

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: P323473

Luminaire Tested: **GAN-SA9A-730-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32413 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

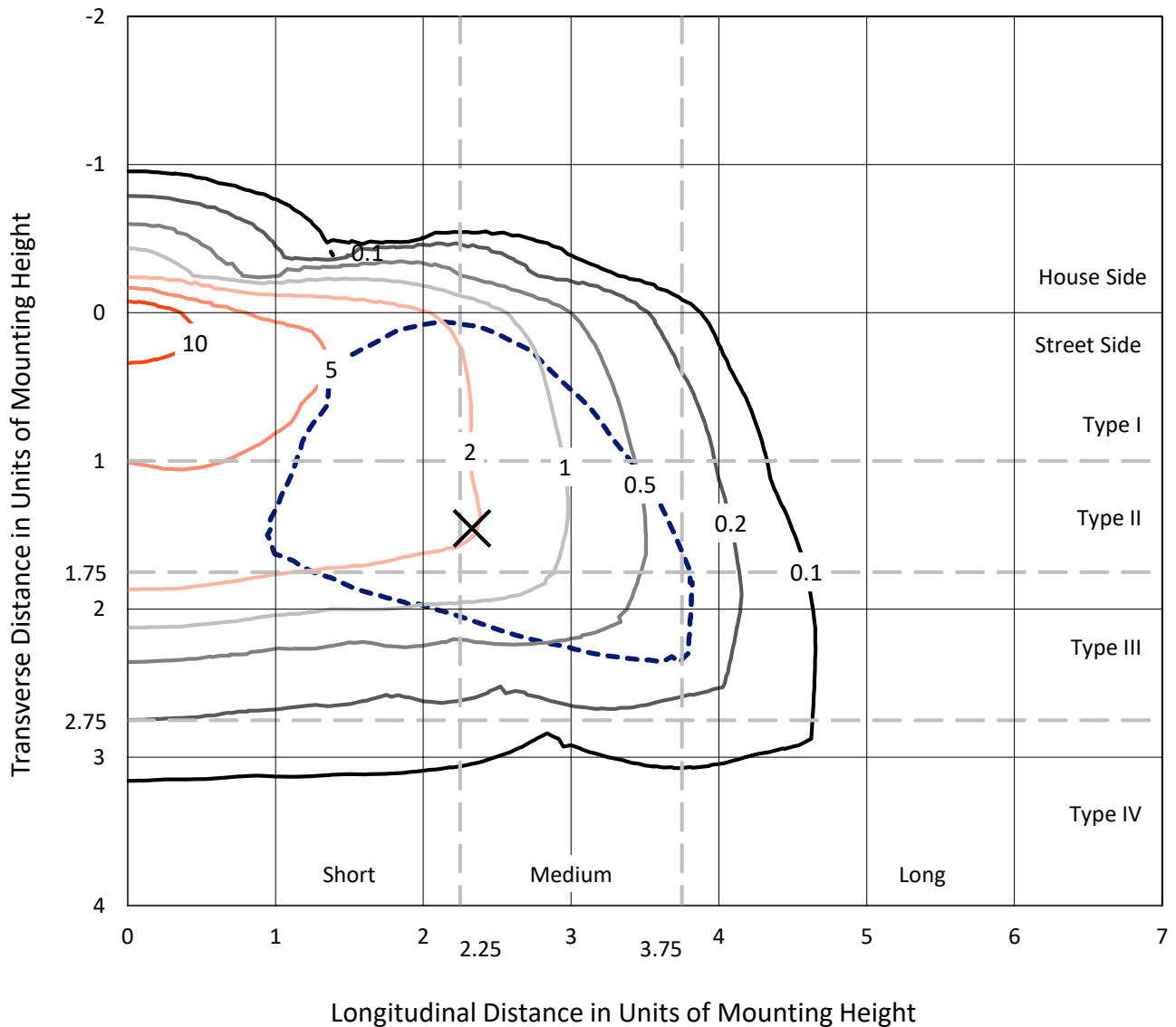
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

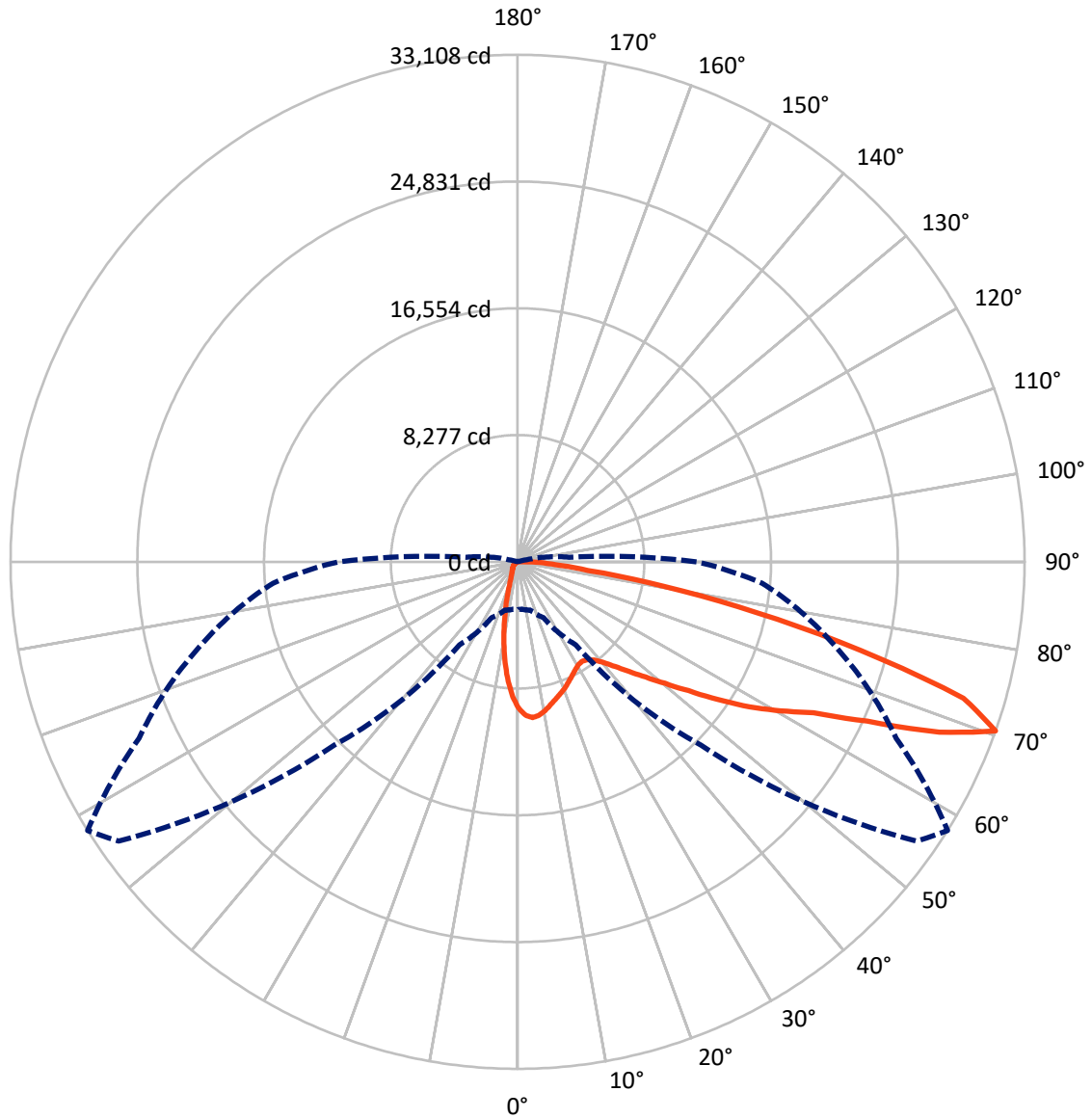
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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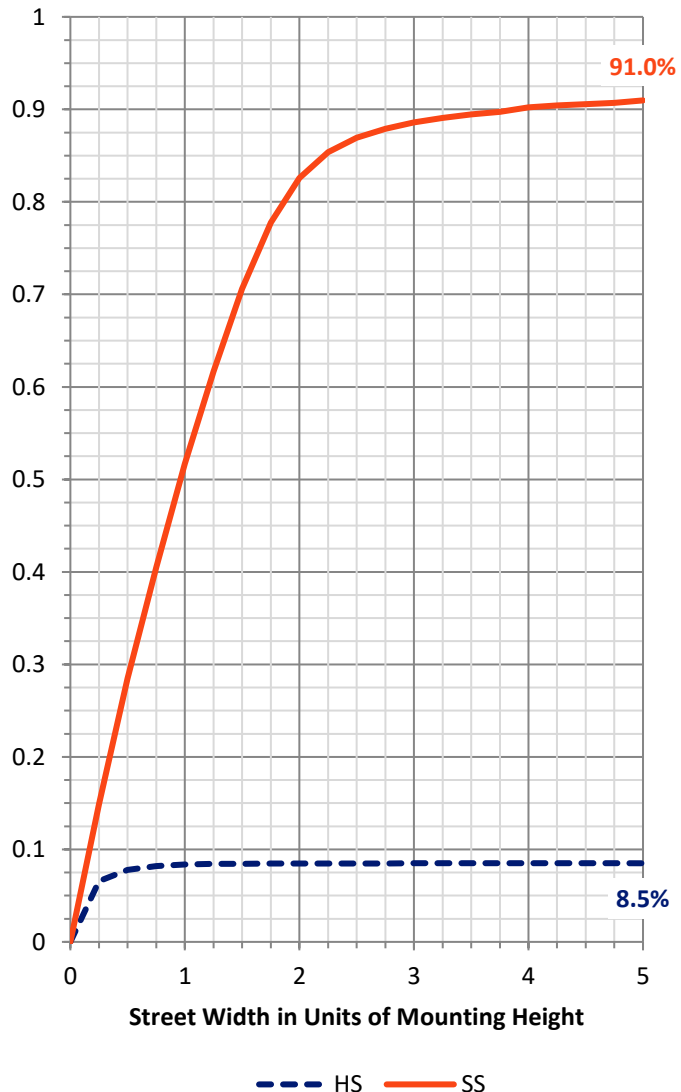
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2773.8	0.0	2773.8
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	29639.2	0.0	29639.2
	% Fixture	91.4	0.0	91.4
Total	Lumens	32413.0	0.0	32413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.0	2.4
10°-20°	1643.3	5.1
20°-30°	2160.3	6.7
30°-40°	2861.1	8.8
40°-50°	4276.4	13.2
50°-60°	6850.7	21.1
60°-70°	8635.2	26.6
70°-80°	4657.8	14.4
80°-90°	545.2	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°	32413.0	100.0
0°-180°	32413.0	100.0

Coefficient of Utilization

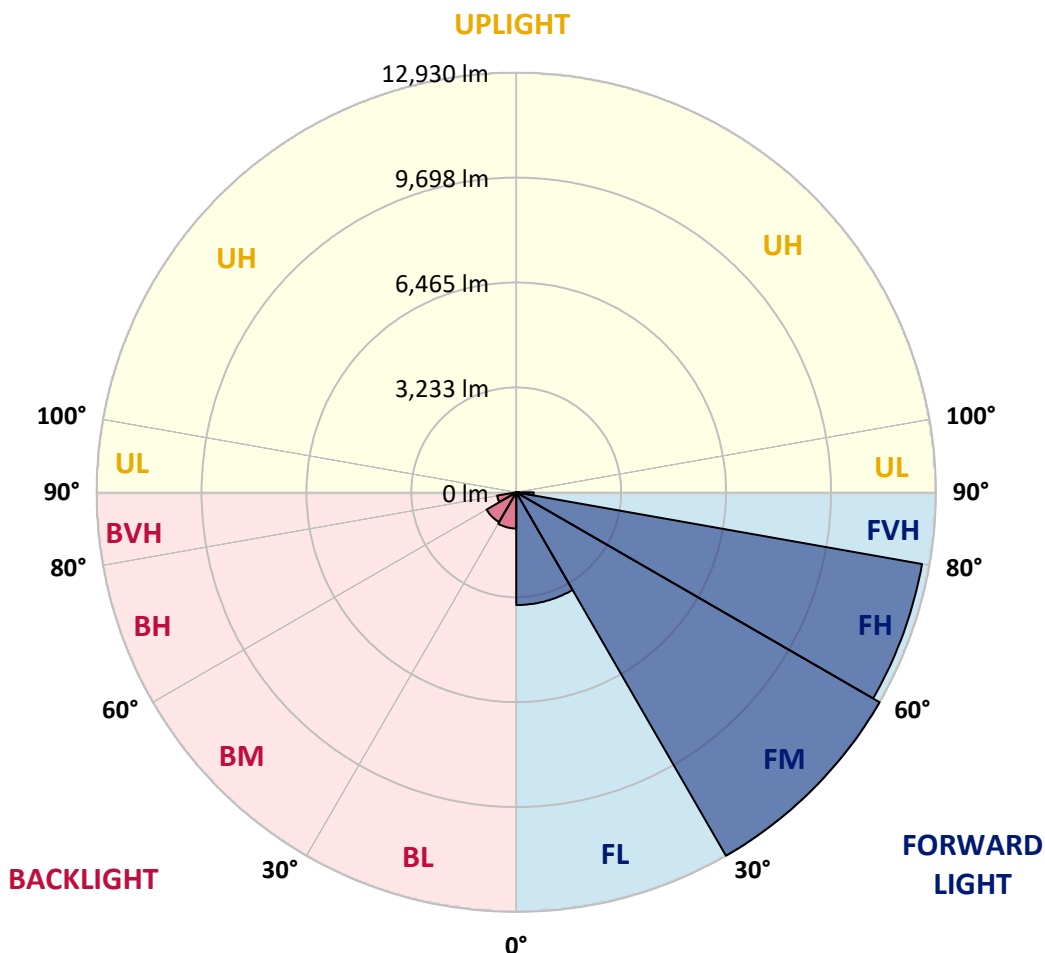


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3472.1	10.7			
FM (30°-60°)	12930.0	39.9			
