

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: P382702

Luminaire Tested: **GAN-SA0D-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52135.9 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

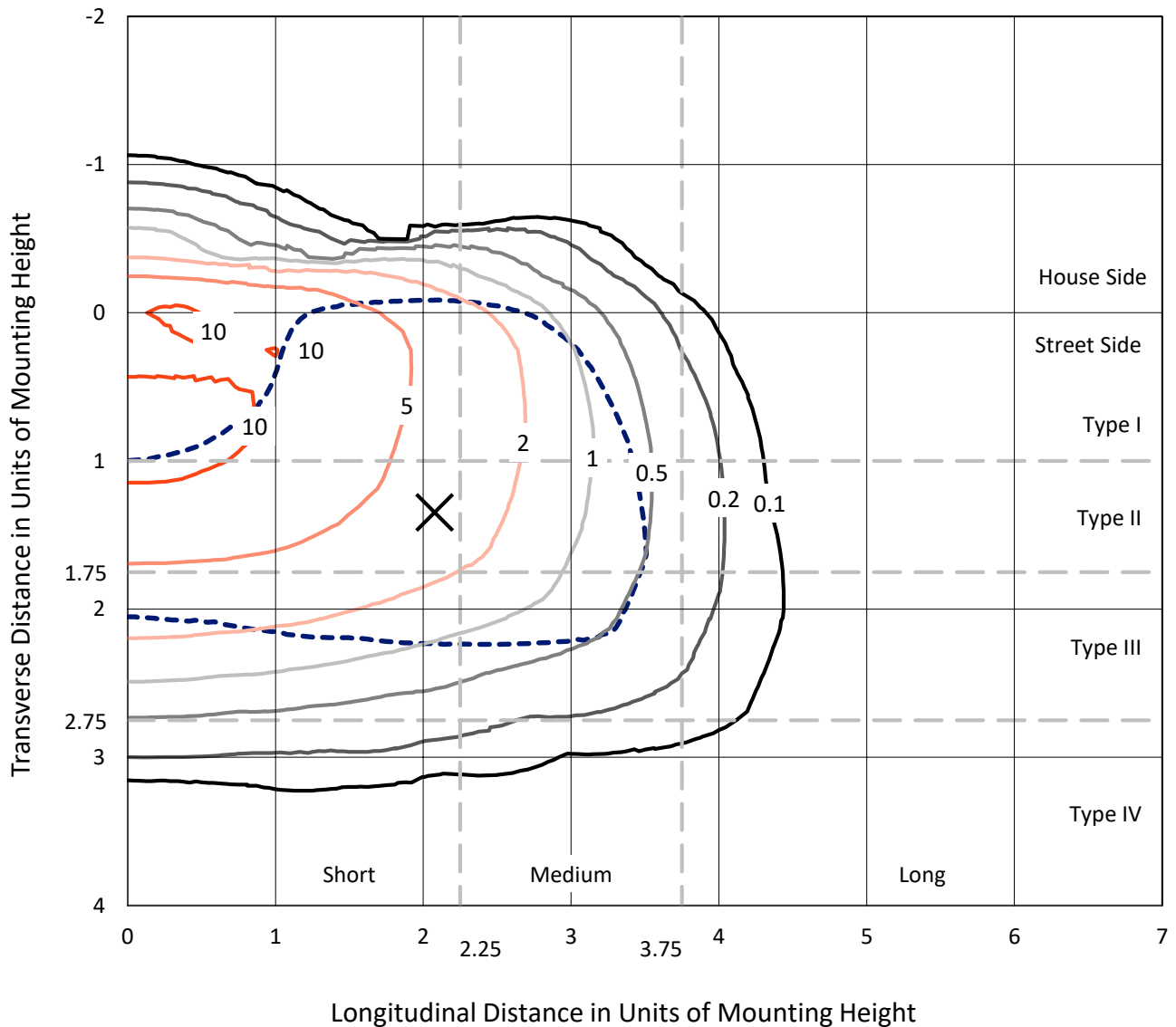
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

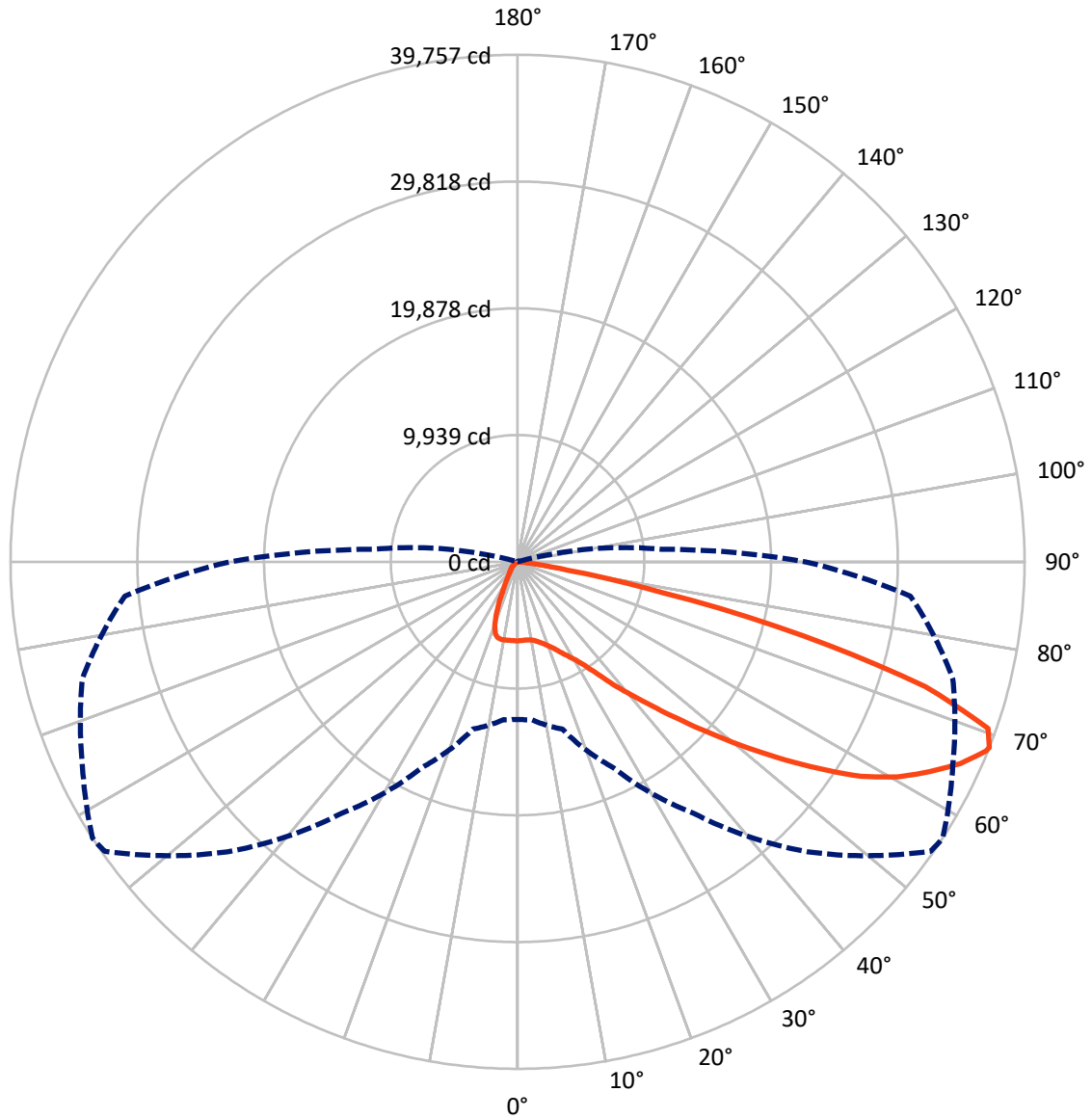
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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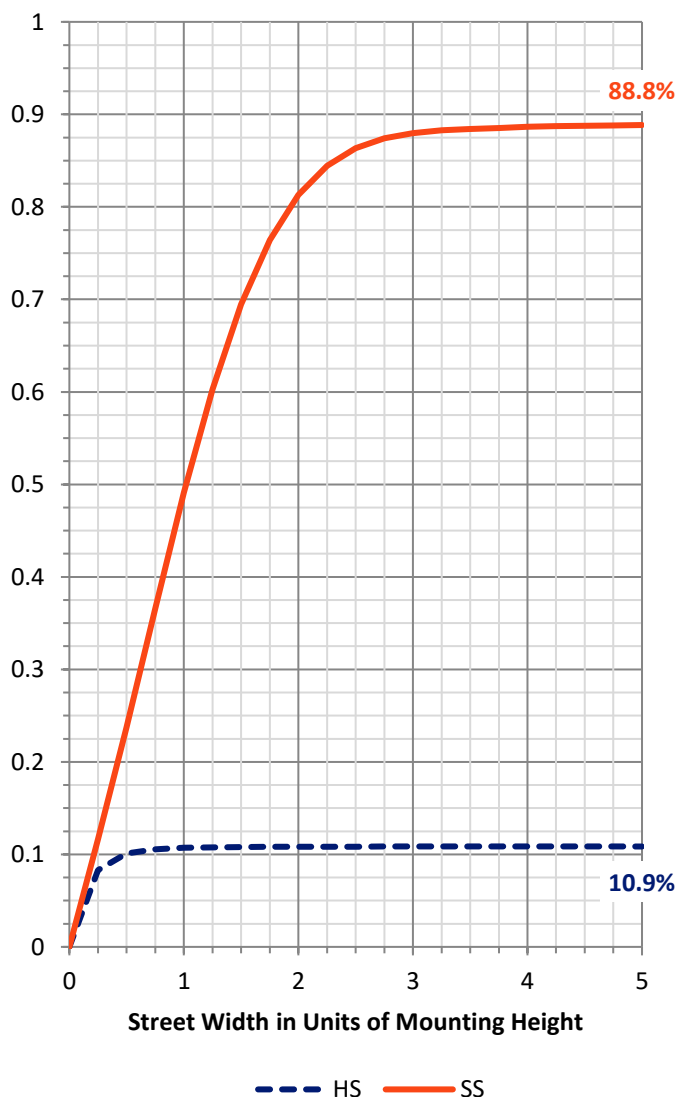
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5717.0	0.0	5717.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	46418.9	0.0	46418.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	52135.9	0.0	52135.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.8	1.1
10°-20°	1606.6	3.1
20°-30°	2771.5	5.3
30°-40°	4783.5	9.2
40°-50°	8182.3	15.7
50°-60°	13090.9	25.1
60°-70°	15125.1	29.0
70°-80°	5779.5	11.1
80°-90°	216.7	0.4
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°	52135.9	100.0
0°-180°	52135.9	100.0

Coefficient of Utilization



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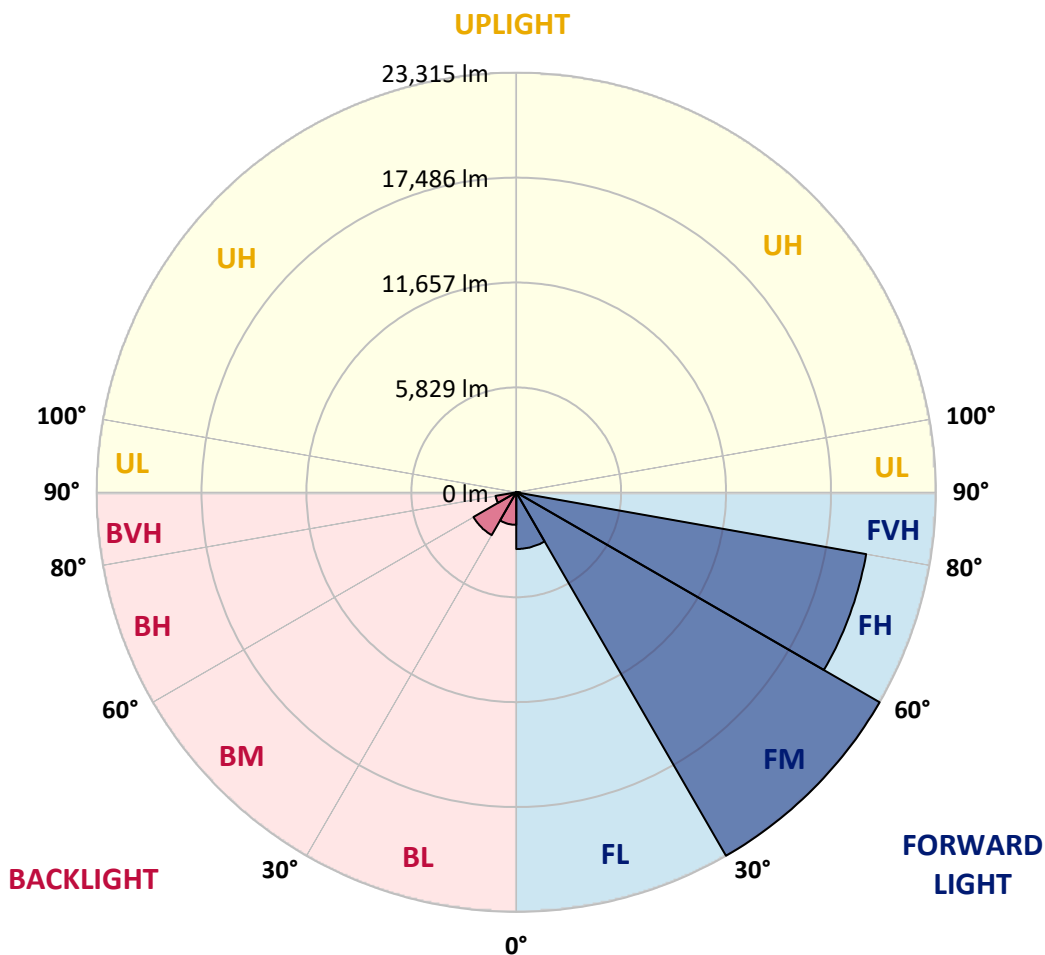
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3151.1	6.0			
FM (30°-60°)	23314.7	44.7			
