

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: P323469

Luminaire Tested: **GAN-SA5A-730-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323469
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-SA5A-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 18121 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

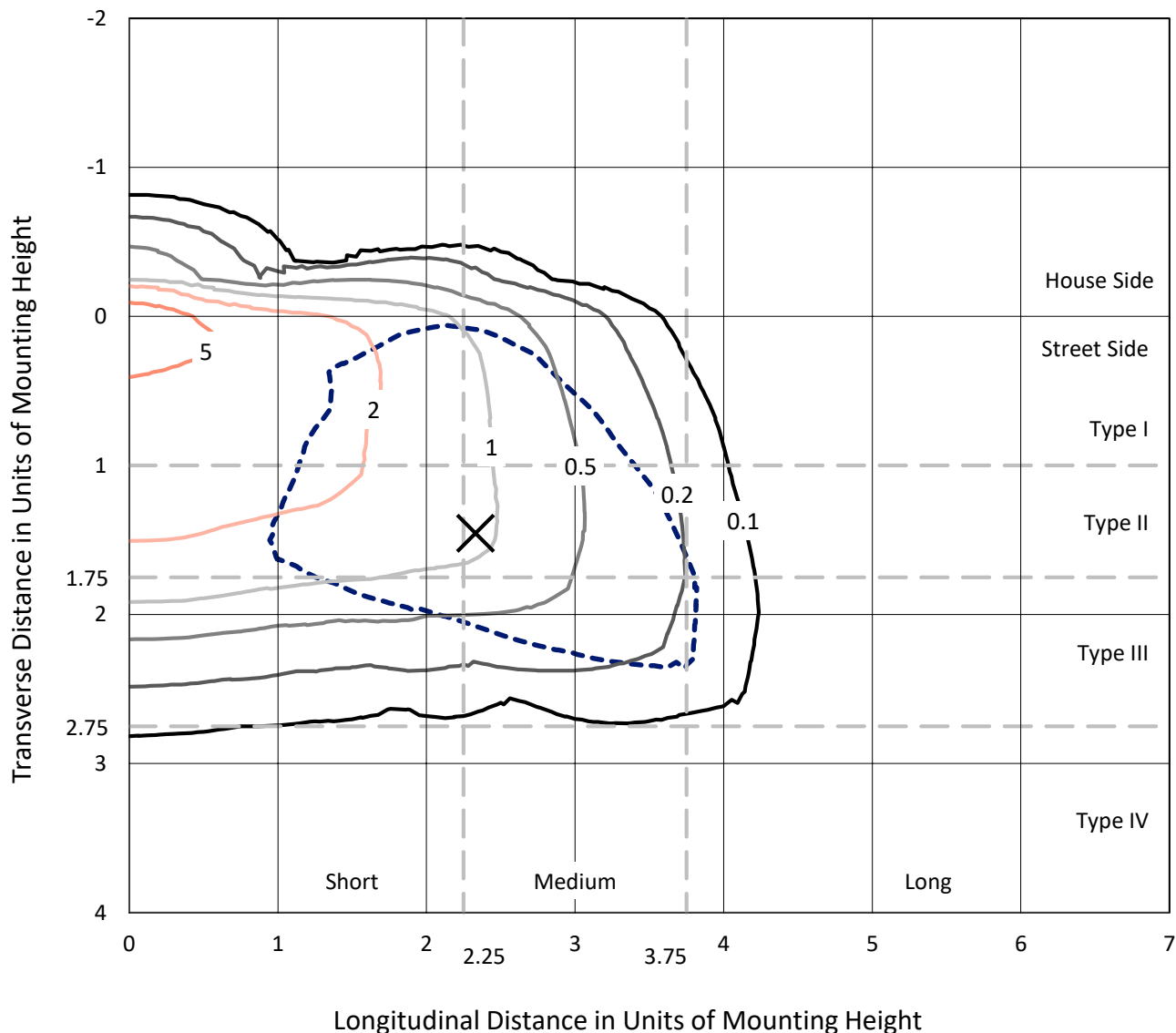
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

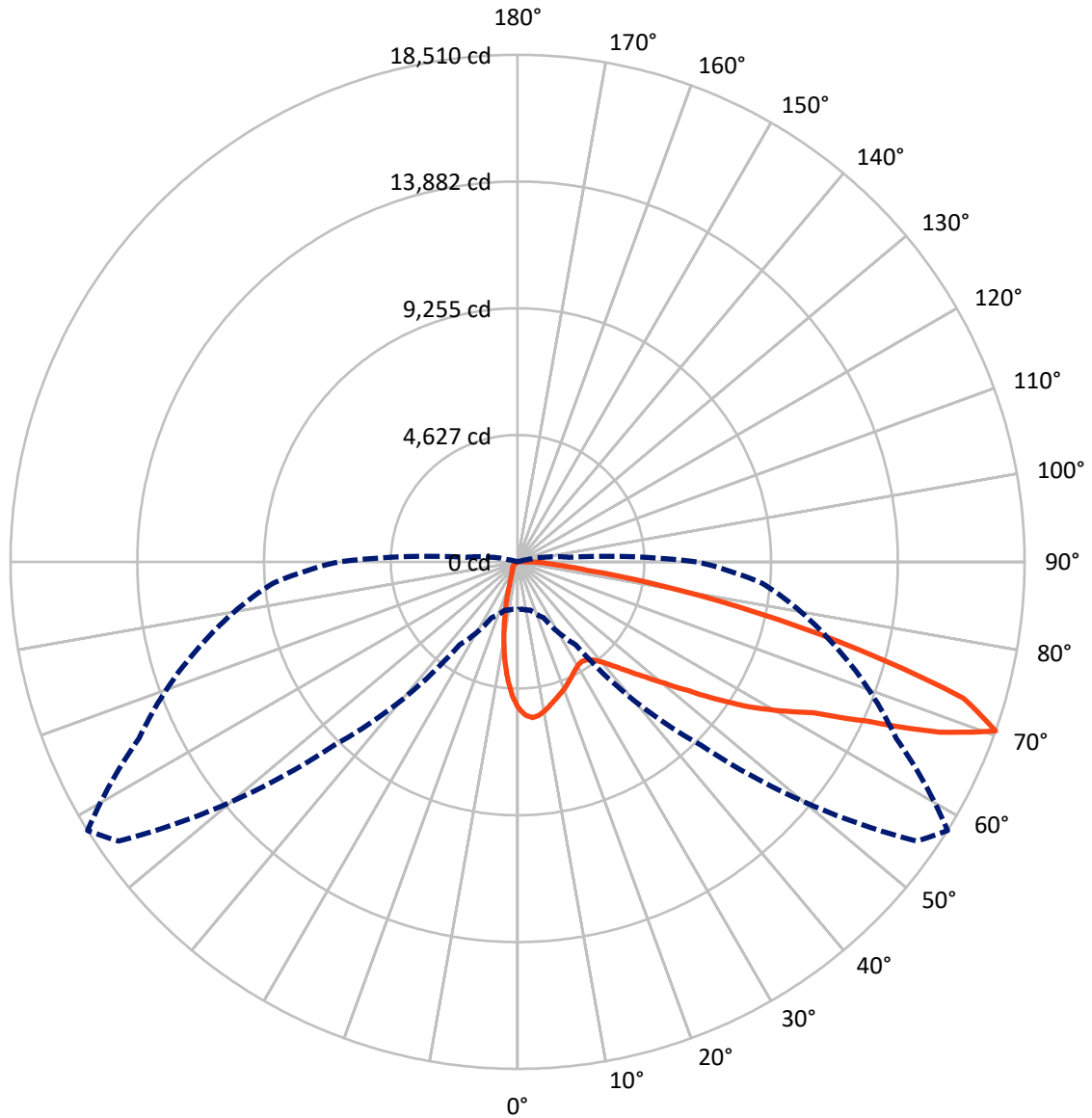
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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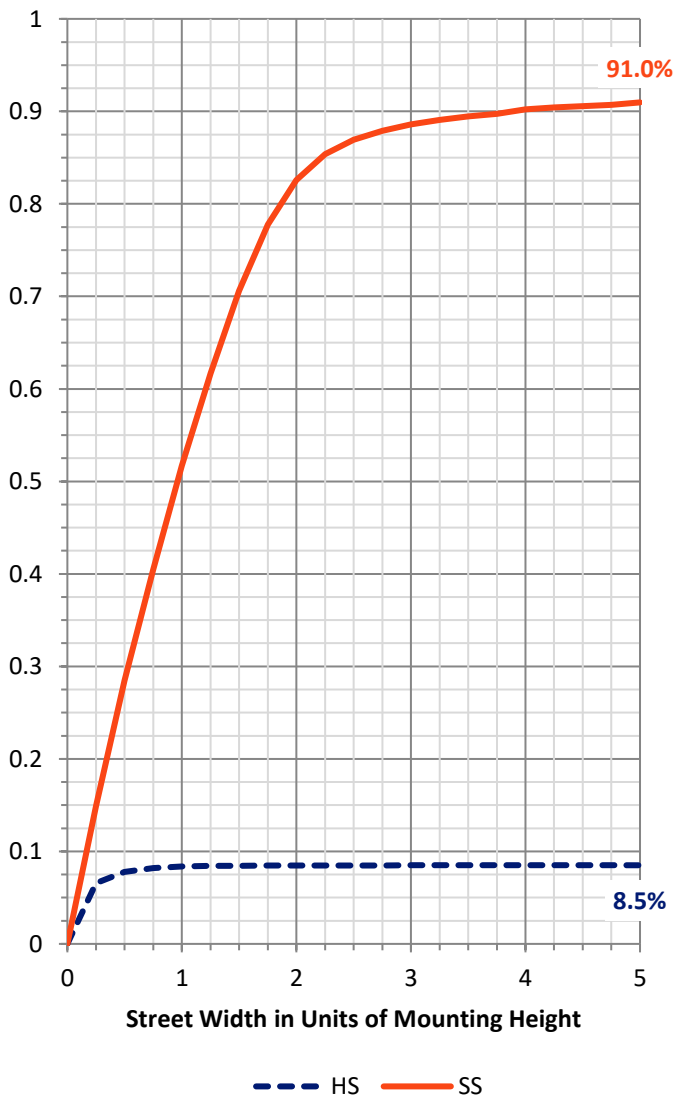
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1550.8	0.0	1550.8
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	16570.2	0.0	16570.2
	% Fixture	91.4	0.0	91.4
Total	Lumens	18121.0	0.0	18121.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.7	2.4
10°-20°	918.7	5.1
20°-30°	1207.8	6.7
30°-40°	1599.5	8.8
40°-50°	2390.8	13.2
50°-60°	3830.0	21.1
60°-70°	4827.7	26.6
70°-80°	2604.0	14.4
80°-90°	304.8	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°	18121.0	100.0
0°-180°	18121.0	100.0

Coefficient of Utilization



