

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: P322902

Luminaire Tested: **GAN-SA8D-740-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45072 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

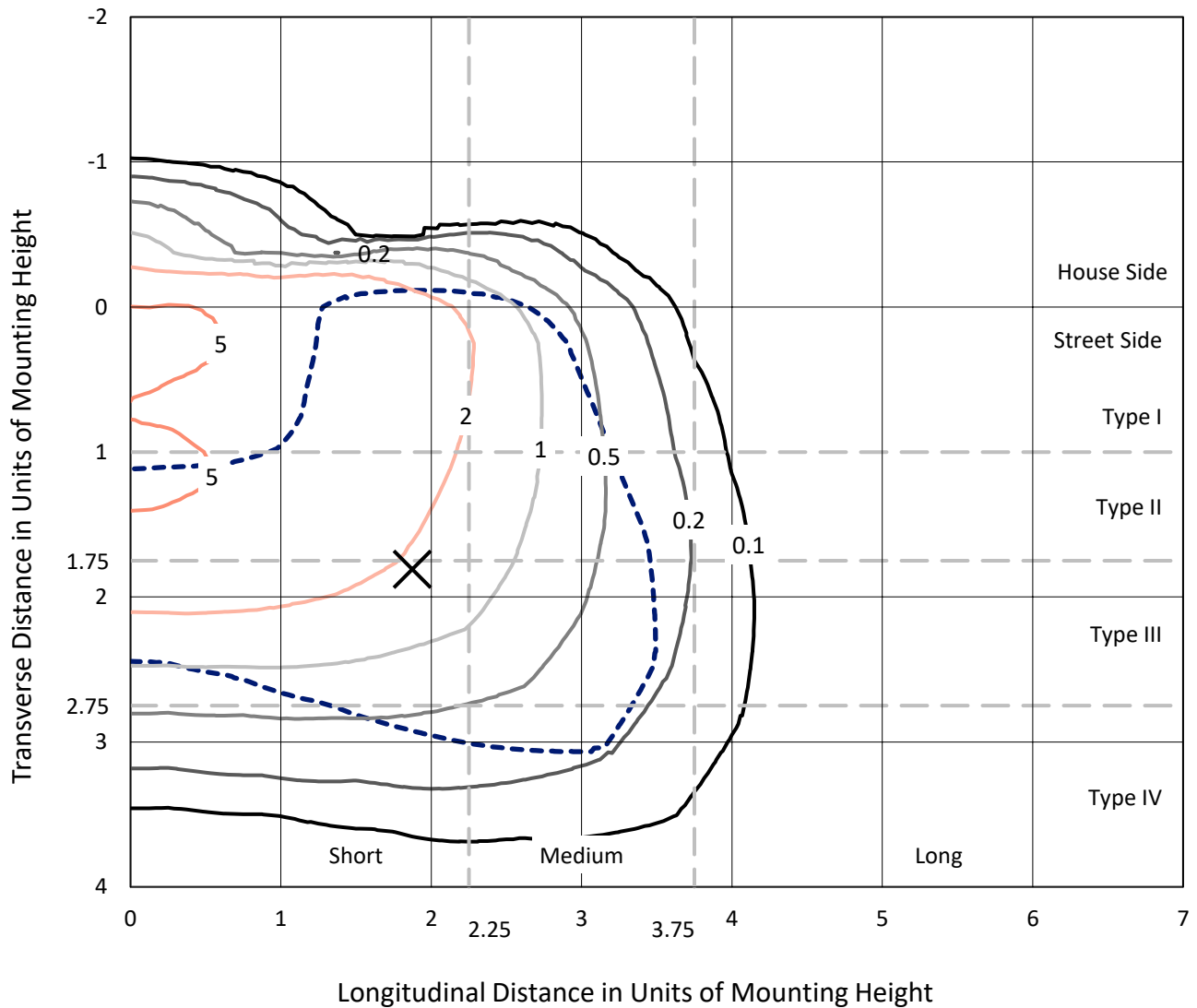
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

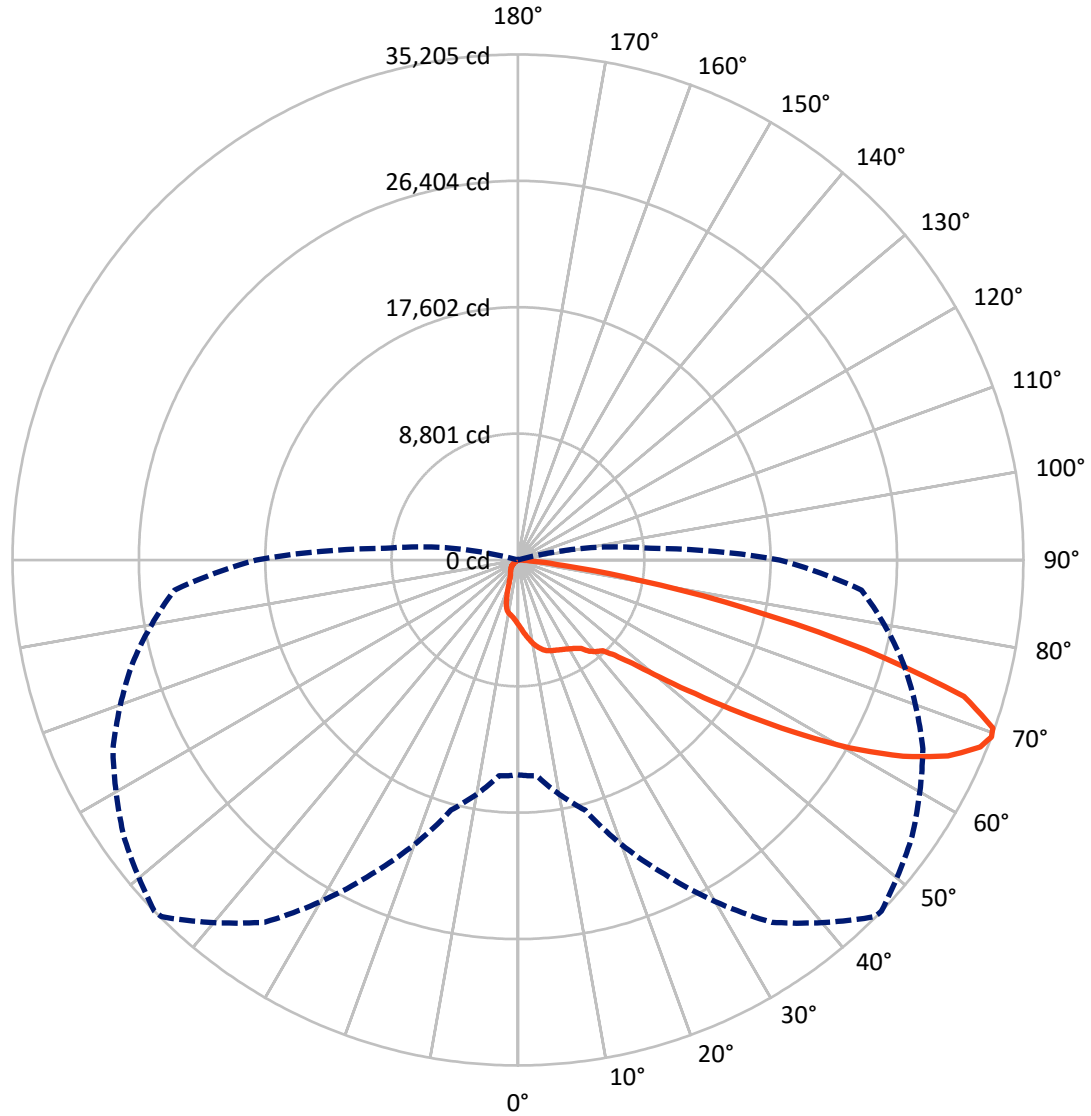
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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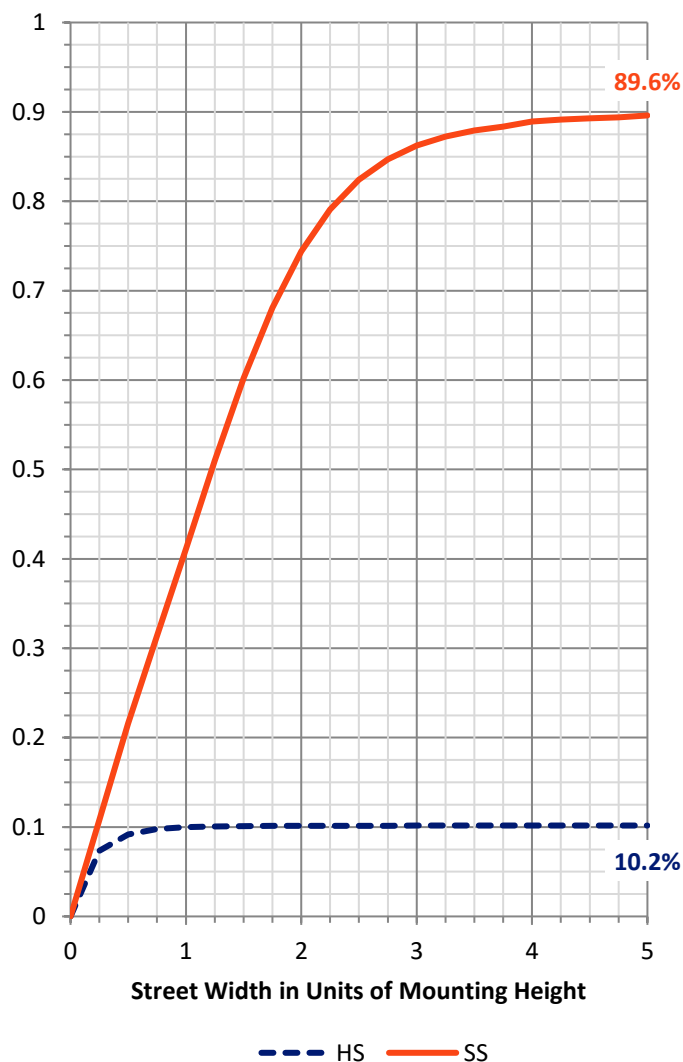
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4625.6	0.0	4625.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	40446.4	0.0	40446.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	45072.0	0.0	45072.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.5	1.0
10°-20°	1363.7	3.0
20°-30°	2144.6	4.8
30°-40°	3075.4	6.8
40°-50°	5315.4	11.8
50°-60°	10501.1	23.3
60°-70°	14676.3	32.6
70°-80°	7090.2	15.7
80°-90°	455.7	1.0
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°	45072.0	100.0
0°-180°	45072.0	100.0

Coefficient of Utilization



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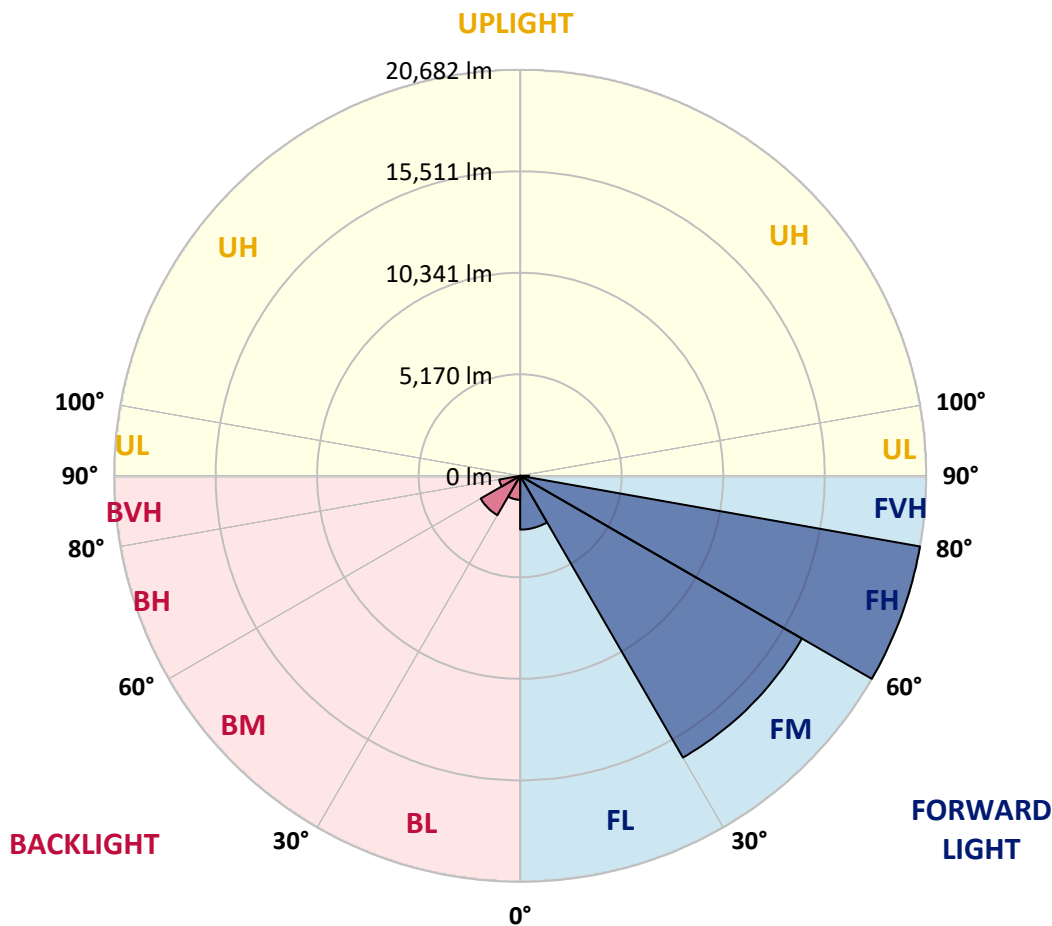
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2738.7	6.1			
