

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: P322263

Luminaire Tested: **GAN-SA9D-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322263
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-SA9D-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 50549 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

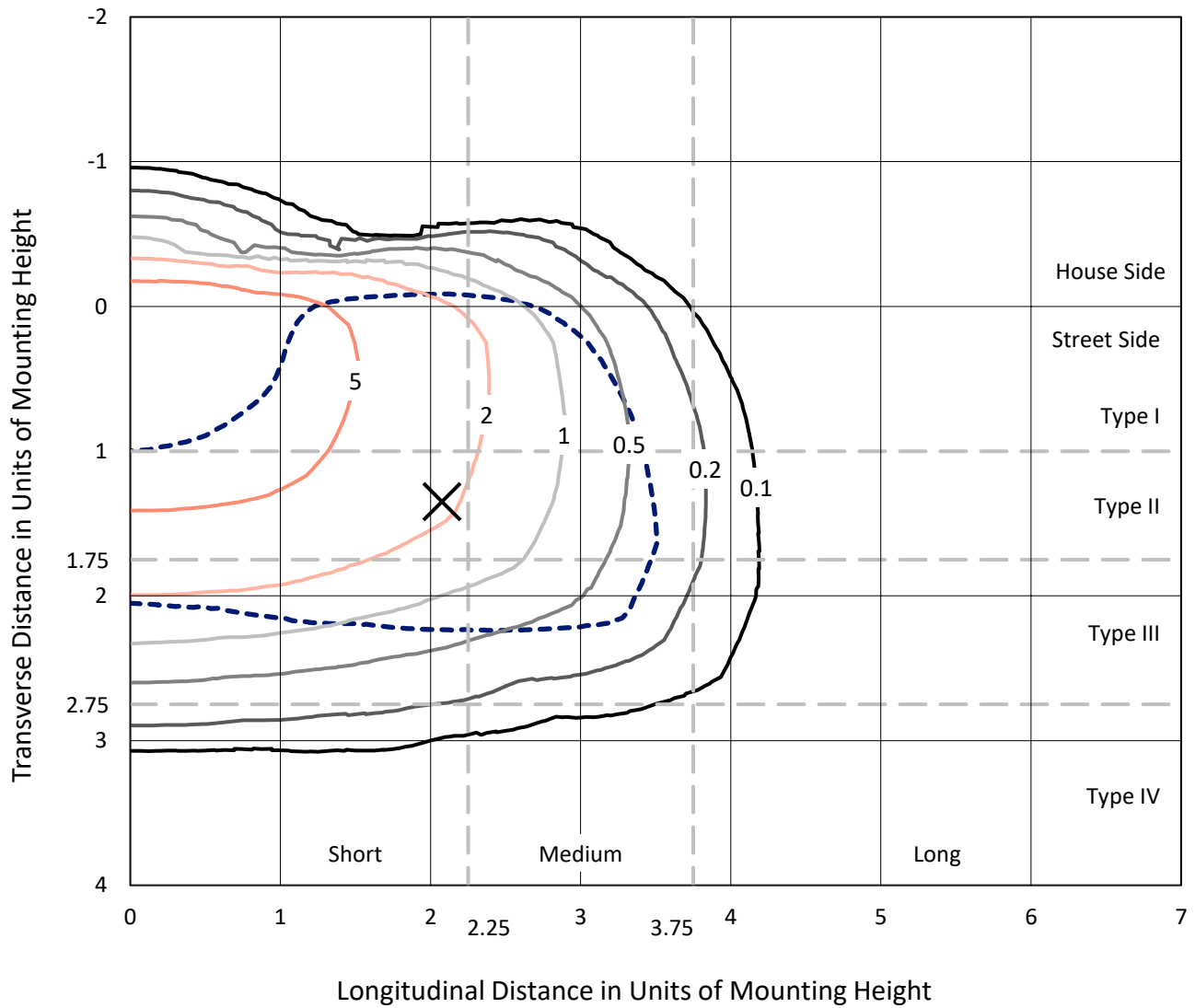
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

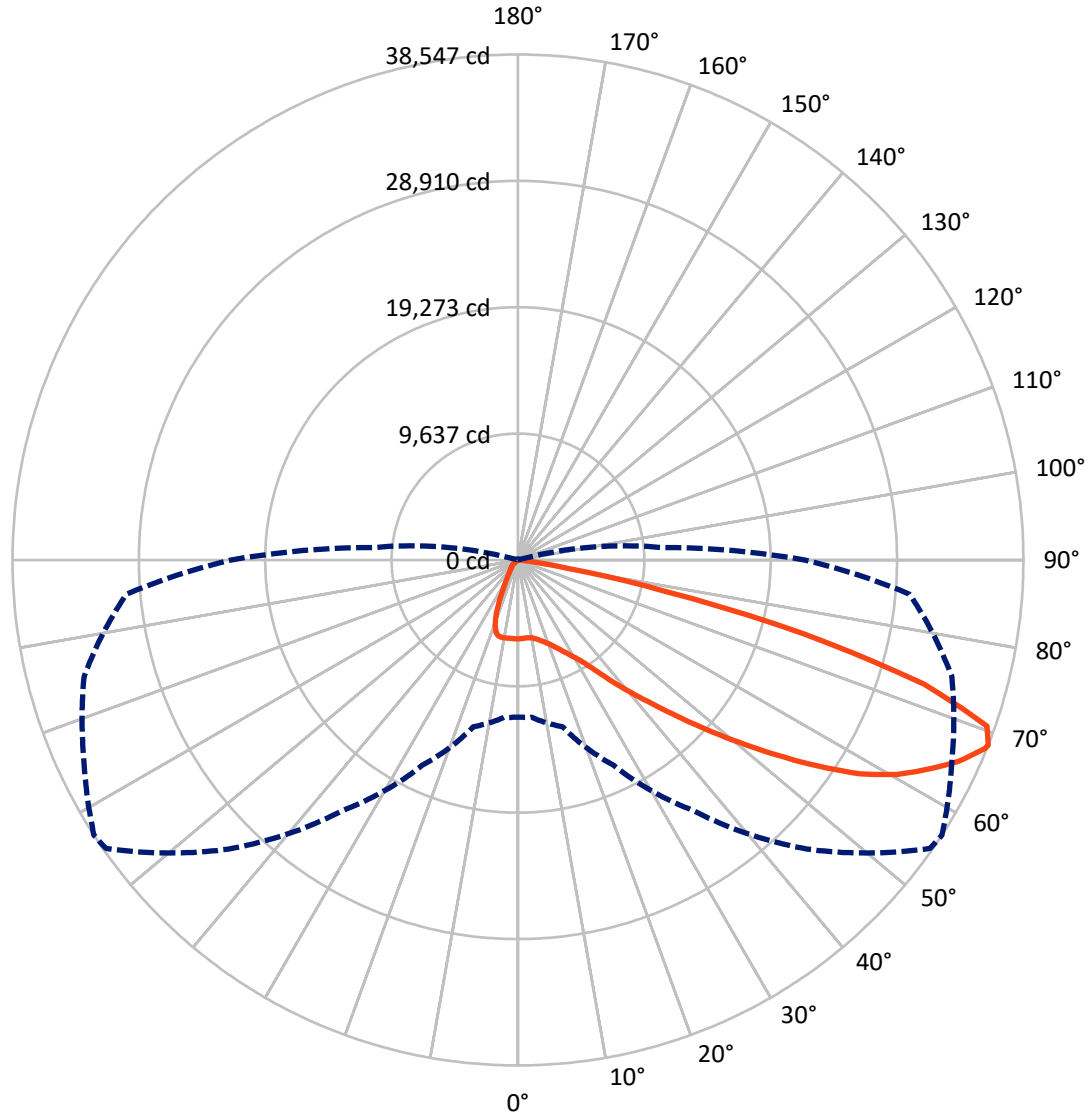
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 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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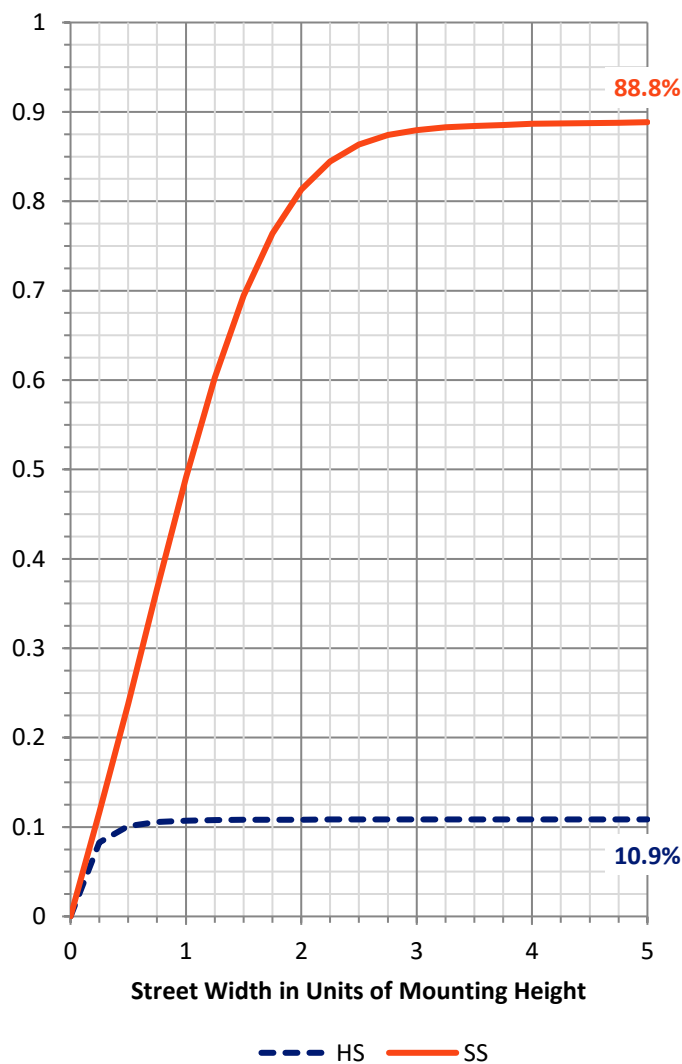
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5543.0	0.0	5543.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	45006.0	0.0	45006.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	50549.0	0.0	50549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.1	1.1
10°-20°	1557.7	3.1
20°-30°	2687.2	5.3
30°-40°	4637.9	9.2
40°-50°	7933.3	15.7
50°-60°	12692.4	25.1
60°-70°	14664.7	29.0
70°-80°	5603.6	11.1
80°-90°	210.1	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°	50549.0	100.0
0°-180°	50549.0	100.0

Coefficient of Utilization



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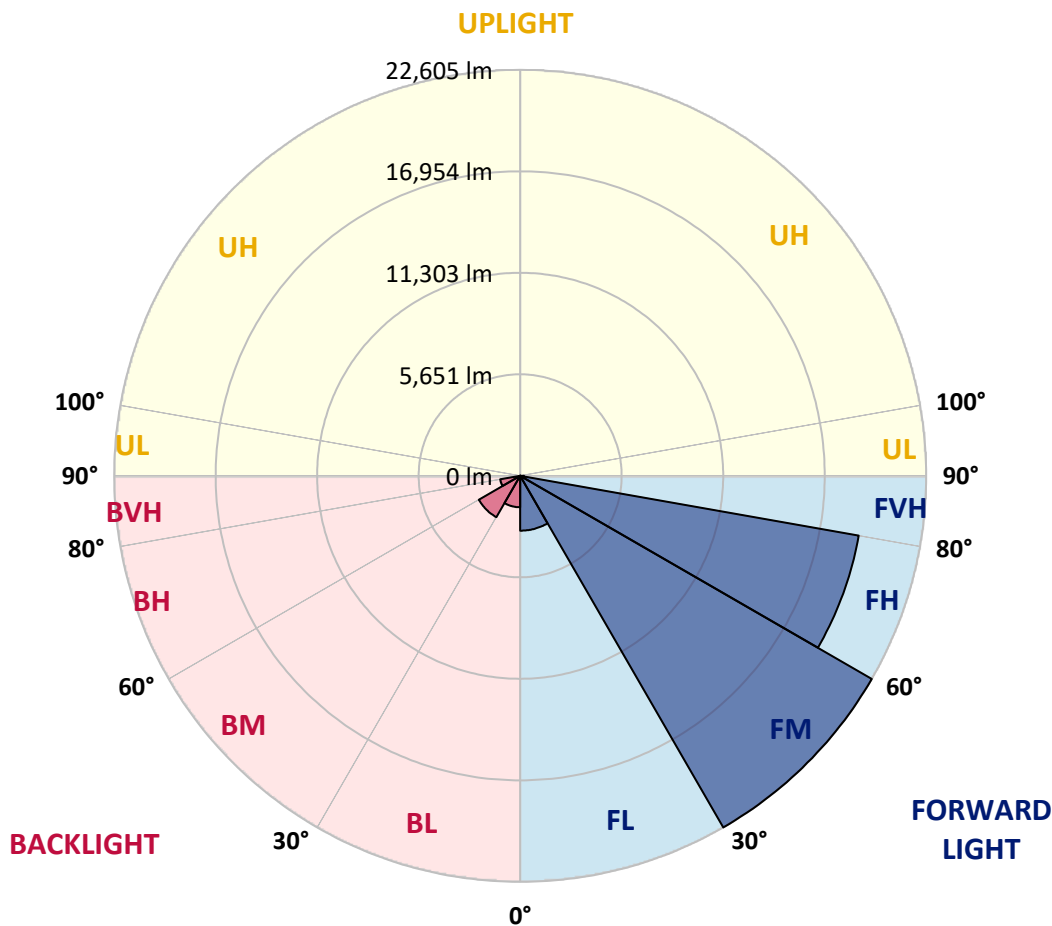