FH (60°-80°)	12696.5	39.2			G5
FVH (80°-90°)	540.5	1.7			G4/750
BL (0°-30°)	1114.4	3.4	B3/2500		
BM (30°-60°)	1058.2	3.3	B2/2500		
BH (60°-80°)	596.5	1.8	B2/1000		G2/1000
BVH (80°-90°)	4.7	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6
2.5°	10368.5	10342.9	10333.4	10317.3	10255.3	10194.6	10074.7	10041.0	9965.5	9786.2	9596.2
5°	10376.6	10375.2	10403.5	10396.8	10375.2	10346.9	10260.7	10216.2	10088.2	9832.1	9484.3
7.5°	9876.6	9902.2	9965.5	10016.7	10076.0	10152.8	10163.6	10120.5	10015.4	9739.1	9278.1
10°	9205.4	9245.8	9334.7	9435.8	9590.8	9744.5	9881.9	9876.6	9840.2	9567.9	9030.1
12.5°	8532.8	8580.0	8682.4	8832.0	9051.7	9302.4	9547.7	9581.4	9642.0	9414.3	8801.0
15°	7943.8	7984.3	8085.3	8268.6	8540.9	8877.8	9237.7	9299.7	9456.0	9294.3	8609.6
17.5°	7443.8	7469.4	7543.5	7747.1	8062.4	8470.8	8938.5	9059.8	9293.0	9200.0	8443.9
20°	7094.7	7098.8	7147.3	7290.2	7605.5	8062.4	8628.5	8802.4	9120.4	9119.1	8272.7
22.5°	6922.2	6908.7	6918.2	7000.4	7232.2	7672.9	8318.5	8524.7	8965.4	9050.4	8098.8
25°	6889.9	6879.1	6852.1	6862.9	7003.1	7331.9	8005.8	8244.4	8829.3	9008.6	7947.9
27.5°	6990.9	7001.7	6955.9	6907.4	6918.2	7110.9	7728.2	8004.5	8718.8	9008.6	7841.4