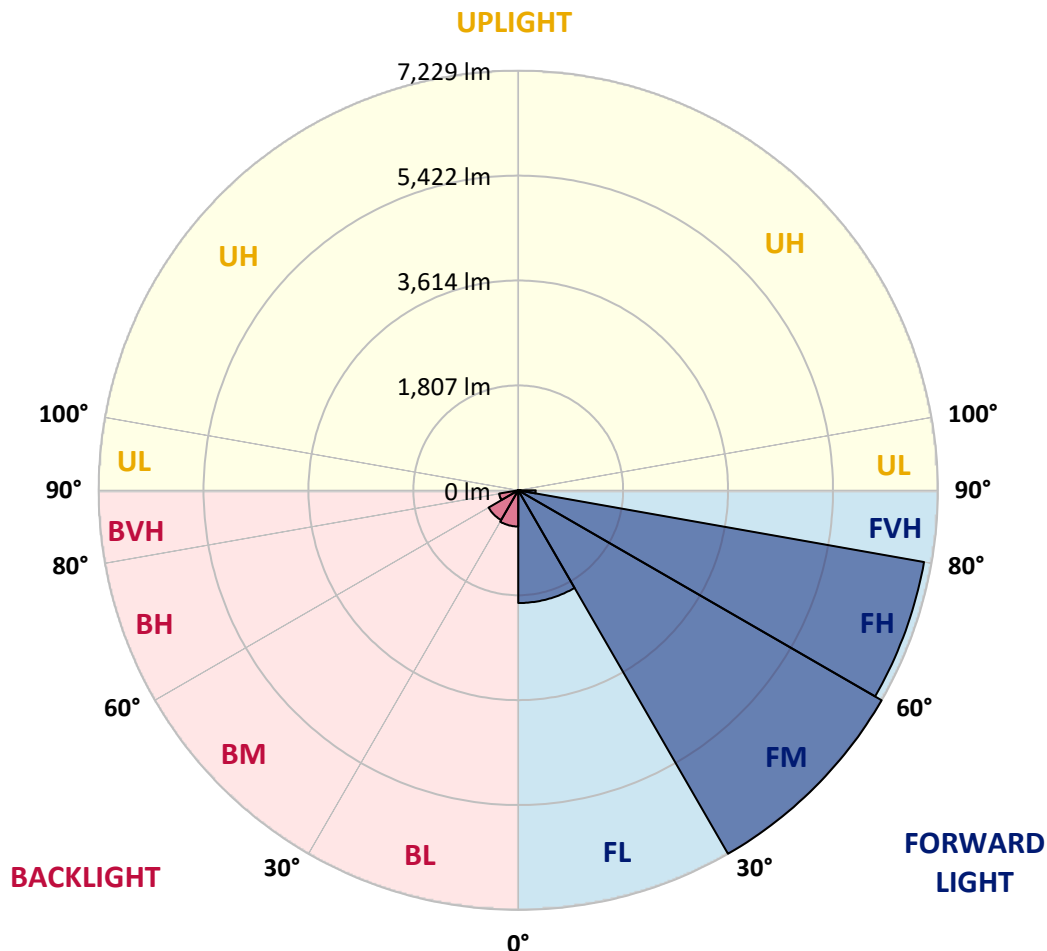
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1941.1	10.7			
FM (30°-60°)	7228.7	39.9			
FH (60°-80°)	7098.2	39.2			G3/7500
FVH (80°-90°)	302.2	1.7			G3/500
BL (0°-30°)	623.0	3.4	B2/1000		
BM (30°-60°)	591.6	3.3	B1/1000		
BH (60°-80°)	333.5	1.8	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5352.9	5352.9	5352.9	5352.9	5352.9	5352.9	5352.9	5352.9	5352.9	5352.9	5352.9
2.5°	5796.7	5782.4	5777.1	5768.0	5733.4	5699.5	5632.4	5613.6	5571.4	5471.2	5364.9
5°	5801.2	5800.4	5816.3	5812.5	5800.4	5784.6	5736.4	5711.5	5639.9	5496.8	5302.4
7.5°	5521.6	5536.0	5571.4	5600.0	5633.2	5676.1	5682.1	5658.0	5599.3	5444.8	5187.1
10°	5146.4	5169.0	5218.7	5275.2	5361.9	5447.8	5524.7	5521.6	5501.3	5349.1	5048.4
12.5°	4770.4	4796.8	4854.0	4937.7	5060.5	5200.7	5337.8	5356.6	5390.5	5263.2	4920.3
15°	4441.1	4463.7	4520.2	4622.7	4774.9	4963.3	5164.5	5199.1	5286.5	5196.1	4813.4
17.5°	4161.6	4175.9	4217.3	4331.1	4507.4	4735.7	4997.2	5065.0	5195.4	5143.4	4720.7
20°	3966.4	3968.7	3995.8	4075.7	4252.0	4507.4	4823.9	4921.1	5098.9	5098.2	4625.0
22.5°	3870.0	3862.4	3867.7	3913.7	4043.3	4289.7	4650.6	4765.9	5012.3	5059.7	4527.8