FM (30°-60°)	16574.0	36.8			
FH (60°-80°)	20681.9	45.9			G5
FVH (80°-90°)	451.9	1.0			G3/500
BL (0°-30°)	1219.1	2.7	B3/2500		
BM (30°-60°)	2318.0	5.1	B2/2500		
BH (60°-80°)	1084.6	2.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4516.0	4516.0	4516.0	4516.0	4516.0	4516.0	4516.0	4516.0	4516.0	4516.0	4516.0
2.5°	5016.9	5010.5	4981.0	4968.3	4896.4	4854.2	4837.3	4784.4	4708.4	4632.3	4547.7
5°	5587.5	5585.4	5530.4	5477.6	5342.3	5215.5	5192.3	5069.7	4898.5	4737.9	4577.3
7.5°	6170.7	6143.3	6088.3	5986.9	5790.3	5587.5	5568.5	5395.2	5152.1	4919.7	4689.3
10°	6665.2	6648.3	6576.5	6422.2	6191.9	5961.5	5938.3	5724.8	5450.1	5164.8	4871.1
12.5°	7049.8	7037.2	6942.1	6749.8	6504.6	6265.8	6234.1	6043.9	5750.2	5431.1	5084.5
15°	7284.4	7278.1	7161.9	6956.9	6716.0	6508.9	6481.4	6314.4	6041.8	5707.9	5317.0
17.5°	7339.4	7341.5	7221.0	7013.9	6815.3	6667.3	6646.2	6519.4	6291.2	5959.4	5549.4
20°	7216.8	7242.2	7134.4	6954.8	6832.2	6754.0	6737.1	6661.0	6468.7	6155.9	5735.4
22.5°	7043.5	7056.2	6982.2	6861.8	6811.1	6825.8	6817.4	6775.1	6612.4	6325.0	5919.3
25°	6937.8	6937.8	6893.5	6792.0	6825.8	6916.7	6918.8	6910.4	6781.5	6532.1	6143.3
27.5°	6933.6	6920.9	6870.2	6794.1	6887.1	7026.6	7035.1	7092.1	7011.8	6783.6	6422.2
