

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: P323213

Luminaire Tested: **GAN-SA9C-740-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323213
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-SA9C-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA 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: 52376 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

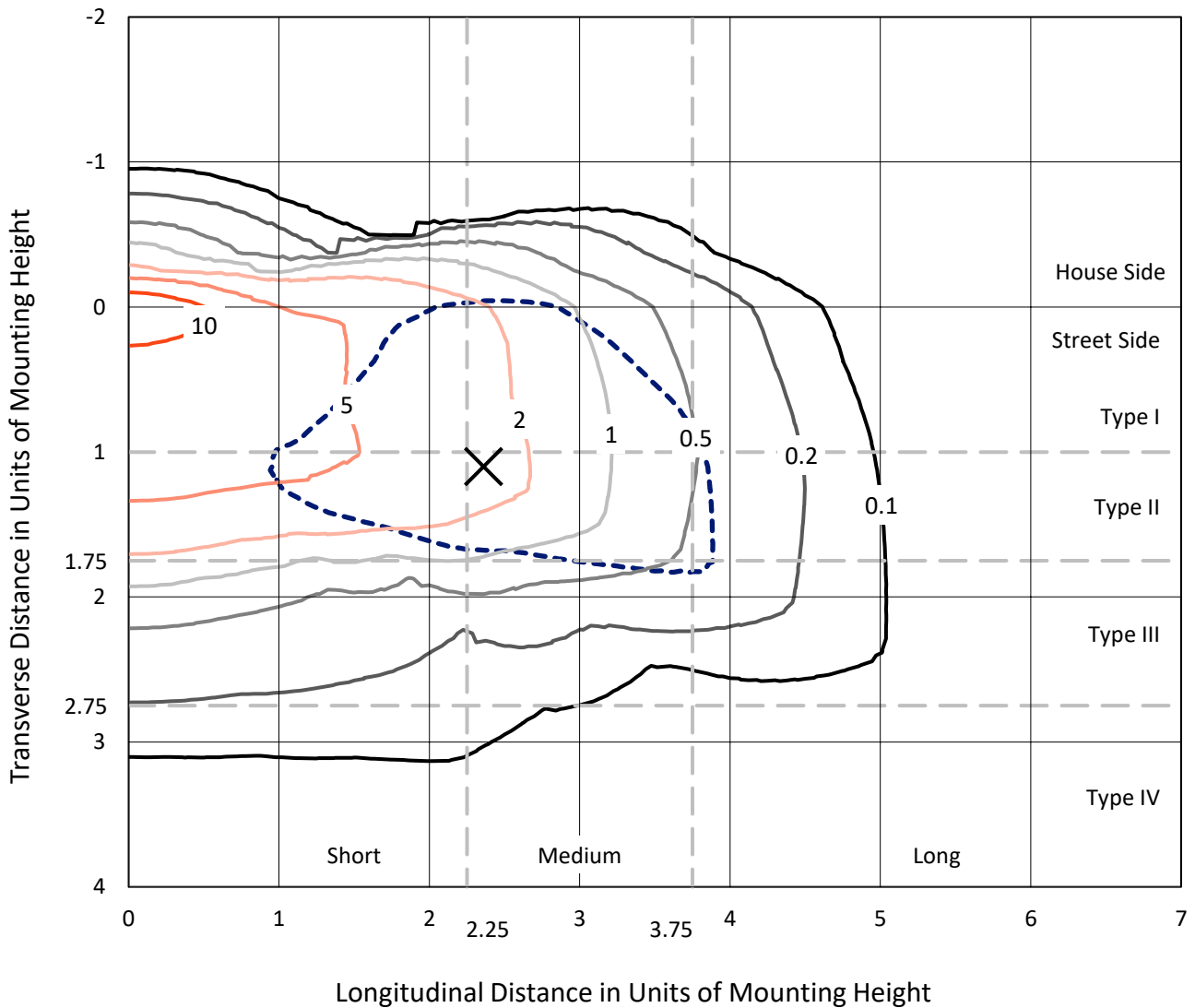
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

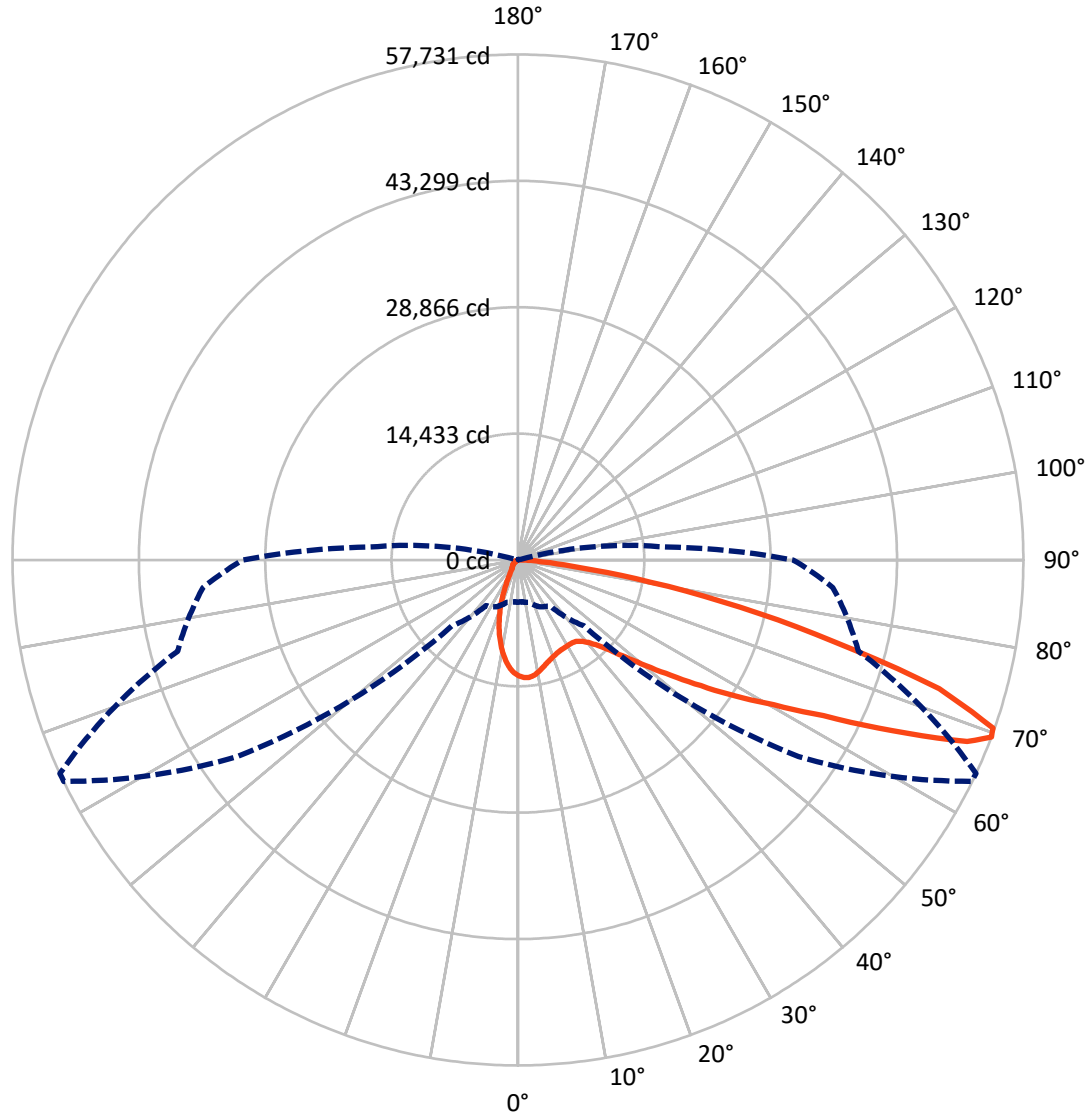
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.7 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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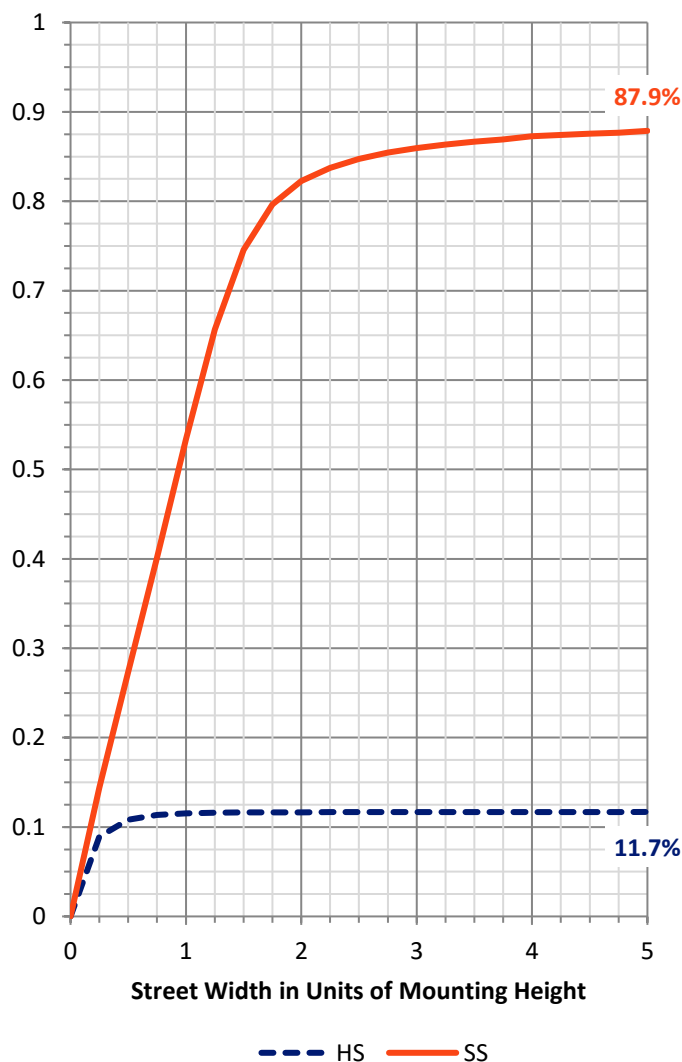
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6173.9	0.0	6173.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	46202.1	0.0	46202.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	52376.0	0.0	52376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1106.8	2.1
10°-20°	2422.8	4.6
20°-30°	3355.6	6.4
30°-40°	4678.8	8.9
40°-50°	7272.4	13.9
50°-60°	11675.0	22.3
60°-70°	13206.3	25.2
70°-80°	7756.2	14.8
80°-90°	902.2	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°	52376.0	100.0
0°-180°	52376.0	100.0

Coefficient of Utilization