25°	3851.9	3845.9	3830.8	3836.8	3915.2	4099.0	4475.8	4609.2	4936.2	5036.4	4443.4
27.5°	3908.4	3914.4	3888.8	3861.7	3867.7	3975.5	4320.6	4475.0	4874.4	5036.4	4383.9
30°	4022.2	4025.2	4006.4	3970.9	3923.5	3940.8	4212.8	4367.3	4843.5	5071.0	4346.2
32.5°	4148.0	4164.6	4162.3	4133.7	4065.9	3995.8	4187.2	4328.1	4841.2	5147.9	4342.4
35°	4304.0	4322.8	4354.5	4348.4	4277.6	4162.3	4274.6	4385.4	4885.7	5274.5	4383.1
37.5°	4469.8	4498.4	4566.2	4598.6	4552.6	4422.3	4470.5	4549.6	5004.7	5479.4	4486.3
40°	4630.3	4662.7	4786.2	4913.6	4878.9	4744.8	4767.4	4830.7	5216.5	5774.1	4682.2
42.5°	4787.7	4836.0	5017.6	5227.0	5268.5	5161.5	5173.5	5224.0	5530.7	6179.4	5002.5
45°	4976.1	5030.4	5299.4	5557.8	5668.6	5621.9	5673.1	5706.2	5941.3	6715.2	5434.2
47.5°	5252.6	5315.2	5645.2	5939.8	6134.2	6164.4	6267.6	6289.5	6460.5	7339.1	5997.1
50°	5792.1	5809.5	6107.9	6375.4	6655.7	6836.5	6954.0	6970.6	7088.9	8021.0	6700.1
52.5°	6471.1	6482.4	6651.1	6830.5	7149.2	7518.4	7793.4	7816.8	7841.7	8685.6	7394.1
55°	7145.4	7143.9	7255.4	7360.9	7725.6	8262.1	8858.9	8873.2	8694.6	9316.3	7924.6
57.5°	7566.6	7607.3	7776.9	7912.5	8421.9	9109.8	9937.9	9990.6	9590.5	9783.4	8449.0