FH (60°-80°)	19740.3	37.9			G5
FVH (80°-90°)	212.7	0.4			G2/225
BL (0°-30°)	1806.8	3.5	B3/2500		
BM (30°-60°)	2742.0	5.3	B3/5000		
BH (60°-80°)	1164.3	2.2	B3/2500		G3/2500
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6195.2	6195.2	6195.2	6195.2	6195.2	6195.2	6195.2	6195.2	6195.2	6195.2	6195.2
2.5°	6049.7	6076.8	6096.5	6108.8	6123.6	6155.7	6165.5	6180.4	6187.7	6187.7	6204.9
5°	5810.5	5840.2	5882.1	5916.5	5985.6	6074.3	6138.4	6163.1	6207.5	6246.9	6269.0
7.5°	5588.6	5623.2	5672.5	5753.9	5872.2	6015.2	6148.3	6182.8	6269.0	6352.9	6394.8
10°	5445.7	5472.8	5536.9	5652.8	5808.1	6007.7	6195.2	6237.0	6384.9	6525.5	6604.4
12.5°	5396.4	5421.0	5487.6	5618.3	5810.5	6044.7	6303.6	6365.3	6582.1	6786.8	6897.7
15°	5467.9	5472.8	5544.3	5667.5	5857.4	6135.9	6483.6	6557.5	6831.1	7097.4	7235.4
17.5°	5744.0	5721.8	5758.7	5813.0	5963.4	6256.7	6673.4	6784.3	7149.2	7462.3	7593.0
20°	6434.3	6434.3	6350.5	6202.5	6204.9	6444.1	6929.8	7055.4	7501.7	7864.1	7982.4
22.5°	7615.1	7593.0	7425.3	7062.9	6730.1	6767.0	7242.9	7405.5	7925.7	8312.8	8352.2
25°	9035.1	9008.0	8749.1	8238.8	7662.0	7289.6	7666.8	7854.3	8431.1	8773.8	8692.4
27.5°	10538.9	10516.7	10260.3	9626.7	8805.8	8122.9	8172.3	8349.7	8946.3	9284.1	9025.2
