

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: P322253

Luminaire Tested: **GAN-SA9C-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322253
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-SA9C-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA 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: 46079 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

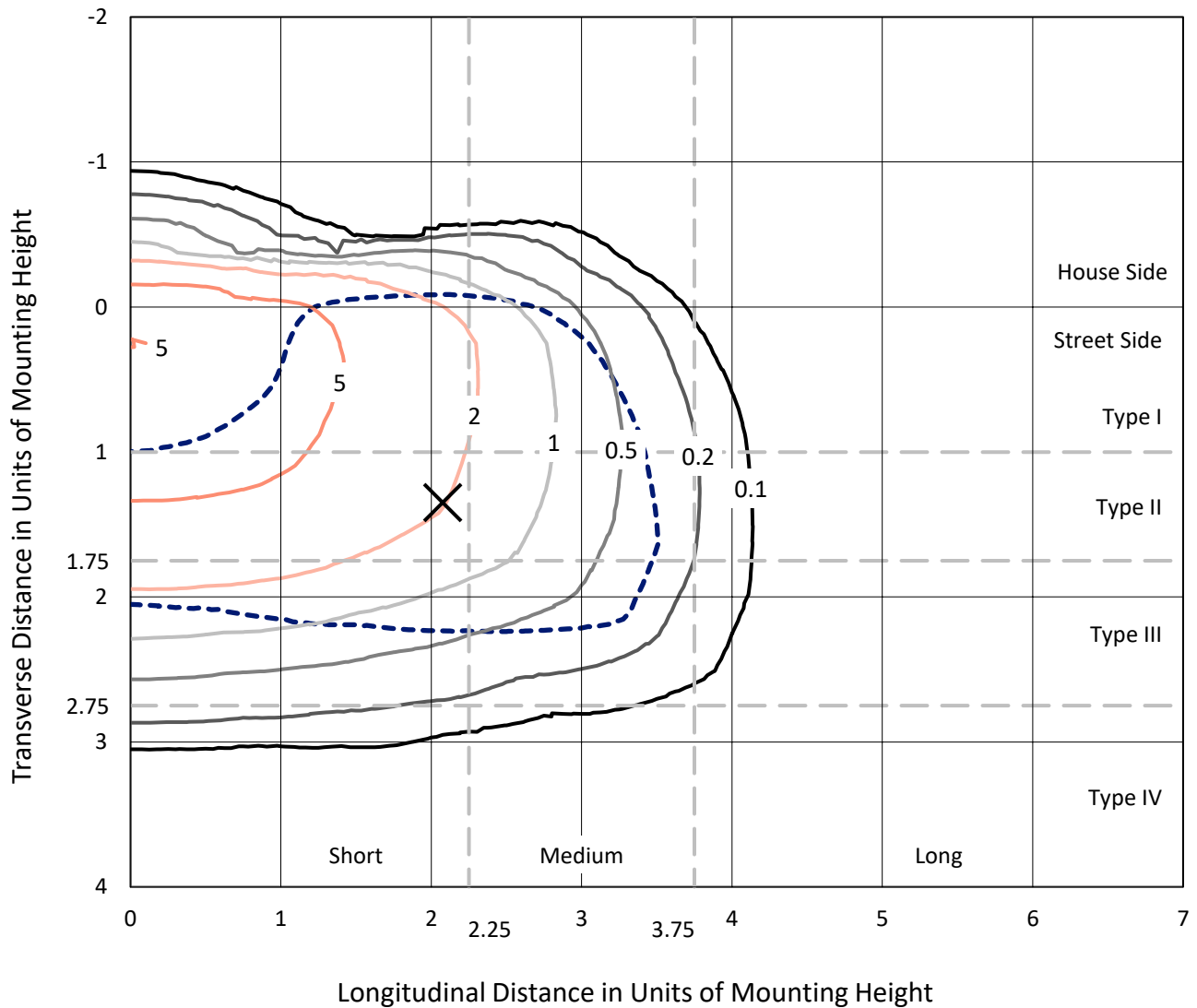
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

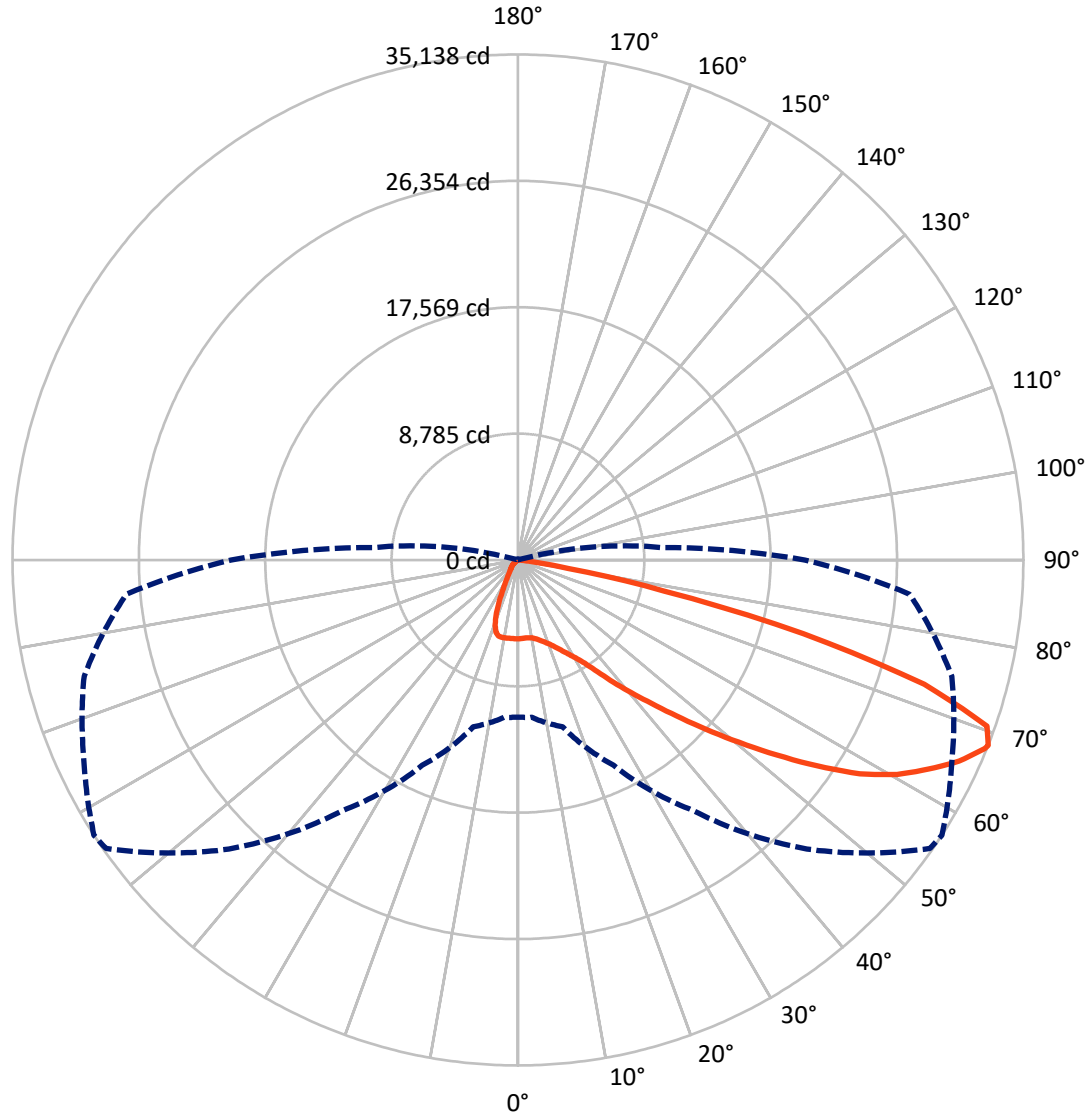
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 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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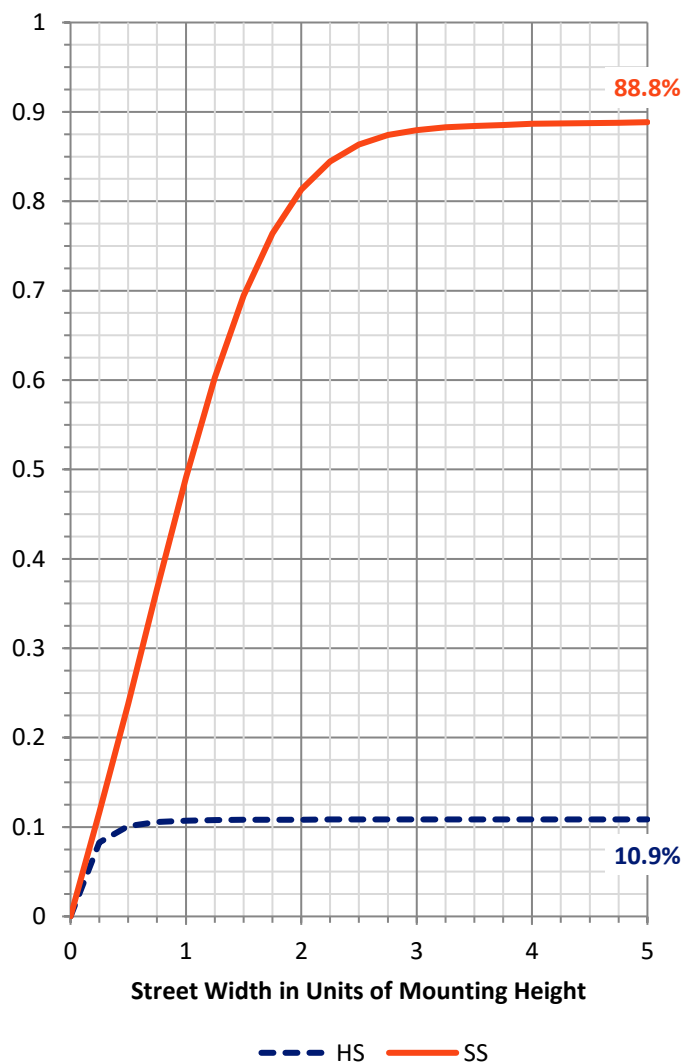
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5052.8	0.0	5052.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	41026.2	0.0	41026.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	46079.0	0.0	46079.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.4	1.1
10°-20°	1419.9	3.1
20°-30°	2449.5	5.3
30°-40°	4227.8	9.2
40°-50°	7231.7	15.7
50°-60°	11570.1	25.1
60°-70°	13367.9	29.0
70°-80°	5108.1	11.1
80°-90°	191.5	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°	46079.0	100.0
0°-180°	46079.0	100.0

Coefficient of Utilization