30°	7194.5	7199.9	7166.2	7102.8	7017.9	7048.9	7535.5	7811.7	8663.5	9070.6	7774.0
32.5°	7419.5	7449.2	7445.2	7393.9	7272.6	7147.3	7489.6	7741.7	8659.5	9208.0	7767.3
35°	7698.5	7732.2	7788.8	7778.1	7651.4	7445.2	7646.0	7844.1	8739.0	9434.5	7840.1
37.5°	7995.0	8046.3	8167.6	8225.5	8143.3	7910.1	7996.4	8137.9	8952.0	9801.1	8024.7
40°	8282.1	8340.1	8561.1	8788.9	8726.9	8487.0	8527.4	8640.6	9330.7	10328.1	8375.1
42.5°	8563.8	8650.1	8974.9	9349.6	9423.7	9232.3	9253.9	9344.2	9892.7	11053.2	8947.9
45°	8900.8	8997.8	9479.0	9941.2	10139.4	10055.8	10147.5	10206.8	10627.3	12011.4	9720.2
47.5°	9395.4	9507.3	10097.6	10624.6	10972.3	11026.2	11210.9	11249.9	11555.9	13127.4	10727.0
50°	10360.4	10391.4	10925.1	11403.6	11905.0	12228.4	12438.7	12468.3	12679.9	14347.1	11984.5
52.5°	11574.8	11595.0	11896.9	12217.6	12787.8	13448.2	13940.1	13981.9	14026.4	15535.9	13225.8
55°	12781.0	12778.3	12977.8	13166.5	13818.8	14778.4	15845.9	15871.5	15552.1	16664.0	14174.6
57.5°	13534.4	13607.2	13910.5	14153.1	15064.2	16294.7	17775.9	17870.2	17154.6	17499.6	15112.7
60°	13294.5	13329.6	14002.1	14899.7	16615.5	18449.8	19728.8	19753.1	18359.5	18333.9	16298.7
