

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: P321869

Luminaire Tested: **GAN-SA5A-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15089 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

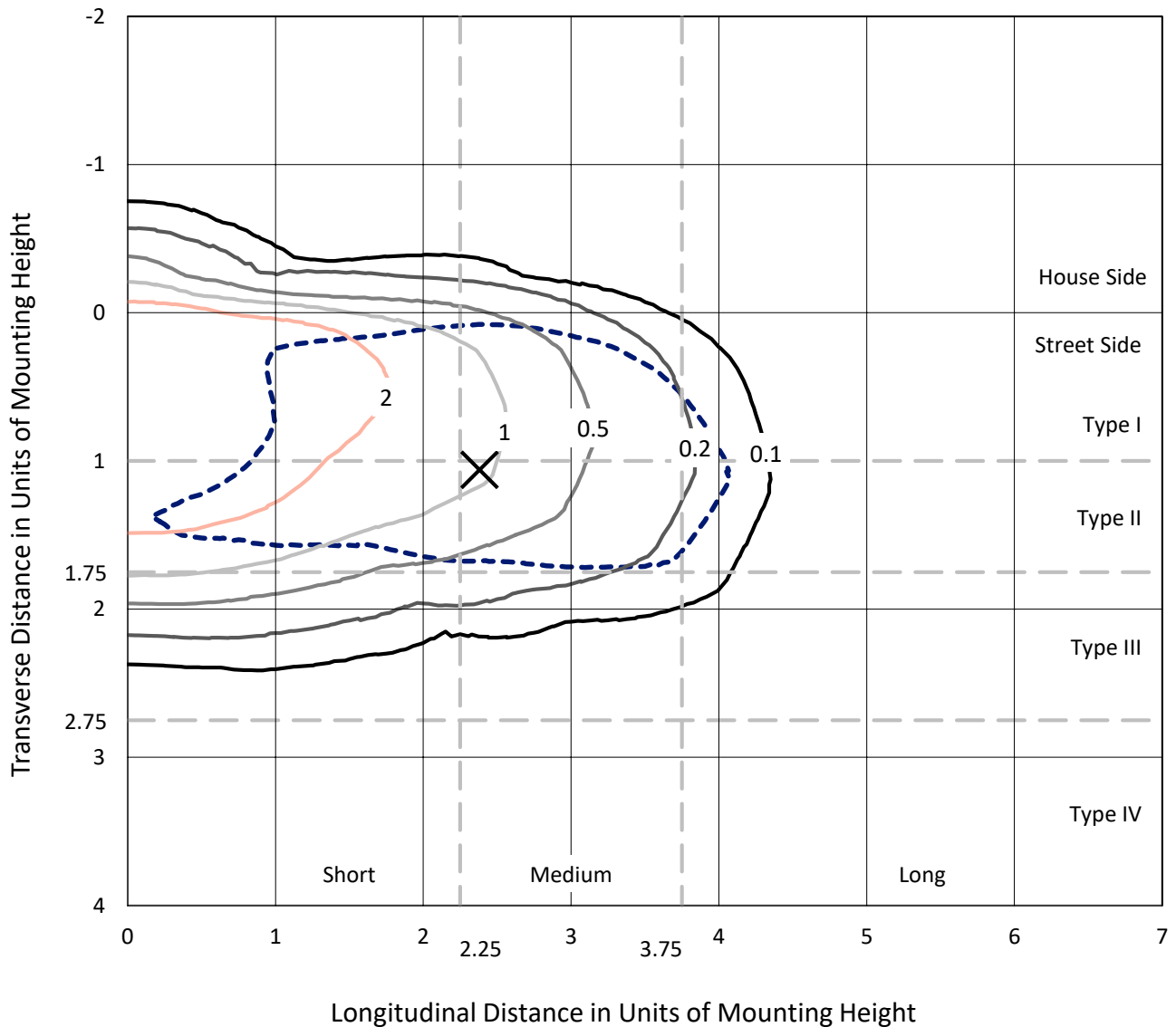
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