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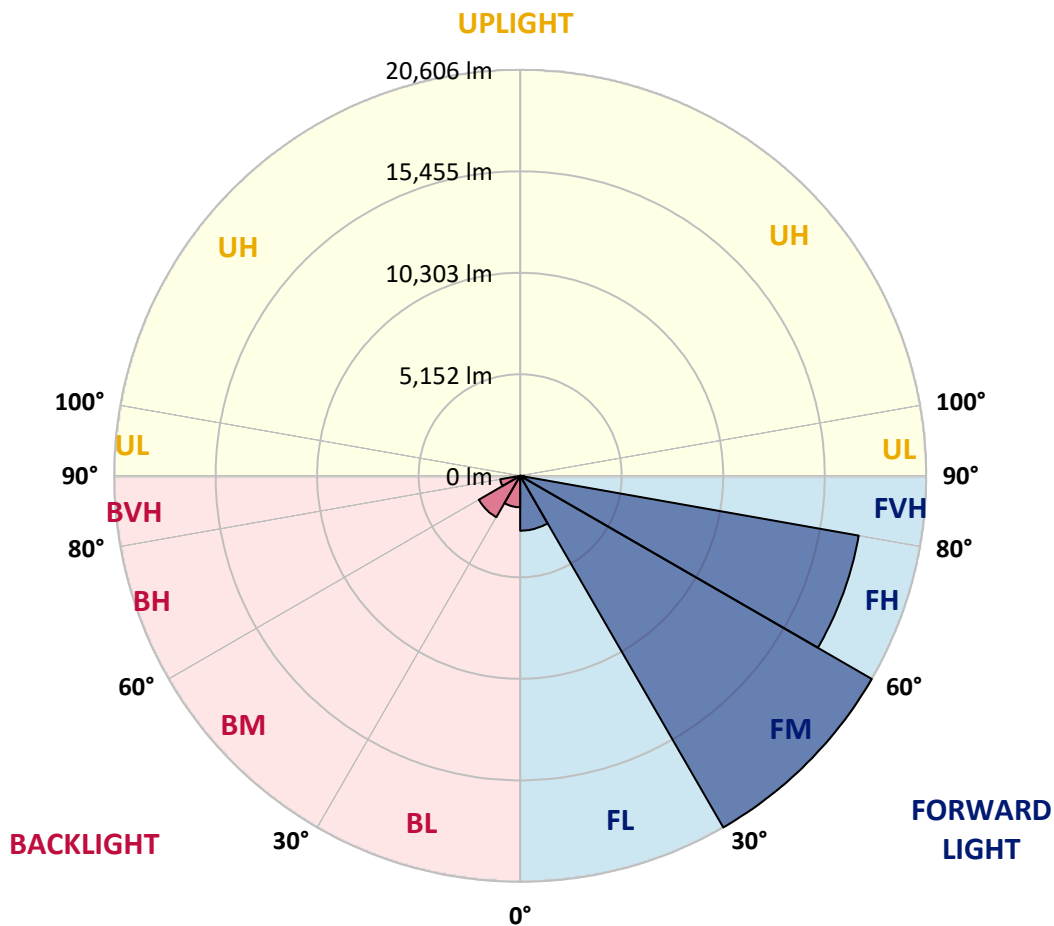
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2785.0	6.0			
FM (30°-60°)	20606.1	44.7			
FH (60°-80°)	17447.0	37.9			G5
FVH (80°-90°)	188.0	0.4			G2/225
BL (0°-30°)	1596.9	3.5	B3/2500		
BM (30°-60°)	2423.4	5.3	B2/2500		
BH (60°-80°)	1029.0	2.2	B3/2500		G3/2500
BVH (80°-90°)	3.5	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°	5475.4	5475.4	5475.4	5475.4	5475.4	5475.4	5475.4	5475.4	5475.4	5475.4	5475.4
2.5°	5346.8	5370.8	5388.2	5399.1	5412.2	5440.5	5449.3	5462.3	5468.9	5468.9	5484.1
5°	5135.5	5161.6	5198.7	5229.2	5290.2	5368.6	5425.3	5447.1	5486.3	5521.2	5540.8
7.5°	4939.4	4969.9	5013.5	5085.4	5190.0	5316.3	5434.0	5464.5	5540.8	5614.8	5651.9
10°	4813.0	4837.0	4893.7	4996.1	5133.3	5309.8	5475.4	5512.4	5643.2	5767.4	5837.1
12.5°	4769.5	4791.2	4850.1	4965.6	5135.5	5342.5	5571.3	5625.7	5817.5	5998.3	6096.4
15°	4832.6	4837.0	4900.2	5009.1	5176.9	5423.1	5730.3	5795.7	6037.5	6272.9	6394.9
17.5°	5076.7	5057.1	5089.7	5137.7	5270.6	5529.9	5898.1	5996.1	6318.6	6595.3	6710.8
20°	5686.7	5686.7	5612.7	5481.9	5484.1	5695.5	6124.7	6235.8	6630.2	6950.5	7055.1
22.5°	6730.4	6710.8	6562.6	6242.3	5948.2	5980.9	6401.4	6545.2	7004.9	7347.0	7381.9
