

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: P322293

Luminaire Tested: **GAN-SA9C-750-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322293
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-750-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 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: 46078 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

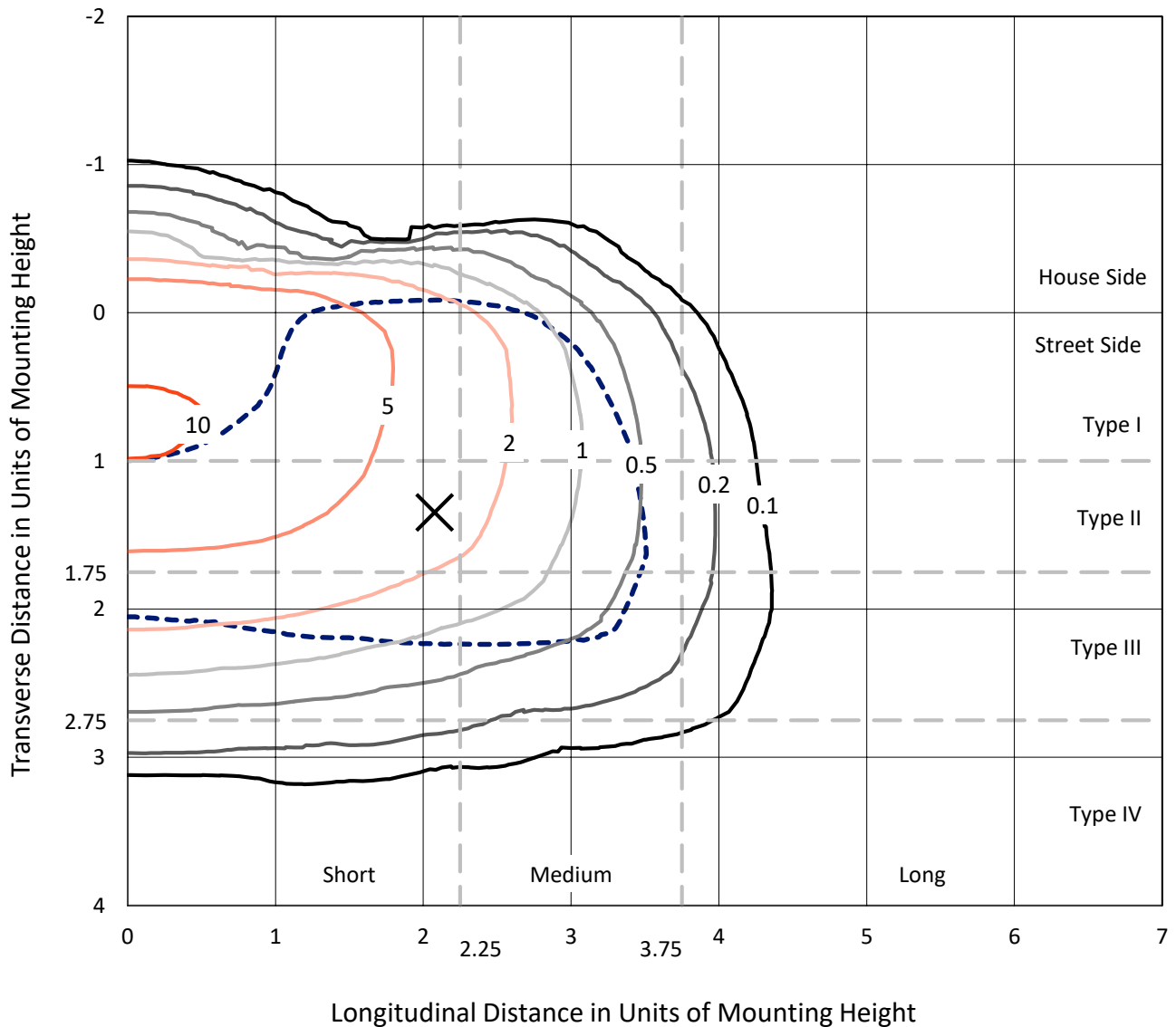
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

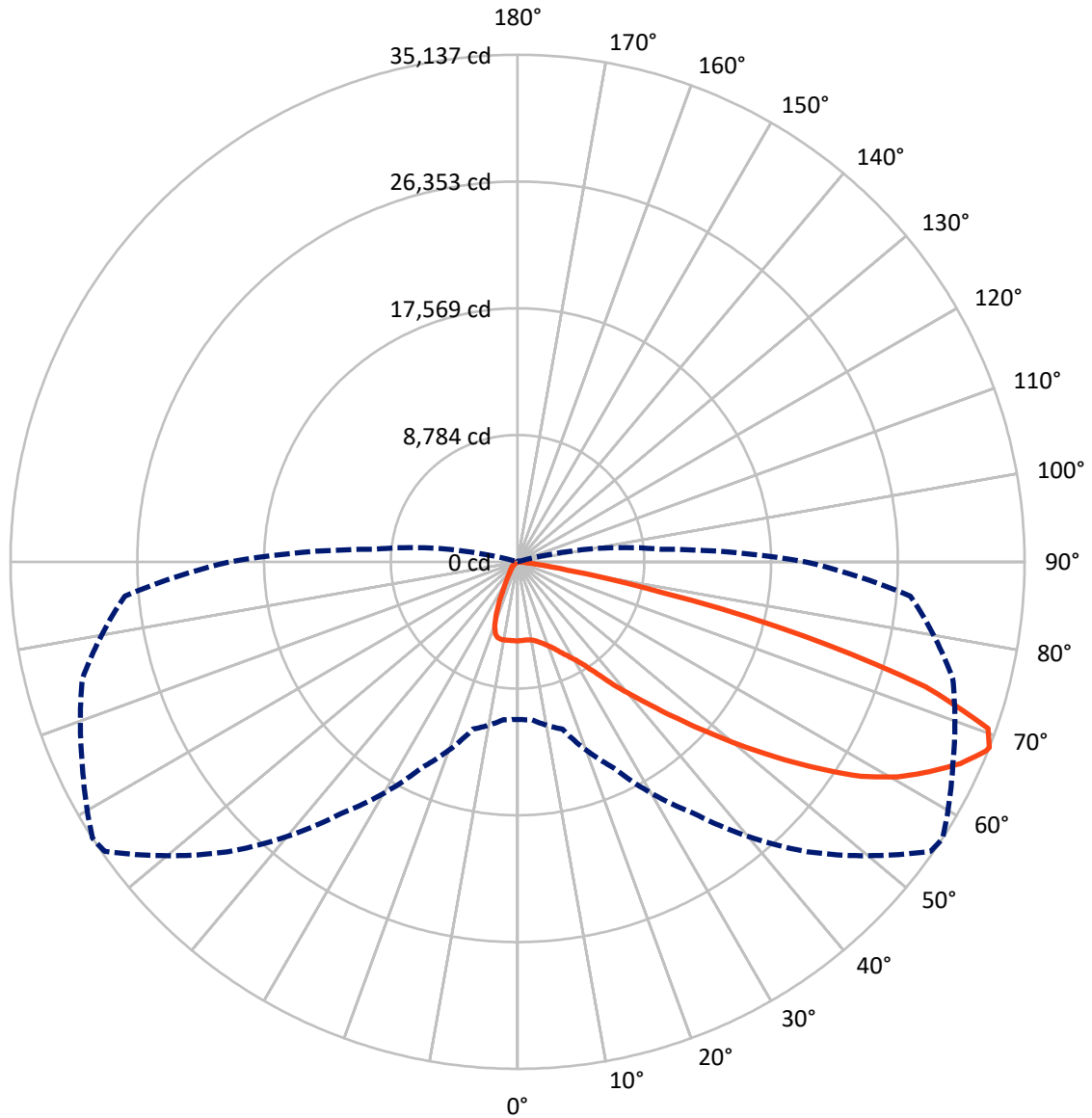
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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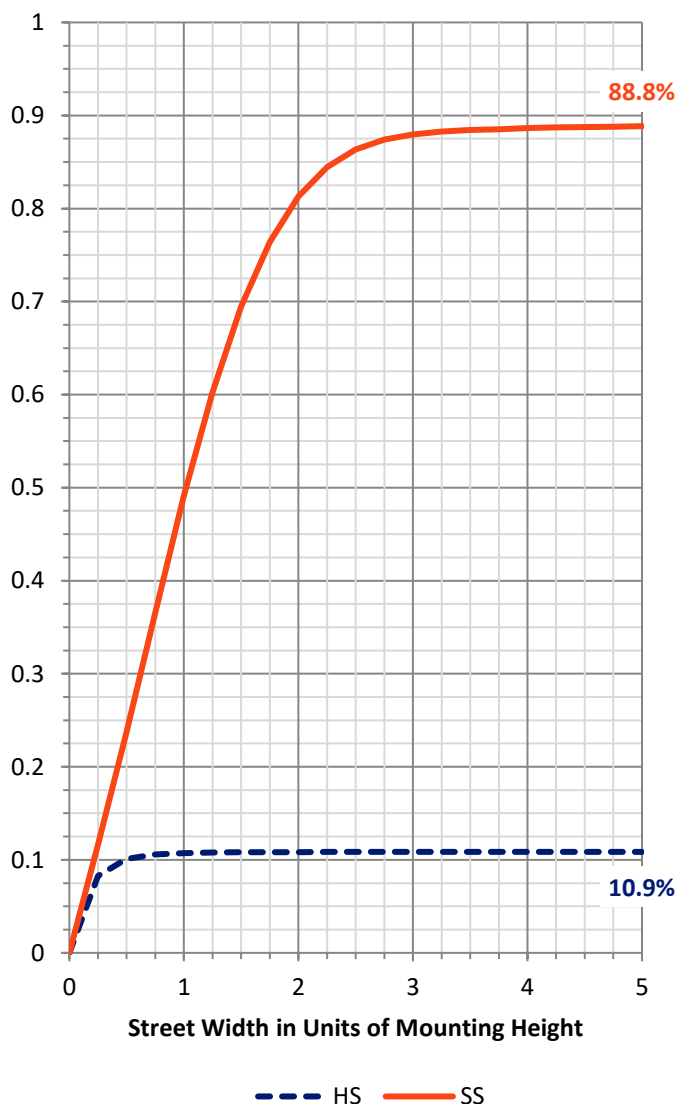
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5052.7	0.0	5052.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	41025.3	0.0	41025.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	46078.0	0.0	46078.0
	% 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°	4227.7	9.2
40°-50°	7231.6	15.7
50°-60°	11569.8	25.1
60°-70°	13367.7	29.0
70°-80°	5108.0	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°	46078.0	100.0
0°-180°	46078.0	100.0

Coefficient of Utilization



