.8
10°	7779.6	7596.4	7011.2	6286.0	5545.1	4809.4	4122.2	3599.9	3307.9	3043.5	3081.5
12.5°	7707.6	7452.4	6649.9	5665.5	4674.6	3704.6	2899.5	2230.6	1871.9	1713.5	1733.2
15°	7664.4	7312.3	6267.7	5037.2	3745.2	2580.1	1772.4	1318.2	1154.6	1102.2	1108.8
17.5°	7643.5	7177.5	5872.3	4318.5	2794.8	1642.8	1145.4	1010.6	975.2	966.1	968.7
20°	7622.5	7041.3	5465.2	3607.7	1925.6	1104.8	941.2	901.9	888.8	877.1	879.7
22.5°	7587.2	6910.4	5028.0	2887.7	1298.6	896.7	848.3	810.3	782.8	768.4	771.0
25°	7544.0	6773.0	4581.6	2150.8	947.7	799.8	754.0	700.3	667.6	641.4	642.7
27.5°	7474.6	6604.1	4120.9	1565.6	795.9	716.0	654.5	595.6	540.6	510.5	510.5
30°	7377.7	6413.0	3609.0	1120.5	713.4	633.6	559.0	485.7	426.7	399.3	396.6
32.5°	7270.4	6214.0	3092.0	849.6	648.0	556.3	471.3	394.0	341.7	319.4	318.1
35°	7178.8	5999.3	2576.2	712.1	582.5	481.7	388.8	323.3	281.4	263.1	261.8
37.5°	7119.9	5784.6	2073.5	636.2	523.6	412.3	326.0	267.0	236.9	222.5	221.2
40°	7110.7	5624.9	1614.0	578.6	468.6	350.8	272.3	226.5	199.0	183.3	182.0
42.5°	7229.8	5533.3	1238.4	530.2	412.3	297.2	231.7	193.7	164.9	149.2	147.9
45°	7542.7	5562.1	953.0	487.0	356.1	251.3	196.4	161.0	134.8	123.0	120.4
47.5°	8113.4	5761.1	757.9	443.8	302.4	213.4	167.6	133.5	111.3	99.5	98.2
50°	9129.2	6228.4	633.6	396.6	252.6	182.0	138.8	108.7	90.3	79.9	78.5
52.5°	10477.5	7061.0	565.5	350.8	209.4	154.5	113.9	86.4	70.7	62.8	61.5
55°	11964.6	8068.9	521.0	301.1	171.5	128.3	90.3	68.1	55.0	48.4	45.8
57.5°	13416.3	8942.0	479.1	252.6	142.7	104.7	72.0	53.7	43.2	36.7	35.3
60°	14750.3	9744.5	430.7	202.9	116.5	82.5	56.3	41.9	34.0	27.5	27.5
62.5°	16178.4	10365.0	363.9	158.4	95.6	62.8	45.8	38.0	27.5	23.6	22.3
65°	17691.7	10825.8	285.4	123.0	74.6	47.1	38.0	39.3	22.3	17.0	15.7
67.5°	18809.6	10734.1	210.8	96.9	57.6	36.7	36.7	41.9	19.6	13.1	11.8
69°	18563.5	9989.3	176.7	83.8	49.7	31.4	34.0	41.9	18.3	11.8	10.5
70°	17850.1	9164.6	155.8	74.6	44.5	28.8	32.7	40.6	17.0	11.8	10.5
72.5°	14865.4	6902.6	121.7	56.3	35.3	23.6	27.5	35.3	17.0	11.8	9.2
75°	11181.8	4418.0	92.9	40.6	26.2	18.3	20.9	26.2	17.0	10.5	9.2
77.5°	6084.4	1593.1	66.8	27.5	18.3	14.4	14.4	19.6	15.7	7.9	5.2
80°	1564.3	400.6	41.9	18.3	14.4	10.5	9.2	13.1	9.2	1.3	0.0
82.5°	386.2	90.3	22.3	13.1	10.5	3.9	3.9	6.5	3.9	0.0	0.0
85°	212.1	44.5	14.4	9.2	5.2	0.0	0.0	1.3	0.0	0.0	0.0
87.5°	108.7	13.1	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
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)