30°	11995.8	12003.2	11749.3	11098.5	10169.1	9185.4	8813.2	8916.8	9446.7	9789.4	9419.6
32.5°	13381.3	13391.1	13171.7	12444.5	11576.7	10420.6	9700.7	9673.6	10028.6	10366.3	9942.3
35°	14616.4	14641.0	14490.6	13926.1	13006.5	11796.1	10852.0	10787.9	10854.4	11236.5	10743.4
37.5°	15807.1	15821.9	15708.4	15232.7	14463.5	13307.3	12306.4	12215.2	12072.2	12365.5	11801.0
40°	17111.1	17074.1	16943.5	16512.1	15851.4	14976.3	13869.3	13711.6	13462.6	13723.9	13191.5
42.5°	18324.0	18282.2	18304.4	17816.2	17259.1	16692.0	15691.2	15420.0	15274.6	15575.3	14897.4
45°	19840.2	19818.0	19891.9	19467.9	19016.8	18605.1	17779.2	17483.4	17419.3	17771.9	16960.8
47.5°	21336.5	21390.8	21620.1	21440.1	21257.6	20895.3	19990.5	19857.4	19896.8	20323.4	19137.6
50°	22584.0	22648.1	23276.7	23483.8	23747.6	23535.6	22628.3	22547.0	22702.3	23086.9	21479.5
52.5°	23486.3	23616.9	24398.3	25352.4	26313.9	26456.9	25552.1	25478.1	25687.7	25746.9	23289.1
55°	24112.5	24228.2	25113.3	26858.7	28816.0	29432.3	28870.3	28584.4	28544.9	27960.7	25192.2
57.5°	24223.3	24211.0	25483.0	27832.4	30778.4	32368.5	32013.5	31732.4	30923.8	30006.7	27373.9
60°	23597.2	23668.7	25145.4	28170.2	32011.0	34589.7	34616.8	34251.9	32992.2	31996.2	29489.1
62.5°	21669.4	21960.3	23451.7	27285.1	31996.2	35484.5	36524.9	36246.2	34740.0	33625.7	31633.9