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3055.2	6.0			
FM (30°-60°)	22605.1	44.7			
FH (60°-80°)	19139.5	37.9			G5
FVH (80°-90°)	206.2	0.4			G2/225
BL (0°-30°)	1751.8	3.5	B3/2500		
BM (30°-60°)	2658.5	5.3	B3/5000		
BH (60°-80°)	1128.9	2.2	B3/2500		G3/2500
BVH (80°-90°)	3.8	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°	6006.6	6006.6	6006.6	6006.6	6006.6	6006.6	6006.6	6006.6	6006.6	6006.6	6006.6
2.5°	5865.5	5891.8	5910.9	5922.9	5937.2	5968.3	5977.9	5992.2	5999.4	5999.4	6016.1
5°	5633.7	5662.4	5703.0	5736.5	5803.4	5889.4	5951.6	5975.5	6018.5	6056.7	6078.3
7.5°	5418.6	5452.0	5499.8	5578.7	5693.4	5832.1	5961.1	5994.6	6078.3	6159.5	6200.2
10°	5279.9	5306.2	5368.4	5480.7	5631.3	5824.9	6006.6	6047.2	6190.6	6326.8	6403.3
12.5°	5232.1	5256.0	5320.6	5447.2	5633.7	5860.8	6111.7	6171.5	6381.8	6580.2	6687.8
15°	5301.4	5306.2	5375.5	5495.1	5679.1	5949.2	6286.2	6357.9	6623.2	6881.4	7015.2
17.5°	5569.1	5547.6	5583.5	5636.1	5781.9	6066.3	6470.3	6577.8	6931.6	7235.1	7361.8
20°	6238.4	6238.4	6157.1	6013.7	6016.1	6248.0	6718.8	6840.7	7273.4	7624.7	7739.4
22.5°	7383.3	7361.8	7199.3	6847.9	6525.2	6561.1	7022.4	7180.1	7684.5	8059.7	8098.0
25°	8760.1	8733.8	8482.8	7988.0	7428.7	7067.8	7433.5	7615.2	8174.5	8506.7	8427.8