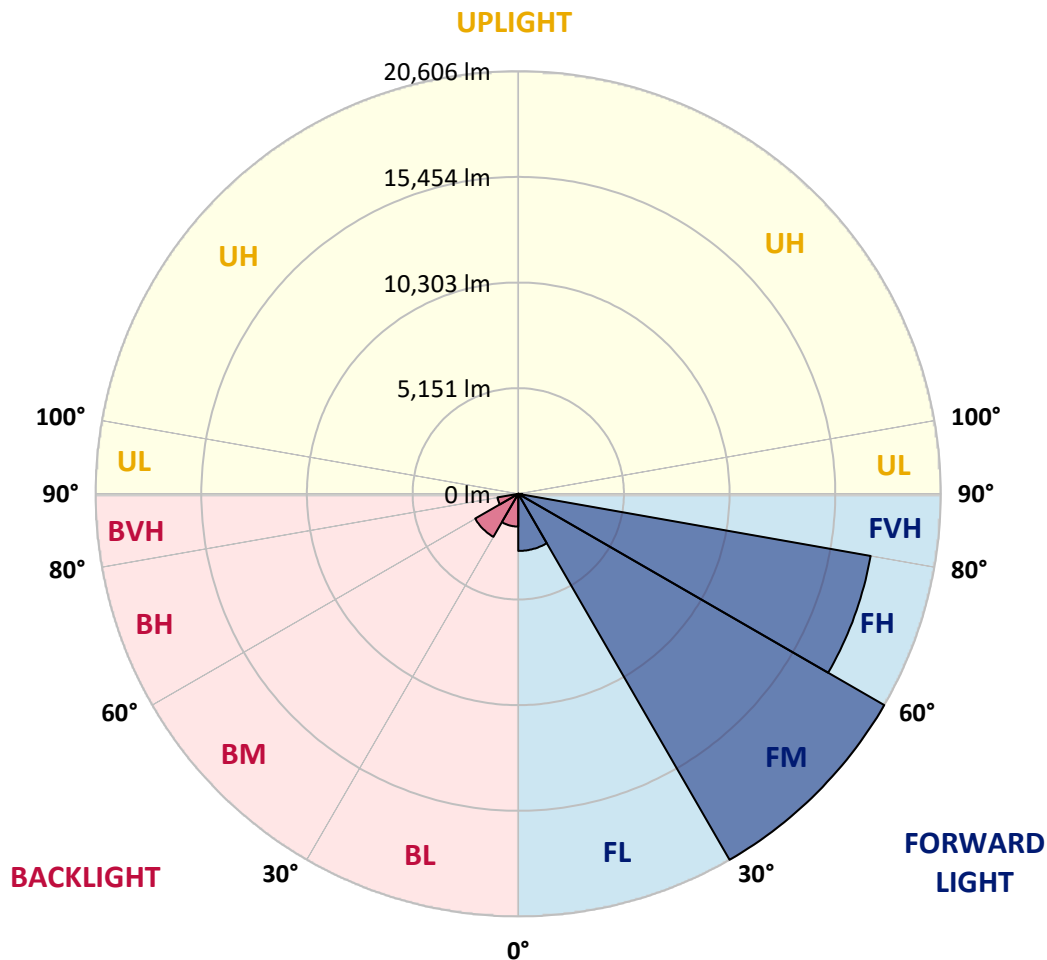
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2785.0	6.0			
FM (30°-60°)	20605.7	44.7			
FH (60°-80°)	17446.6	37.9			G5
FVH (80°-90°)	188.0	0.4			G2/225
BL (0°-30°)	1596.8	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°	5475.3	5475.3	5475.3	5475.3	5475.3	5475.3	5475.3	5475.3	5475.3	5475.3	5475.3
2.5°	5346.7	5370.7	5388.1	5399.0	5412.1	5440.4	5449.1	5462.2	5468.7	5468.7	5484.0
5°	5135.4	5161.5	5198.6	5229.1	5290.1	5368.5	5425.2	5447.0	5486.2	5521.0	5540.6
7.5°	4939.3	4969.8	5013.4	5085.3	5189.9	5316.2	5433.9	5464.4	5540.6	5614.7	5651.8
10°	4812.9	4836.9	4893.5	4995.9	5133.2	5309.7	5475.3	5512.3	5643.0	5767.2	5837.0
12.5°	4769.4	4791.1	4850.0	4965.4	5135.4	5342.4	5571.1	5625.6	5817.4	5998.2	6096.2
15°	4832.5	4836.9	4900.1	5009.0	5176.8	5423.0	5730.2	5795.6	6037.4	6272.7	6394.7
17.5°	5076.6	5057.0	5089.6	5137.6	5270.5	5529.8	5898.0	5996.0	6318.5	6595.2	6710.7
20°	5686.6	5686.6	5612.5	5481.8	5484.0	5695.3	6124.6	6235.7	6630.0	6950.3	7054.9
22.5°	6730.3	6710.7	6562.5	6242.2	5948.1	5980.8	6401.3	6545.1	7004.8	7346.9	7381.7
25°	7985.2	7961.3	7732.5	7281.5	6771.7	6442.7	6776.0	6941.6	7451.4	7754.3	7682.4