65°	18543.5	18647.0	20069.4	24252.9	29834.2	35109.8	38243.1	38139.6	36315.3	35208.4	32735.8
67.5°	13541.5	13317.1	14811.1	19098.1	25258.7	32925.6	39475.7	39606.4	37530.7	35533.8	31562.3
68°	12358.2	12424.8	13588.4	17823.6	24060.7	32153.9	39557.1	39756.8	37651.5	35321.8	30921.4
70°	7366.1	7494.3	8532.1	12271.9	18304.4	27788.1	38679.4	39135.5	36931.6	33135.1	26745.3
72.5°	1881.0	2033.8	3015.0	5492.5	10455.0	19578.9	32652.0	33423.6	32065.3	26880.8	18055.3
75°	774.1	813.5	1077.3	1809.4	3895.1	8820.6	21521.5	23173.2	22229.0	16093.0	8159.9
77.5°	535.0	562.1	692.7	1003.4	1686.2	2990.4	10551.2	11744.4	10580.8	5492.5	1779.9
80°	384.5	406.8	495.5	668.1	968.8	1067.5	3439.0	3976.4	3157.9	1205.5	441.3
82.5°	229.3	246.5	369.8	475.8	589.2	510.3	855.4	971.3	914.6	599.1	197.2
85°	113.4	133.1	249.0	340.2	318.0	214.4	261.3	290.9	359.9	364.9	106.0
87.5°	7.4	14.8	145.4	204.6	88.8	49.3	76.4	93.7	128.2	180.0	44.3
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°	6195.2	6195.2	6195.2	6195.2	6195.2	6195.2	6195.2	6195.2	6195.2	6195.2	6195.2
2.5°	6212.4	6214.8	6197.6	6190.2	6195.2	6165.5	6153.2	6158.2	6158.2	6165.5	6153.2
5°	6274.0	6274.0	6244.4	6204.9	6182.8	6126.1	6089.2	6079.3	6071.8	6066.9	6057.1