30°	7102.7	7087.9	6980.1	6880.8	6999.1	7149.2	7170.3	7295.0	7254.8	7056.2	6732.9
32.5°	7497.9	7445.0	7206.2	7043.5	7132.3	7311.9	7339.4	7538.0	7601.4	7392.2	7032.9
35°	8038.9	7871.9	7527.4	7352.0	7360.5	7548.6	7573.9	7865.6	8053.7	7700.7	7265.4
37.5°	8784.8	8702.4	8142.4	7673.3	7711.3	7996.6	8070.6	8387.5	8334.7	7869.8	7529.6
40°	10420.5	10291.6	9695.7	8573.5	8047.3	8360.1	8383.3	8552.4	8556.6	8252.3	8079.0
42.5°	12647.9	12595.1	11967.4	10207.1	8708.8	8603.1	8645.4	8930.7	9249.8	9059.6	9051.1
45°	15114.1	15086.6	14420.9	12375.3	10046.5	9399.8	9452.6	9835.1	10445.9	10488.1	10756.5
47.5°	17098.4	17085.7	16703.2	14795.0	12094.2	10750.2	10767.1	11172.8	12246.4	12776.8	13205.8
50°	18907.4	18968.7	18666.5	17413.3	14883.7	12865.6	12825.4	13095.9	14820.3	15688.9	16221.4
52.5°	21422.2	21508.8	20661.4	19856.2	17810.6	15490.2	15458.5	15741.7	17914.1	18565.0	18660.1
55°	23643.2	23495.3	22825.4	22592.9	21379.9	18732.0	18723.5	18972.9	20906.5	21183.4	21358.8
57.5°	24623.8	24566.7	24890.0	25422.6	25118.3	22563.3	22544.3	22354.1	23584.0	23613.6	24152.5
60°	25242.9	25312.7	26303.8	27945.8	28704.5	26686.3	26563.7	25403.6	26141.1	26075.6	26652.5
62.5°	24778.0	24915.4	26699.0	29435.7	31388.3	30285.2	30111.9	28197.3	28326.2	28100.1	28636.8