60°	7432.5	7452.1	7828.1	8329.9	9289.1	10314.6	11029.7	11043.3	10264.2	10249.8	9112.1
62.5°	6332.4	6343.0	6933.7	7968.3	9728.4	11877.4	12346.8	12126.1	11038.8	10897.1	9905.5
65°	4340.2	4408.7	4902.3	6181.0	8921.4	12857.7	14385.8	14020.4	12219.5	11829.9	10622.8
67.5°	2555.9	2541.6	2785.7	3727.6	6552.4	12206.7	16965.0	16601.8	13829.7	12454.6	10412.6
70°	1745.9	1736.1	1829.5	2256.7	3698.9	9469.2	17776.6	18509.7	15251.6	12034.1	8961.4
72.5°	1246.3	1251.6	1389.5	1753.4	2322.3	5517.1	15287.0	17022.3	14806.3	10491.0	6811.6
75°	846.2	860.5	1057.9	1438.4	2036.0	2806.8	10848.1	12939.8	12056.7	7624.7	3915.2
77.5°	455.1	470.9	703.8	1158.9	1840.8	1950.1	6978.2	8905.6	7573.4	3427.7	1134.8
80°	189.9	198.9	329.3	842.4	1590.6	1712.7	4105.8	5400.3	3227.2	675.9	253.2
82.5°	82.1	86.7	137.1	502.6	1189.0	1446.0	2173.8	2598.1	978.0	148.4	127.3
85°	15.8	16.6	56.5	266.0	758.8	816.0	1409.0	1381.2	439.3	64.0	92.7
87.5°	0.0	0.0	13.6	83.6	223.0	444.6	859.7	849.2	149.2	30.9	34.7
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°	5352.9	5352.9	5352.9	5352.9	5352.9	5352.9	5352.9	5352.9	5352.9	5352.9	5352.9
2.5°	5310.7	5258.7	5149.4	5014.5	4911.3	4797.5	4707.1	4592.6	4542.8	4545.1	4518.0