62.5°	11326.8	11345.6	12402.3	14252.8	17401.2	21245.1	22084.8	21689.9	19745.0	19491.6	17717.9
65°	7763.2	7885.9	8768.7	11055.9	15957.7	22998.6	25731.9	25078.2	21857.0	21160.2	19001.0
67.5°	4571.7	4546.1	4982.8	6667.5	11720.3	21834.1	30345.3	29695.7	24737.2	22277.5	18625.0
70°	3122.8	3105.3	3272.4	4036.6	6616.3	16937.6	31796.9	33108.3	27280.5	21525.4	16029.2
72.5°	2229.2	2238.7	2485.3	3136.3	4153.9	9868.5	27343.8	30447.8	26483.9	18765.2	12184.0
75°	1513.6	1539.2	1892.3	2572.9	3641.7	5020.5	19404.0	23145.5	21565.9	13638.2	7003.1
77.5°	814.1	842.4	1258.8	2072.9	3292.6	3488.1	12481.8	15929.4	13546.6	6131.1	2029.8
80°	339.6	355.8	589.0	1506.8	2845.2	3063.5	7344.1	9659.6	5772.6	1209.0	452.9
82.5°	146.9	155.0	245.3	899.0	2126.8	2586.4	3888.4	4647.2	1749.4	265.5	227.8
85°	28.3	29.7	101.1	475.8	1357.2	1459.6	2520.4	2470.5	785.8	114.6	165.8
87.5°	0.0	0.0	24.3	149.6	398.9	795.2	1537.8	1519.0	266.9	55.3	62.0
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°	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6	9574.6
2.5°	9499.2	9406.2	9210.7	8969.5	8784.8	8581.3	8419.6	8214.7	8125.8	8129.8	8081.3
5°	9286.2	9094.8	8662.2	8116.3	7695.8	7261.9	6888.5	6516.5	6296.8	6225.4	6158.0