65°	22309.7	22523.2	25445.8	29154.6	32719.7	33097.9	32922.5	30663.5	30061.2	29689.3	29391.3
67.5°	18114.9	18241.7	21293.3	26709.5	32119.5	34775.9	34740.0	32825.3	31371.4	29420.9	27109.0
69°	14970.4	15095.0	18032.5	24135.6	30798.7	35135.1	35204.9	33518.5	31122.0	27789.4	24019.4
70°	12679.6	12812.7	15549.4	21929.3	29266.6	34968.2	35092.9	33453.0	30407.8	25900.2	21308.0
72.5°	6650.4	6764.6	9573.1	15107.7	23858.8	32108.9	32487.2	30625.4	25775.5	18810.2	12599.3
75°	2090.0	2155.5	3738.4	7897.3	16335.5	24966.1	25052.7	24023.6	18303.0	10346.5	5247.2
77.5°	796.7	777.7	1244.7	2910.0	8258.6	15720.6	16251.0	15012.6	9604.8	3658.1	1210.9
80°	429.0	431.1	646.7	1204.6	3533.4	8079.0	8527.0	7276.0	3412.9	1141.2	279.0
82.5°	186.0	194.4	363.5	638.2	1623.0	2979.7	3203.7	2666.9	1303.9	767.1	103.5
85°	40.2	44.4	175.4	346.6	661.5	836.9	877.0	864.3	830.5	595.9	40.2
87.5°	0.0	0.0	78.2	124.7	166.9	190.2	166.9	217.7	458.6	401.5	21.1
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°	4516.0	4516.0	4516.0	4516.0	4516.0	4516.0	4516.0	4516.0	4516.0	4516.0	4516.0
2.5°	4520.3	4482.2	4416.7	4344.9	4294.2	4241.3	4199.1	4180.0	4158.9	4144.1	4163.1
5°	4511.8	4437.9	4311.1	4188.5	4099.7	4027.9	3968.7	3945.5	3922.2	3905.3	3903.2