27.5°	10218.1	10196.6	9948.0	9333.7	8537.8	7875.7	7923.5	8095.6	8674.0	9001.5	8750.5
30°	11630.7	11637.8	11391.7	10760.6	9859.5	8905.9	8544.9	8645.3	9159.2	9491.5	9132.9
32.5°	12974.0	12983.5	12770.8	12065.7	11224.3	10103.3	9405.4	9379.1	9723.3	10050.8	9639.6
35°	14171.5	14195.4	14049.6	13502.2	12610.7	11437.1	10521.6	10459.5	10524.0	10894.5	10416.5
37.5°	15325.9	15340.3	15230.3	14769.0	14023.3	12902.3	11931.8	11843.4	11704.8	11989.2	11441.9
40°	16590.3	16554.5	16427.8	16009.5	15368.9	14520.4	13447.2	13294.3	13052.8	13306.2	12789.9
42.5°	17766.3	17725.7	17747.2	17273.9	16733.7	16184.0	15213.6	14950.7	14809.6	15101.2	14443.9
45°	19236.3	19214.8	19286.5	18875.4	18437.9	18038.8	17238.1	16951.2	16889.1	17230.9	16444.5
47.5°	20687.1	20739.7	20962.0	20787.5	20610.6	20259.3	19382.1	19253.0	19291.2	19704.7	18555.1
50°	21896.6	21958.7	22568.2	22769.0	23024.7	22819.2	21939.6	21860.7	22011.3	22384.2	20825.7
52.5°	22771.4	22898.0	23655.7	24580.7	25512.9	25651.5	24774.3	24702.6	24905.8	24963.2	22580.1
55°	23378.5	23490.8	24348.9	26041.1	27939.0	28536.5	27991.5	27714.3	27676.0	27109.6	24425.4
57.5°	23486.0	23474.1	24707.4	26985.3	29841.6	31383.2	31039.0	30766.6	29982.6	29093.4	26540.7
60°	22878.9	22948.2	24380.0	27312.7	31036.7	33536.8	33563.1	33209.3	31987.9	31022.3	28591.5