27.5°	9314.3	9294.7	9068.1	8508.1	7782.6	7179.1	7222.7	7379.5	7906.8	8205.3	7976.5
30°	10602.0	10608.5	10384.1	9808.9	8987.5	8118.1	7789.1	7880.7	8349.1	8651.9	8325.1
32.5°	11826.4	11835.1	11641.2	10998.5	10231.6	9209.7	8573.5	8549.5	8863.3	9161.8	8787.0
35°	12918.0	12939.8	12806.9	12307.9	11495.3	10425.5	9591.0	9534.4	9593.2	9930.9	9495.1
37.5°	13970.4	13983.4	13883.2	13462.7	12782.9	11761.1	10876.5	10795.9	10669.5	10928.8	10429.8
40°	15122.9	15090.2	14974.8	14593.5	14009.6	13236.1	12257.8	12118.4	11898.3	12129.3	11658.7
42.5°	16194.9	16157.9	16177.5	15746.1	15253.7	14752.5	13868.0	13628.3	13499.7	13765.5	13166.4
45°	17534.8	17515.2	17580.6	17205.8	16807.1	16443.3	15713.4	15451.9	15395.3	15706.8	14990.0
47.5°	18857.4	18905.3	19107.9	18948.9	18787.6	18467.4	17667.7	17550.1	17585.0	17961.9	16913.9
50°	19959.8	20016.5	20572.1	20755.1	20988.2	20800.8	19999.0	19927.1	20064.4	20404.3	18983.7
52.5°	20757.3	20872.7	21563.4	22406.6	23256.3	23382.7	22583.1	22517.7	22702.9	22755.2	20583.0
55°	21310.7	21413.1	22195.3	23737.8	25467.8	26012.5	25515.7	25263.0	25228.1	24711.8	22265.0
57.5°	21408.7	21397.8	22522.1	24598.5	27202.1	28607.4	28293.7	28045.3	27330.7	26520.1	24193.2