7.5°	4585.8	4482.2	4287.8	4108.2	3970.8	3873.6	3793.3	3759.5	3732.0	3719.3	3708.8
10°	4727.4	4594.2	4334.3	4099.7	3922.2	3757.4	3584.1	3451.0	3364.3	3324.2	3309.4
12.5°	4911.2	4744.3	4423.1	4144.1	3886.3	3569.3	3201.6	2884.6	2679.6	2612.0	2571.8
15°	5126.8	4919.7	4539.3	4201.2	3755.3	3176.2	2552.8	2138.6	1948.4	1910.4	1868.1
17.5°	5333.9	5105.6	4678.8	4211.7	3467.9	2538.0	1870.2	1589.2	1515.2	1540.6	1546.9
20°	5515.6	5289.5	4816.1	4118.8	2945.9	1904.1	1447.6	1377.8	1405.3	1453.9	1462.4
22.5°	5699.5	5467.0	4942.9	3873.6	2278.1	1445.5	1303.9	1320.8	1348.3	1396.9	1405.3
25°	5923.5	5682.6	5061.3	3423.5	1709.6	1229.9	1238.4	1263.7	1291.2	1335.6	1339.8
27.5°	6181.3	5955.2	5139.5	2838.1	1268.0	1130.6	1158.1	1196.1	1223.6	1265.8	1274.3
30°	6523.6	6314.4	5164.8	2231.6	1063.0	1041.8	1054.5	1101.0	1141.2	1179.2	1185.5
32.5°	6844.9	6669.5	5080.3	1684.3	984.8	959.4	959.4	986.9	1033.4	1069.3	1077.8
35°	7140.7	7026.6	4809.8	1232.0	925.6	883.3	862.2	862.2	891.8	921.4	929.8
37.5°	7531.7	7527.4	4372.3	982.7	868.6	819.9	775.6	741.8	731.2	737.5	741.8
40°	8201.6	8207.9	3801.8	881.2	819.9	754.4	686.8	625.5	568.5	549.4	547.3
42.5°	9247.6	9152.5	3203.7	832.6	777.7	686.8	585.4	503.0	414.2	386.7	384.6
45°	10908.7	10344.4	2569.7	788.2	733.3	610.7	483.9	371.9	300.1	279.0	279.0