7.5°	8981.6	8678.4	7988.3	7147.3	6435.7	5740.2	5135.1	4602.7	4265.7	4101.3	4040.7
10°	8637.9	8212.0	7213.3	6105.5	5089.2	4148.5	3364.1	2682.1	2409.8	2225.2	2178.0
12.5°	8336.0	7759.2	6455.9	5036.7	3830.4	2695.6	1947.5	1523.0	1338.3	1265.6	1253.4
15°	8051.7	7336.0	5726.7	4069.0	2652.4	1659.1	1238.6	1094.4	1051.3	1039.1	1039.1
17.5°	7783.4	6933.0	5013.8	3116.1	1754.8	1163.1	1025.7	993.3	979.8	978.5	979.8
20°	7503.1	6530.0	4312.9	2283.1	1225.1	985.2	947.5	930.0	925.9	925.9	925.9
22.5°	7234.9	6127.0	3630.9	1630.8	982.5	899.0	880.1	868.0	863.9	862.6	859.9
25°	6977.5	5744.2	2965.1	1152.4	862.6	823.5	807.3	791.1	779.0	772.3	768.2
27.5°	6765.9	5403.3	2345.1	924.6	779.0	745.3	725.1	700.8	671.2	657.7	652.3
30°	6597.4	5091.9	1807.4	780.4	700.8	667.2	636.2	594.4	551.2	528.3	527.0
32.5°	6465.3	4786.0	1372.0	690.1	630.8	589.0	544.5	491.9	442.1	416.5	415.1
35°	6400.6	4516.4	1048.6	624.0	568.8	516.2	460.9	403.0	354.5	330.2	327.5
37.5°	6443.7	4288.6	818.1	568.8	516.2	455.6	390.9	330.2	287.1	265.5	264.2
40°	6601.4	4143.1	664.5	521.6	471.7	397.6	327.5	270.9	234.5	217.0	215.6
42.5°	6937.0	4089.2	567.4	482.5	428.6	343.7	272.3	223.7	190.0	177.9	175.2
45°	7497.7	4168.7	501.4	444.8	384.1	292.5	225.1	183.3	153.6	144.2	142.9