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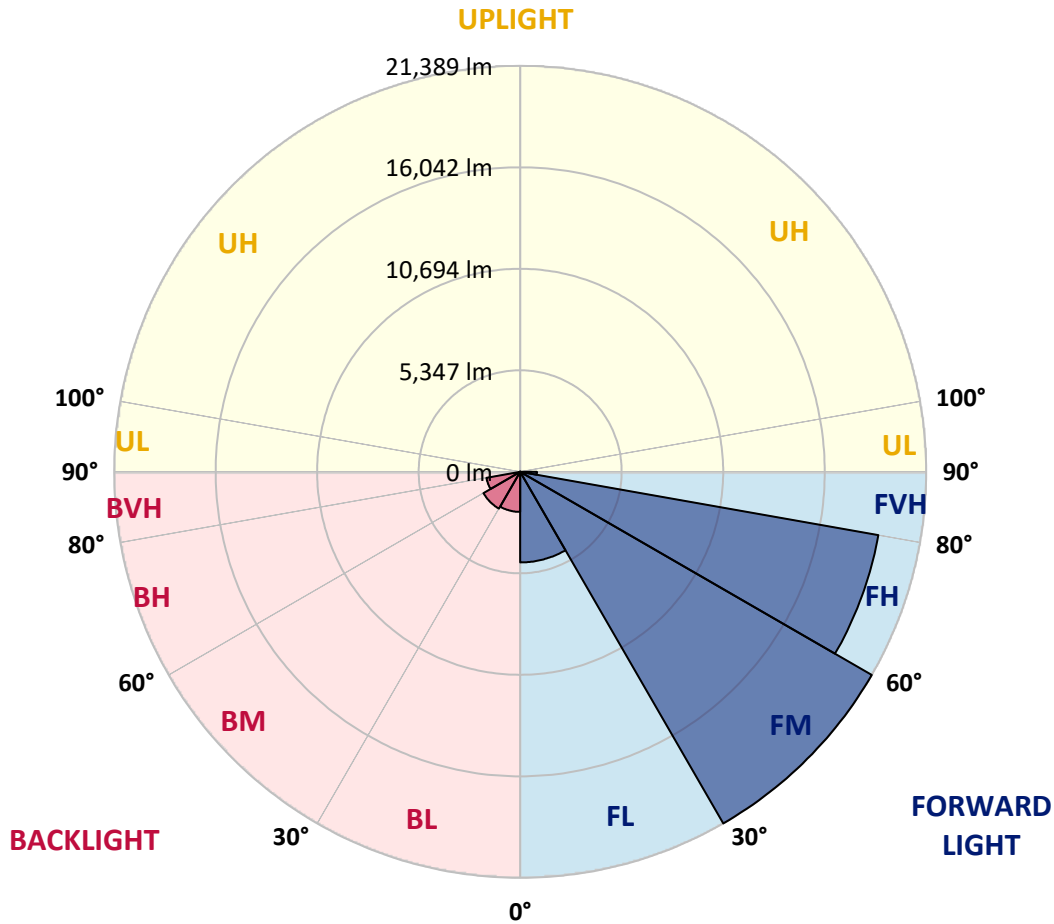
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4772.7	9.1			
FM (30°-60°)	21388.8	40.8			
FH (60°-80°)	19158.6	36.6			G5
FVH (80°-90°)	882.0	1.7			G5
BL (0°-30°)	2112.4	4.0	B3/2500		
BM (30°-60°)	2237.3	4.3	B2/2500		
BH (60°-80°)	1803.9	3.4	B3/2500		G3/2500
BVH (80°-90°)	20.3	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-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5
2.5°	13353.0	13319.7	13346.3	13403.9	13432.8	13432.8	13454.9	13428.3	13437.2	13372.9	13279.8
5°	12517.4	12466.5	12539.6	12701.4	12900.9	13071.5	13324.2	13457.1	13470.4	13472.6	13364.1
7.5°	11617.6	11571.1	11679.7	11870.3	12127.4	12444.3	12885.3	13271.0	13293.1	13501.5	13421.7
10°	10886.3	10853.0	10979.4	11183.2	11484.7	11839.3	12380.0	12916.4	12980.6	13441.6	13412.8
12.5°	10305.6	10279.0	10398.7	10633.6	10941.7	11334.0	11899.1	12521.9	12608.3	13306.4	13368.5
15°	9882.3	9877.9	9977.6	10203.7	10545.0	10910.6	11489.1	12156.2	12255.9	13160.2	13361.8
17.5°	9660.7	9667.3	9740.5	9933.3	10225.8	10589.3	11143.4	11848.1	11956.7	13029.4	13395.1
20°	9638.5	9645.2	9685.1	9793.7	10030.8	10352.2	10861.9	11588.8	11701.9	12931.9	13448.3
22.5°	9833.5	9829.1	9840.2	9829.1	9962.1	10205.9	10675.7	11389.4	11520.1	12867.6	13490.4