25°	7985.4	7961.4	7732.7	7281.7	6771.8	6442.8	6776.2	6941.8	7451.6	7754.5	7682.6
27.5°	9314.5	9294.9	9068.3	8508.3	7782.8	7179.2	7222.8	7379.7	7907.0	8205.5	7976.7
30°	10602.2	10608.7	10384.3	9809.1	8987.7	8118.3	7789.3	7880.8	8349.3	8652.1	8325.3
32.5°	11826.7	11835.4	11641.5	10998.7	10231.8	9209.9	8573.7	8549.7	8863.5	9162.0	8787.2
35°	12918.3	12940.1	12807.2	12308.2	11495.5	10425.7	9591.2	9534.6	9593.4	9931.1	9495.3
37.5°	13970.7	13983.7	13883.5	13463.0	12783.2	11761.3	10876.7	10796.1	10669.7	10929.0	10430.1
40°	15123.3	15090.6	14975.1	14593.8	14009.9	13236.4	12258.1	12118.7	11898.6	12129.5	11658.9
42.5°	16195.2	16158.2	16177.8	15746.4	15254.0	14752.9	13868.3	13628.6	13500.0	13765.8	13166.7
45°	17535.2	17515.6	17581.0	17206.2	16807.5	16443.6	15713.7	15452.3	15395.6	15707.2	14990.4
47.5°	18857.8	18905.7	19108.3	18949.3	18788.1	18467.8	17668.1	17550.5	17585.3	17962.3	16914.3
50°	19960.3	20016.9	20572.5	20755.5	20988.7	20801.3	19999.5	19927.6	20064.8	20404.7	18984.1
52.5°	20757.7	20873.2	21563.9	22407.1	23256.8	23383.2	22583.6	22518.2	22703.4	22755.7	20583.4
55°	21311.1	21413.5	22195.7	23738.4	25468.3	26013.1	25516.3	25263.5	25228.7	24712.3	22265.5
57.5°	21409.2	21398.3	22522.6	24599.0	27202.7	28608.0	28294.3	28045.9	27331.2	26520.7	24193.7