47.5°	8244.4	4377.6	454.2	408.4	343.7	246.6	187.3	148.3	125.3	115.9	114.6
50°	9206.7	4709.2	415.1	372.0	305.9	208.9	155.0	117.3	97.0	90.3	90.3
52.5°	10253.9	5104.1	380.1	338.3	268.2	173.9	125.3	90.3	76.8	68.7	68.7
55°	11119.2	5449.1	342.3	312.7	222.4	144.2	95.7	68.7	56.6	52.6	52.6
57.5°	11983.1	5817.0	299.2	268.2	177.9	117.3	72.8	51.2	41.8	39.1	39.1
60°	13103.1	6267.2	257.4	218.3	140.2	89.0	53.9	36.4	31.0	29.7	29.7
62.5°	14335.0	6531.4	219.7	175.2	109.2	66.0	39.1	24.3	22.9	22.9	21.6
65°	15088.4	6158.0	184.6	140.2	84.9	49.9	25.6	17.5	20.2	18.9	16.2
67.5°	14127.5	4821.0	151.0	109.2	66.0	37.7	16.2	12.1	21.6	17.5	13.5
70°	11697.4	3374.8	117.3	76.8	52.6	32.3	10.8	8.1	22.9	17.5	10.8
72.5°	8753.8	2258.9	93.0	51.2	39.1	28.3	9.4	4.0	20.2	14.8	9.4
75°	4783.3	909.8	74.1	32.3	24.3	20.2	6.7	2.7	13.5	10.8	6.7
77.5°	1258.8	239.9	53.9	21.6	13.5	8.1	4.0	1.3	6.7	5.4	2.7
80°	320.8	93.0	35.0	14.8	9.4	4.0	0.0	0.0	1.3	0.0	0.0
82.5°	171.2	39.1	21.6	10.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	129.4	25.6	12.1	6.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	49.9	8.1	4.0	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)