60°	20855.3	20918.5	22223.6	24897.0	28291.5	30570.5	30594.5	30272.0	29158.7	28278.4	26062.6
62.5°	19151.5	19408.6	20726.8	24114.8	28278.4	31361.4	32280.8	32034.6	30703.4	29718.6	27958.1
65°	16388.8	16480.3	17737.5	21434.9	26367.6	31030.2	33799.5	33707.9	32095.6	31117.4	28932.1
67.5°	11968.1	11769.8	13090.1	16879.0	22323.8	29099.8	34888.8	35004.3	33169.8	31405.0	27895.0
68°	10922.2	10981.1	12009.5	15752.6	21264.9	28417.9	34960.7	35137.2	33276.5	31217.6	27328.5
70°	6510.2	6623.5	7540.8	10846.0	16177.5	24559.2	34185.1	34588.2	32640.3	29285.0	23637.6
72.5°	1662.4	1797.5	2664.7	4854.3	9240.2	17303.9	28858.0	29539.9	28339.4	23757.4	15957.4
75°	684.1	719.0	952.1	1599.2	3442.5	7795.7	19020.8	20480.6	19646.1	14223.1	7211.8
77.5°	472.8	496.8	612.2	886.8	1490.3	2642.9	9325.2	10379.7	9351.3	4854.3	1573.1
80°	339.9	359.5	437.9	590.5	856.3	943.4	3039.4	3514.4	2791.0	1065.4	390.0
82.5°	202.6	217.9	326.8	420.5	520.7	451.0	756.0	858.4	808.3	529.4	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	128.5	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°	5475.3	5475.3	5475.3	5475.3	5475.3	5475.3	5475.3	5475.3	5475.3	5475.3	5475.3