25°	10208.1	10201.4	10197.0	10115.0	10026.4	10157.1	10598.2	11276.3	11400.4	12821.1	13514.8
27.5°	10728.9	10724.5	10717.8	10582.6	10316.7	10234.7	10607.0	11234.2	11338.4	12783.4	13510.3
30°	11413.7	11444.8	11435.9	11247.5	10833.1	10471.8	10700.1	11212.1	11302.9	12710.3	13463.8
32.5°	12218.2	12280.3	12329.1	12127.4	11608.8	10941.7	10915.1	11236.4	11302.9	12654.8	13379.6
35°	13053.8	13133.6	13313.1	13242.2	12559.5	11648.7	11285.2	11382.7	11438.1	12685.9	13339.7
37.5°	13876.0	13971.3	14361.4	14567.5	13805.1	12583.9	11861.4	11744.0	11772.8	12874.3	13384.0
40°	14831.2	14975.3	15567.0	15899.5	15292.2	13836.1	12723.6	12364.5	12375.6	13288.7	13590.1
42.5°	16085.6	16234.1	16874.6	17395.4	16967.7	15418.5	13893.7	13313.1	13302.0	14064.4	14075.5
45°	17614.8	17770.0	18432.6	19011.1	18818.3	17293.5	15391.9	14698.2	14684.9	15287.8	14995.2
47.5°	19348.0	19500.9	20092.6	20688.8	20897.1	19483.1	17300.1	16588.7	16557.7	16987.6	16415.8
50°	20835.1	20934.8	21480.0	22282.3	23222.0	22173.7	19673.7	18988.9	18955.7	19246.0	18501.3
52.5°	21375.8	21433.5	21987.5	23111.2	25456.0	25817.2	22792.0	21910.0	21885.6	22011.9	21278.3
55°	20281.0	20385.2	21065.6	22732.2	26666.0	29935.0	26728.1	25526.9	25342.9	25070.3	24181.6
57.5°	17297.9	17464.1	18195.5	20411.8	26100.9	33201.8	32512.5	29618.1	29347.7	27681.1	26541.9