5°	5191.6	5084.6	4842.7	4537.6	4302.5	4059.9	3851.1	3643.2	3520.3	3480.4	3442.7
7.5°	5021.3	4851.8	4466.0	3995.8	3598.0	3209.2	2870.8	2573.2	2384.8	2292.9	2259.0
10°	4829.2	4591.1	4032.7	3413.4	2845.2	2319.3	1880.7	1499.5	1347.3	1244.0	1217.7
12.5°	4660.4	4337.9	3609.3	2815.8	2141.4	1507.0	1088.8	851.5	748.2	707.5	700.8
15°	4501.4	4101.3	3201.6	2274.8	1482.9	927.6	692.5	611.8	587.7	580.9	580.9
17.5°	4351.5	3876.0	2803.0	1742.1	981.1	650.3	573.4	555.3	547.8	547.0	547.8
20°	4194.7	3650.7	2411.2	1276.4	684.9	550.8	529.7	519.9	517.7	517.7	517.7
22.5°	4044.8	3425.4	2029.9	911.7	549.3	502.6	492.0	485.3	483.0	482.2	480.7
25°	3900.9	3211.4	1657.7	644.2	482.2	460.4	451.3	442.3	435.5	431.8	429.5
27.5°	3782.6	3020.8	1311.1	516.9	435.5	416.7	405.4	391.8	375.2	367.7	364.7
30°	3688.4	2846.7	1010.4	436.3	391.8	373.0	355.7	332.3	308.2	295.4	294.6
32.5°	3614.5	2675.7	767.1	385.8	352.6	329.3	304.4	275.0	247.1	232.8	232.1
35°	3578.4	2525.0	586.2	348.9	318.0	288.6	257.7	225.3	198.2	184.6	183.1
37.5°	3602.5	2397.6	457.4	318.0	288.6	254.7	218.5	184.6	160.5	148.4	147.7
40°	3690.6	2316.3	371.5	291.6	263.7	222.3	183.1	151.5	131.1	121.3	120.6
42.5°	3878.3	2286.1	317.2	269.8	239.6	192.1	152.2	125.1	106.2	99.5	98.0