60°	20855.8	20918.9	22224.1	24897.5	28292.1	30571.2	30595.1	30272.7	29159.3	28279.0	26063.2
62.5°	19151.9	19409.0	20727.2	24115.3	28279.0	31362.1	32281.5	32035.3	30704.1	29719.2	27958.7
65°	16389.2	16480.7	17737.9	21435.3	26368.2	31030.9	33800.2	33708.7	32096.3	31118.1	28932.7
67.5°	11968.3	11770.0	13090.4	16879.4	22324.3	29100.5	34889.6	35005.1	33170.5	31405.7	27895.6
68°	10922.5	10981.3	12009.7	15752.9	21265.4	28418.5	34961.5	35138.0	33277.3	31218.3	27329.1
70°	6510.3	6623.6	7540.9	10846.2	16177.8	24559.8	34185.8	34588.9	32641.1	29285.7	23638.1
72.5°	1662.4	1797.5	2664.7	4854.4	9240.4	17304.3	28858.6	29540.6	28340.0	23758.0	15957.8
75°	684.2	719.0	952.1	1599.3	3442.6	7795.9	19021.2	20481.0	19646.5	14223.4	7211.9
77.5°	472.8	496.8	612.3	886.8	1490.3	2642.9	9325.4	10379.9	9351.5	4854.4	1573.1
80°	339.9	359.5	437.9	590.5	856.3	943.4	3039.5	3514.5	2791.1	1065.4	390.0
82.5°	202.6	217.9	326.8	420.5	520.7	451.0	756.1	858.5	808.3	529.5	174.3
85°	100.2	117.7	220.1	300.7	281.1	189.6	231.0	257.1	318.1	322.5	93.7
87.5°	6.5	13.1	128.6	180.8	78.4	43.6	67.5	82.8	113.3	159.1	39.2
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°	5475.4	5475.4	5475.4	5475.4	5475.4	5475.4	5475.4	5475.4	5475.4	5475.4	5475.4
2.5°	5490.7	5492.8	5477.6	5471.0	5475.4	5449.3	5438.4	5442.7	5442.7	5449.3	5438.4