60°	12960.7	13164.6	13771.8	16163.2	23084.6	34365.3	38833.3	34177.0	33567.5	29759.9	28711.7
62.5°	8893.9	8995.8	9408.0	10966.1	17000.9	32459.3	44121.3	40282.7	39170.2	32020.5	31058.7
65°	6792.8	6828.3	6996.7	7533.1	10123.9	26366.8	46224.5	48338.9	46993.6	34724.4	33494.3
67.5°	5474.2	5445.4	5678.1	6444.9	6779.5	16085.6	43771.1	55960.6	55331.2	38339.1	35945.5
69°	4827.0	4787.1	5024.3	5915.2	6367.3	10633.6	39130.3	57691.5	57731.4	40247.3	36114.0
70°	4343.9	4370.5	4605.4	5600.5	6227.7	8346.4	34697.8	57250.4	57565.1	40960.9	35103.3
72.5°	2901.1	2972.0	3444.1	4649.7	5988.3	6316.3	20950.3	49127.8	50337.9	39354.1	30116.8
75°	1635.6	1688.8	2249.5	3506.1	5642.6	6014.9	11065.8	36193.7	37363.9	32909.3	23224.2
77.5°	802.3	831.1	1272.1	2262.8	4718.4	5731.2	6276.4	24585.0	25921.4	21480.0	13135.8
80°	339.1	354.6	636.1	1396.2	3373.1	5469.7	4660.8	15130.4	15296.6	8415.1	3499.5
82.5°	130.8	135.2	268.2	871.0	2143.1	4264.1	3898.4	7174.0	7001.2	1584.6	797.9
85°	15.5	17.7	97.5	523.0	1192.3	2194.1	3167.0	3091.7	2861.2	314.7	410.0
87.5°	0.0	0.0	6.6	159.6	354.6	1028.3	1646.7	1283.2	1156.9	101.9	212.8
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°	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5
2.5°	13202.3	13180.1	13060.4	12887.6	12723.6	12519.7	12324.6	12207.2	12114.1	12052.0	12125.2