62.5°	21009.8	21291.8	22737.9	26454.7	31022.3	34404.4	35413.1	35143.0	33682.6	32602.2	30671.0
65°	17979.0	18079.4	19458.6	23514.7	28926.1	34041.1	37079.1	36978.7	35209.9	34136.7	31739.4
67.5°	13129.3	12911.8	14360.3	18516.8	24489.9	31923.4	38274.2	38400.8	36388.3	34452.2	30601.6
68°	11982.0	12046.6	13174.7	17281.1	23328.3	31175.3	38353.0	38546.6	36505.4	34246.7	29980.2
70°	7141.9	7266.2	8272.5	11898.4	17747.2	26942.3	37502.1	37944.3	35807.5	32126.6	25931.2
72.5°	1823.7	1971.9	2923.2	5325.3	10136.8	18982.9	31658.1	32406.2	31089.2	26062.7	17505.8
75°	750.5	788.8	1044.5	1754.4	3776.5	8552.1	20866.4	22467.8	21552.4	15603.2	7911.5
77.5°	518.7	545.0	671.6	972.8	1634.9	2899.3	10230.0	11386.9	10258.7	5325.3	1725.7
80°	372.9	394.4	480.4	647.7	939.3	1035.0	3334.3	3855.4	3061.8	1168.8	427.8
82.5°	222.3	239.0	358.5	461.3	571.3	494.8	829.4	941.7	886.8	580.8	191.2
85°	109.9	129.1	241.4	329.8	308.3	207.9	253.4	282.0	349.0	353.7	102.8
87.5°	7.2	14.3	141.0	198.4	86.0	47.8	74.1	90.8	124.3	174.5	43.0
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°	6006.6	6006.6	6006.6	6006.6	6006.6	6006.6	6006.6	6006.6	6006.6	6006.6	6006.6
2.5°	6023.3	6025.7	6008.9	6001.8	6006.6	5977.9	5965.9	5970.7	5970.7	5977.9	5965.9