2.5°	5490.5	5492.7	5477.5	5470.9	5475.3	5449.1	5438.2	5442.6	5442.6	5449.1	5438.2
5°	5545.0	5545.0	5518.9	5484.0	5464.4	5414.3	5381.6	5372.9	5366.3	5362.0	5353.3
7.5°	5662.7	5649.6	5603.8	5527.6	5462.2	5353.3	5270.5	5226.9	5205.1	5196.4	5189.9
10°	5852.2	5828.2	5752.0	5610.4	5460.0	5266.1	5085.3	4956.7	4850.0	4806.4	4780.2
12.5°	6107.1	6072.3	5943.7	5708.4	5444.8	5087.5	4695.3	4318.3	3967.6	3823.8	3751.9
15°	6401.3	6351.2	6148.5	5791.2	5355.4	4684.4	3832.5	3172.3	2686.4	2503.4	2425.0
17.5°	6699.8	6634.4	6327.2	5843.5	5087.5	3849.9	2688.6	2030.6	1706.0	1618.8	1588.3
20°	7000.4	6904.6	6481.9	5804.3	4481.8	2775.8	1773.5	1483.8	1390.1	1363.9	1355.2
22.5°	7285.8	7137.7	6621.3	5651.8	3549.2	1862.9	1403.1	1311.6	1281.1	1265.9	1261.5
25°	7534.2	7327.2	6743.3	5181.1	2512.1	1407.5	1263.7	1233.2	1194.0	1165.6	1167.8
27.5°	7767.4	7516.8	6817.4	4405.5	1675.5	1202.7	1170.0	1128.6	1056.7	1015.3	1015.3
30°	8048.4	7769.5	6871.9	3390.2	1233.2	1063.2	1037.1	973.9	875.9	821.4	821.4
32.5°	8471.1	8153.0	6837.0	2379.2	1021.8	934.7	873.7	786.5	679.8	627.5	625.3
35°	9118.2	8745.6	6588.6	1560.0	902.0	812.7	714.6	607.9	514.2	470.6	468.4
37.5°	9989.7	9538.7	6030.9	1115.5	808.3	699.4	581.7	464.1	394.4	366.0	363.9