5°	5545.1	5545.1	5519.0	5484.1	5464.5	5414.4	5381.7	5373.0	5366.5	5362.1	5353.4
7.5°	5662.8	5649.7	5604.0	5527.7	5462.3	5353.4	5270.6	5227.0	5205.2	5196.5	5190.0
10°	5852.3	5828.4	5752.1	5610.5	5460.1	5266.2	5085.4	4956.8	4850.1	4806.5	4780.4
12.5°	6107.3	6072.4	5943.8	5708.5	5444.9	5087.6	4695.4	4318.4	3967.6	3823.8	3751.9
15°	6401.4	6351.3	6148.7	5791.3	5355.6	4684.5	3832.6	3172.4	2686.5	2503.5	2425.0
17.5°	6699.9	6634.5	6327.3	5843.6	5087.6	3850.0	2688.7	2030.7	1706.0	1618.9	1588.4
20°	7000.6	6904.7	6482.0	5804.4	4481.9	2775.8	1773.6	1483.8	1390.1	1363.9	1355.2
22.5°	7286.0	7137.8	6621.5	5651.9	3549.3	1862.9	1403.2	1311.7	1281.2	1265.9	1261.5
25°	7534.4	7327.4	6743.5	5181.3	2512.2	1407.5	1263.7	1233.2	1194.0	1165.7	1167.9
27.5°	7767.5	7517.0	6817.6	4405.6	1675.5	1202.7	1170.0	1128.6	1056.7	1015.3	1015.3
30°	8048.6	7769.7	6872.0	3390.3	1233.2	1063.3	1037.1	973.9	875.9	821.4	821.4
32.5°	8471.3	8153.2	6837.2	2379.3	1021.9	934.7	873.7	786.6	679.8	627.5	625.3
35°	9118.4	8745.8	6588.8	1560.0	902.0	812.7	714.7	607.9	514.2	470.6	468.4
37.5°	9989.9	9538.9	6031.0	1115.6	808.3	699.4	581.7	464.1	394.4	366.0	363.9
40°	11120.7	10460.6	5233.5	904.2	721.2	590.5	448.8	359.5	311.6	289.8	292.0
42.5°	12478.2	11447.6	4277.0	780.0	636.2	485.9	350.8	283.2	252.7	237.5	233.1