7.5°	6407.1	6392.4	6340.6	6254.3	6180.4	6057.1	5963.4	5914.1	5889.4	5879.6	5872.2
10°	6621.6	6594.5	6508.2	6347.9	6177.8	5958.5	5753.9	5608.4	5487.6	5438.3	5408.8
12.5°	6910.0	6870.6	6725.1	6458.9	6160.6	5756.3	5312.6	4886.1	4489.2	4326.5	4245.2
15°	7242.9	7186.1	6956.9	6552.6	6059.5	5300.2	4336.4	3589.3	3039.6	2832.6	2743.8
17.5°	7580.6	7506.6	7159.0	6611.8	5756.3	4356.1	3042.1	2297.6	1930.3	1831.7	1797.1
20°	7920.8	7812.3	7334.1	6567.4	5071.0	3140.7	2006.7	1678.8	1572.8	1543.2	1533.3
22.5°	8243.7	8076.1	7491.9	6394.8	4015.9	2107.8	1587.6	1484.0	1449.6	1432.3	1427.4
25°	8524.8	8290.6	7629.8	5862.3	2842.4	1592.6	1429.8	1395.4	1350.9	1318.9	1321.4
27.5°	8788.5	8505.0	7713.7	4984.7	1895.8	1360.8	1323.8	1277.0	1195.6	1148.8	1148.8
30°	9106.5	8791.0	7775.3	3835.9	1395.4	1203.0	1173.5	1101.9	991.0	929.4	929.4
32.5°	9584.8	9224.9	7735.9	2692.0	1156.2	1057.6	988.6	889.9	769.2	710.0	707.5
35°	10317.0	9895.5	7454.9	1765.1	1020.6	919.5	808.6	687.8	581.8	532.5	530.1
37.5°	11303.1	10792.8	6823.8	1262.2	914.6	791.3	658.2	525.1	446.2	414.2	411.7
40°	12582.5	11835.6	5921.5	1023.0	816.0	668.1	507.9	406.8	352.5	327.9	330.3
42.5°	14118.3	12952.3	4839.2	882.5	719.8	549.7	396.9	320.5	286.0	268.8	263.8
45°	15824.3	14054.3	3705.2	786.4	623.7	443.7	310.6	253.9	226.8	217.0	217.0