5°	13237.7	13140.2	12776.7	12311.3	11854.8	11340.6	10861.9	10456.3	10296.7	10119.4	10199.2
7.5°	13226.6	13042.7	12388.9	11560.0	10722.3	9855.7	9035.7	8404.1	8076.1	7754.7	7836.7
10°	13171.2	12861.0	11870.3	10642.5	9388.1	8142.5	6979.0	6094.7	5600.5	5152.8	5217.1
12.5°	13049.3	12617.2	11258.6	9592.0	7914.3	6272.0	4909.0	3776.5	3169.3	2901.1	2934.3
15°	12976.2	12380.0	10611.5	8528.2	6340.7	4368.2	3000.8	2231.8	1954.7	1866.1	1877.2
17.5°	12940.7	12151.8	9942.1	7311.4	4731.7	2781.4	1939.2	1711.0	1651.1	1635.6	1640.0
20°	12905.3	11921.3	9252.9	6108.0	3260.1	1870.5	1593.5	1527.0	1504.8	1484.9	1489.3
22.5°	12845.4	11699.6	8512.7	4889.1	2198.5	1518.1	1436.1	1371.9	1325.3	1300.9	1305.4
25°	12772.3	11466.9	7756.9	3641.3	1604.6	1354.1	1276.6	1185.7	1130.3	1086.0	1088.2
27.5°	12654.8	11181.0	6976.8	2650.6	1347.5	1212.3	1108.1	1008.4	915.3	864.3	864.3
30°	12490.8	10857.5	6110.2	1897.1	1207.9	1072.7	946.3	822.2	722.5	676.0	671.5
32.5°	12309.1	10520.6	5234.8	1438.4	1097.0	941.9	797.9	667.1	578.4	540.8	538.6
35°	12154.0	10157.1	4361.6	1205.6	986.2	815.6	658.2	547.4	476.5	445.5	443.3
37.5°	12054.2	9793.7	3510.6	1077.1	886.5	698.1	551.8	452.1	401.1	376.8	374.5
40°	12038.7	9523.3	2732.6	979.6	793.4	594.0	461.0	383.4	336.9	310.3	308.1
42.5°	12240.4	9368.1	2096.6	897.6	698.1	503.1	392.3	328.0	279.2	252.7	250.4