45°	13985.9	12421.5	3274.8	695.0	551.2	392.2	274.5	224.4	200.5	191.7	191.7
47.5°	15644.0	13369.3	2396.7	621.0	459.7	302.9	220.1	183.0	163.4	156.9	154.7
50°	17149.6	14027.3	1727.8	542.5	376.9	239.7	178.7	152.5	139.4	130.7	130.7
52.5°	18404.6	14234.3	1272.4	457.6	305.0	191.7	148.2	130.7	117.7	111.1	111.1
55°	19509.2	14149.3	945.6	376.9	246.2	156.9	126.4	111.1	100.2	93.7	93.7
57.5°	20568.2	13874.8	705.9	307.2	198.3	126.4	106.8	93.7	82.8	78.4	78.4
60°	21433.2	13417.2	525.1	248.4	159.1	102.4	89.3	76.3	67.5	61.0	61.0
62.5°	22134.7	12911.7	385.7	204.8	126.4	80.6	69.7	63.2	50.1	43.6	43.6
65°	22139.1	12072.9	289.8	169.9	98.0	63.2	52.3	50.1	32.7	26.1	24.0
67.5°	20537.7	10408.3	222.2	146.0	76.3	47.9	39.2	41.4	17.4	10.9	8.7
68°	19955.9	9985.6	209.2	143.8	71.9	45.8	37.0	41.4	15.3	8.7	6.5
70°	16824.9	7944.0	167.8	139.4	63.2	34.9	30.5	41.4	13.1	6.5	4.4
72.5°	10761.2	4610.4	124.2	111.1	47.9	26.1	19.6	37.0	13.1	4.4	2.2
75°	4579.9	1429.3	85.0	78.4	28.3	19.6	13.1	24.0	8.7	2.2	0.0
77.5°	965.2	322.5	50.1	47.9	19.6	13.1	8.7	6.5	2.2	0.0	0.0
80°	248.4	93.7	26.1	24.0	10.9	6.5	4.4	0.0	0.0	0.0	0.0
82.5°	78.4	37.0	15.3	10.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.2	21.8	8.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.8	6.5	2.2	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)