47.5°	13328.4	11910.4	1990.7	739.6	674.1	524.1	365.6	268.4	219.8	209.2	211.3
50°	15830.5	13444.6	1525.8	678.4	602.3	433.2	270.5	194.4	166.9	166.9	169.1
52.5°	18049.4	14568.8	1189.8	612.8	513.5	340.2	205.0	152.2	139.5	137.4	139.5
55°	20126.7	15293.7	910.8	536.8	407.9	253.6	156.4	124.7	116.2	112.0	109.9
57.5°	22130.1	15652.9	682.6	433.2	295.9	183.9	124.7	105.7	97.2	90.9	88.8
60°	23463.6	15361.3	469.1	319.1	205.0	133.1	103.5	90.9	80.3	74.0	71.9
62.5°	24215.9	14564.6	302.2	230.3	145.8	99.3	82.4	76.1	61.3	54.9	54.9
65°	23911.6	13250.2	211.3	164.8	105.7	74.0	61.3	61.3	44.4	35.9	33.8
67.5°	21189.7	11194.0	160.6	122.6	76.1	54.9	46.5	52.8	27.5	16.9	16.9
69°	18231.1	9277.2	137.4	101.4	63.4	44.4	40.2	48.6	19.0	12.7	10.6
70°	15845.3	8002.9	124.7	88.8	52.8	38.0	35.9	46.5	19.0	10.6	8.5
72.5°	9480.1	4463.2	95.1	63.4	33.8	29.6	29.6	52.8	19.0	10.6	8.5
75°	3831.3	1572.3	69.7	44.4	25.4	25.4	35.9	67.6	16.9	8.5	6.3
77.5°	868.6	344.5	40.2	27.5	16.9	25.4	42.3	52.8	10.6	4.2	0.0
80°	211.3	84.5	25.4	16.9	10.6	19.0	31.7	29.6	2.1	0.0	0.0
82.5°	69.7	29.6	10.6	8.5	2.1	6.3	14.8	8.5	0.0	0.0	0.0
85°	29.6	16.9	4.2	2.1	0.0	0.0	2.1	0.0	0.0	0.0	0.0
87.5°	19.0	6.3	0.0	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)