45°	12770.1	9416.9	1613.4	824.4	602.8	425.5	332.4	272.6	228.3	208.3	203.9
47.5°	13736.4	9753.8	1283.2	751.3	512.0	361.3	283.7	226.1	188.4	168.4	166.2
50°	15456.2	10545.0	1072.7	671.5	427.7	308.1	234.9	183.9	152.9	135.2	133.0
52.5°	17738.9	11954.5	957.4	594.0	354.6	261.5	192.8	146.3	119.7	106.4	104.2
55°	20256.6	13661.0	882.1	509.7	290.3	217.2	152.9	115.2	93.1	82.0	77.6
57.5°	22714.5	15139.3	811.2	427.7	241.6	177.3	121.9	90.9	73.1	62.1	59.8
60°	24972.8	16497.8	729.1	343.5	197.2	139.6	95.3	70.9	57.6	46.5	46.5
62.5°	27390.8	17548.3	616.1	268.2	161.8	106.4	77.6	64.3	46.5	39.9	37.7
65°	29952.8	18328.5	483.1	208.3	126.3	79.8	64.3	66.5	37.7	28.8	26.6
67.5°	31845.4	18173.3	356.8	164.0	97.5	62.1	62.1	70.9	33.2	22.2	19.9
69°	31428.8	16912.3	299.2	141.8	84.2	53.2	57.6	70.9	31.0	19.9	17.7
70°	30220.9	15516.0	263.7	126.3	75.4	48.8	55.4	68.7	28.8	19.9	17.7
72.5°	25167.9	11686.3	206.1	95.3	59.8	39.9	46.5	59.8	28.8	19.9	15.5
75°	18931.3	7479.9	157.4	68.7	44.3	31.0	35.5	44.3	28.8	17.7	15.5
77.5°	10301.2	2697.2	113.0	46.5	31.0	24.4	24.4	33.2	26.6	13.3	8.9
80°	2648.4	678.2	70.9	31.0	24.4	17.7	15.5	22.2	15.5	2.2	0.0
82.5°	653.8	152.9	37.7	22.2	17.7	6.6	6.6	11.1	6.6	0.0	0.0
85°	359.0	75.4	24.4	15.5	8.9	0.0	0.0	2.2	0.0	0.0	0.0
87.5°	183.9	22.2	6.6	4.4	2.2	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)