5°	6083.0	6083.0	6054.4	6016.1	5994.6	5939.6	5903.8	5894.2	5887.0	5882.3	5872.7
7.5°	6212.1	6197.8	6147.6	6063.9	5992.2	5872.7	5781.9	5734.1	5710.2	5700.6	5693.4
10°	6420.1	6393.8	6310.1	6154.7	5989.8	5777.1	5578.7	5437.7	5320.6	5272.8	5244.1
12.5°	6699.7	6661.5	6520.4	6262.3	5973.1	5581.1	5150.9	4737.4	4352.5	4194.8	4115.9
15°	7022.4	6967.4	6745.1	6353.1	5875.1	5138.9	4204.3	3480.1	2947.1	2746.3	2660.3
17.5°	7349.8	7278.1	6941.1	6410.5	5581.1	4223.5	2949.5	2227.7	1871.5	1775.9	1742.5
20°	7679.7	7574.5	7110.8	6367.5	4916.6	3045.1	1945.6	1627.7	1524.9	1496.3	1486.7
22.5°	7992.8	7830.3	7263.8	6200.2	3893.6	2043.6	1539.3	1438.9	1405.4	1388.7	1383.9
25°	8265.3	8038.2	7397.6	5683.9	2755.9	1544.1	1386.3	1352.8	1309.8	1278.8	1281.1
27.5°	8521.0	8246.2	7478.9	4833.0	1838.1	1319.4	1283.5	1238.1	1159.2	1113.8	1113.8
30°	8829.4	8523.4	7538.7	3719.1	1352.8	1166.4	1137.7	1068.4	960.9	901.1	901.1
32.5°	9293.1	8944.1	7500.4	2610.1	1121.0	1025.4	958.5	862.9	745.7	688.4	686.0
35°	10003.0	9594.2	7227.9	1711.4	989.5	891.5	784.0	666.9	564.1	516.3	513.9
37.5°	10959.0	10464.3	6616.1	1223.8	886.8	767.3	638.2	509.1	432.6	401.6	399.2
40°	12199.5	11475.3	5741.2	991.9	791.2	647.7	492.4	394.4	341.8	317.9	320.3
42.5°	13688.6	12558.1	4691.9	855.7	697.9	533.0	384.8	310.7	277.3	260.5	255.8