40°	11120.5	10460.3	5233.4	904.2	721.2	590.5	448.8	359.5	311.6	289.8	292.0
42.5°	12477.9	11447.3	4277.0	780.0	636.2	485.9	350.8	283.2	252.7	237.5	233.1
45°	13985.6	12421.2	3274.7	695.0	551.2	392.2	274.5	224.4	200.4	191.7	191.7
47.5°	15643.7	13369.0	2396.7	621.0	459.7	302.9	220.1	183.0	163.4	156.9	154.7
50°	17149.2	14027.0	1727.8	542.5	376.9	239.7	178.7	152.5	139.4	130.7	130.7
52.5°	18404.2	14234.0	1272.4	457.5	305.0	191.7	148.2	130.7	117.7	111.1	111.1
55°	19508.8	14149.0	945.6	376.9	246.2	156.9	126.4	111.1	100.2	93.7	93.7
57.5°	20567.7	13874.5	705.9	307.2	198.3	126.4	106.8	93.7	82.8	78.4	78.4
60°	21432.7	13416.9	525.1	248.4	159.1	102.4	89.3	76.3	67.5	61.0	61.0
62.5°	22134.3	12911.5	385.6	204.8	126.4	80.6	69.7	63.2	50.1	43.6	43.6
65°	22138.6	12072.6	289.8	169.9	98.0	63.2	52.3	50.1	32.7	26.1	24.0
67.5°	20537.2	10408.0	222.2	146.0	76.3	47.9	39.2	41.4	17.4	10.9	8.7
68°	19955.5	9985.4	209.2	143.8	71.9	45.8	37.0	41.4	15.3	8.7	6.5
70°	16824.6	7943.8	167.8	139.4	63.2	34.9	30.5	41.4	13.1	6.5	4.4
72.5°	10761.0	4610.3	124.2	111.1	47.9	26.1	19.6	37.0	13.1	4.4	2.2
75°	4579.8	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)