47.5°	17700.3	15126.7	2711.7	702.6	520.2	342.6	249.0	207.1	184.9	177.5	175.0
50°	19403.9	15871.1	1954.9	613.8	426.5	271.2	202.1	172.5	157.8	147.9	147.9
52.5°	20823.8	16105.3	1439.7	517.7	345.1	217.0	167.7	147.9	133.1	125.8	125.8
55°	22073.7	16009.2	1069.9	426.5	278.5	177.5	143.0	125.8	113.4	106.0	106.0
57.5°	23271.7	15698.6	798.7	347.6	224.3	143.0	120.8	106.0	93.7	88.8	88.8
60°	24250.4	15180.9	594.1	281.0	180.0	115.9	101.1	86.3	76.4	69.0	69.0
62.5°	25044.3	14609.0	436.3	231.8	143.0	91.2	78.9	71.4	56.7	49.3	49.3
65°	25049.2	13659.8	327.9	192.3	110.9	71.4	59.2	56.7	37.0	29.6	27.1
67.5°	23237.3	11776.4	251.4	165.2	86.3	54.2	44.3	46.9	19.7	12.3	9.9
68°	22579.0	11298.2	236.7	162.7	81.3	51.8	41.9	46.9	17.2	9.9	7.4
70°	19036.5	8988.2	189.8	157.8	71.4	39.4	34.5	46.9	14.8	7.4	4.9
72.5°	12175.8	5216.4	140.5	125.8	54.2	29.6	22.2	41.9	14.8	4.9	2.4
75°	5181.9	1617.2	96.1	88.8	32.0	22.2	14.8	27.1	9.9	2.4	0.0
77.5°	1092.1	364.9	56.7	54.2	22.2	14.8	9.9	7.4	2.4	0.0	0.0
80°	281.0	106.0	29.6	27.1	12.3	7.4	4.9	0.0	0.0	0.0	0.0
82.5°	88.8	41.9	17.2	12.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	44.3	24.7	9.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.7	7.4	2.4	0.0	0.0	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)