45°	4191.7	2330.6	280.3	248.7	214.7	163.5	125.8	102.5	85.9	80.6	79.9
47.5°	4609.2	2447.4	253.9	228.3	192.1	137.9	104.7	82.9	70.1	64.8	64.0
50°	5147.2	2632.7	232.1	208.0	171.0	116.8	86.7	65.6	54.3	50.5	50.5
52.5°	5732.6	2853.5	212.5	189.1	149.9	97.2	70.1	50.5	42.9	38.4	38.4
55°	6216.4	3046.4	191.4	174.8	124.3	80.6	53.5	38.4	31.6	29.4	29.4
57.5°	6699.4	3252.1	167.3	149.9	99.5	65.6	40.7	28.6	23.4	21.9	21.9
60°	7325.5	3503.8	143.9	122.1	78.4	49.7	30.1	20.3	17.3	16.6	16.6
62.5°	8014.2	3651.5	122.8	98.0	61.0	36.9	21.9	13.6	12.8	12.8	12.1
65°	8435.4	3442.7	103.2	78.4	47.5	27.9	14.3	9.8	11.3	10.5	9.0
67.5°	7898.2	2695.3	84.4	61.0	36.9	21.1	9.0	6.8	12.1	9.8	7.5
70°	6539.6	1886.8	65.6	42.9	29.4	18.1	6.0	4.5	12.8	9.8	6.0
72.5°	4894.0	1262.9	52.0	28.6	21.9	15.8	5.3	2.3	11.3	8.3	5.3
75°	2674.2	508.6	41.4	18.1	13.6	11.3	3.8	1.5	7.5	6.0	3.8
77.5°	703.8	134.1	30.1	12.1	7.5	4.5	2.3	0.8	3.8	3.0	1.5
80°	179.3	52.0	19.6	8.3	5.3	2.3	0.0	0.0	0.8	0.0	0.0
82.5°	95.7	21.9	12.1	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	72.3	14.3	6.8	3.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.9	4.5	2.3	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)