45°	15342.6	13626.5	3592.5	762.5	604.7	430.2	301.2	246.2	219.9	210.3	210.3
47.5°	17161.6	14666.2	2629.2	681.2	504.3	332.2	241.4	200.8	179.3	172.1	169.7
50°	18813.2	15388.1	1895.4	595.2	413.5	262.9	196.0	167.3	153.0	143.4	143.4
52.5°	20190.0	15615.1	1395.9	501.9	334.6	210.3	162.5	143.4	129.1	121.9	121.9
55°	21401.8	15521.9	1037.3	413.5	270.1	172.1	138.6	121.9	109.9	102.8	102.8
57.5°	22563.4	15220.7	774.4	337.0	217.5	138.6	117.1	102.8	90.8	86.0	86.0
60°	23512.3	14718.8	576.0	272.5	174.5	112.3	98.0	83.7	74.1	66.9	66.9
62.5°	24282.0	14164.3	423.1	224.7	138.6	88.4	76.5	69.3	55.0	47.8	47.8
65°	24286.7	13244.1	317.9	186.4	107.6	69.3	57.4	55.0	35.9	28.7	26.3
67.5°	22530.0	11417.9	243.8	160.1	83.7	52.6	43.0	45.4	19.1	12.0	9.6
68°	21891.8	10954.3	229.5	157.8	78.9	50.2	40.6	45.4	16.7	9.6	7.2
70°	18457.1	8714.6	184.0	153.0	69.3	38.2	33.5	45.4	14.3	7.2	4.8
72.5°	11805.2	5057.6	136.2	121.9	52.6	28.7	21.5	40.6	14.3	4.8	2.4
75°	5024.2	1568.0	93.2	86.0	31.1	21.5	14.3	26.3	9.6	2.4	0.0
77.5°	1058.9	353.7	55.0	52.6	21.5	14.3	9.6	7.2	2.4	0.0	0.0
80°	272.5	102.8	28.7	26.3	12.0	7.2	4.8	0.0	0.0	0.0	0.0
82.5°	86.0	40.6	16.7	12.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.0	23.9	9.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.9	7.2	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)