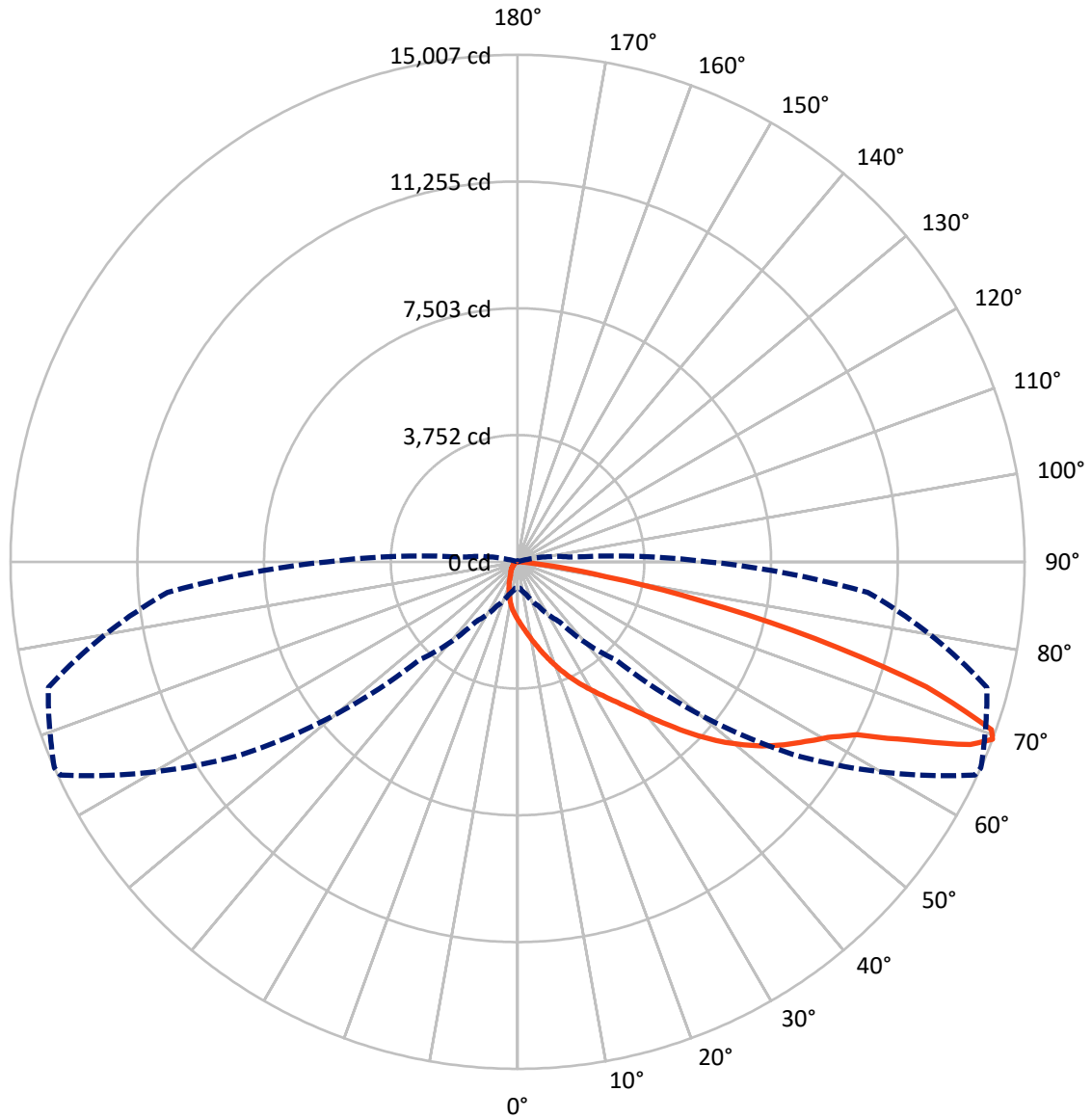
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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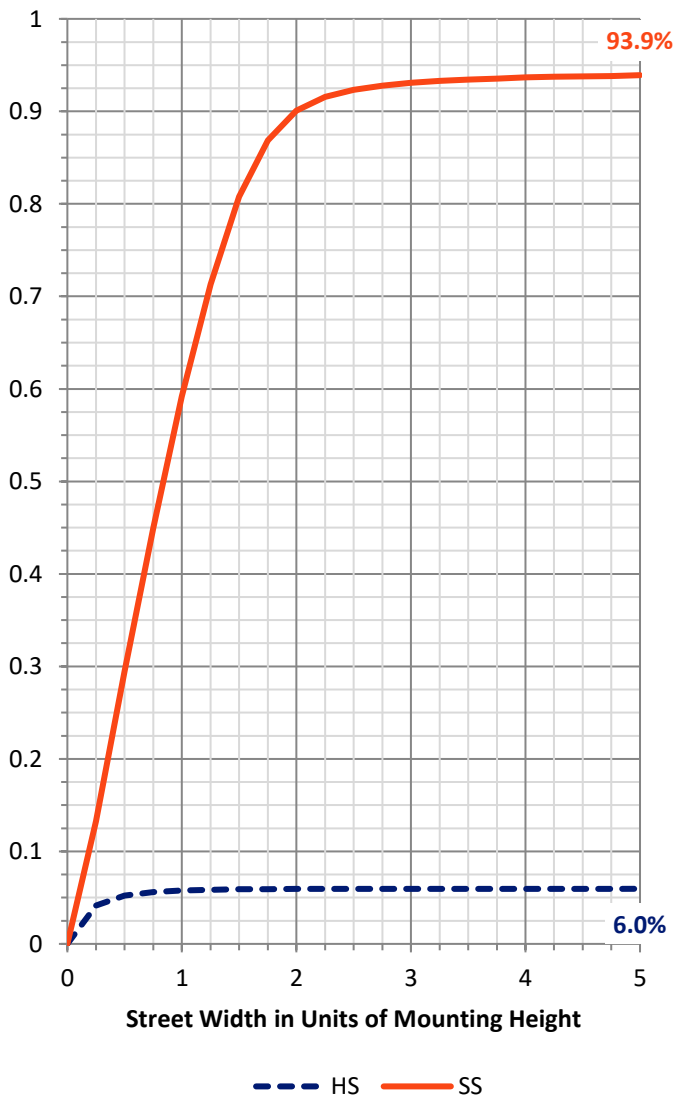
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	905.1	0.0	905.1
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	14183.9	0.0	14183.9
	% Fixture	94.0	0.0	94.0
Total	Lumens	15089.0	0.0	15089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.0	1.1
10°-20°	494.0	3.3
20°-30°	860.3	5.7
30°-40°	1509.3	10.0
40°-50°	2526.4	16.7
50°-60°	3713.5	24.6
60°-70°	3812.8	25.3
70°-80°	1882.3	12.5
80°-90°	124.5	0.8
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°	15089.0	100.0
0°-180°	15089.0	100.0

Coefficient of Utilization

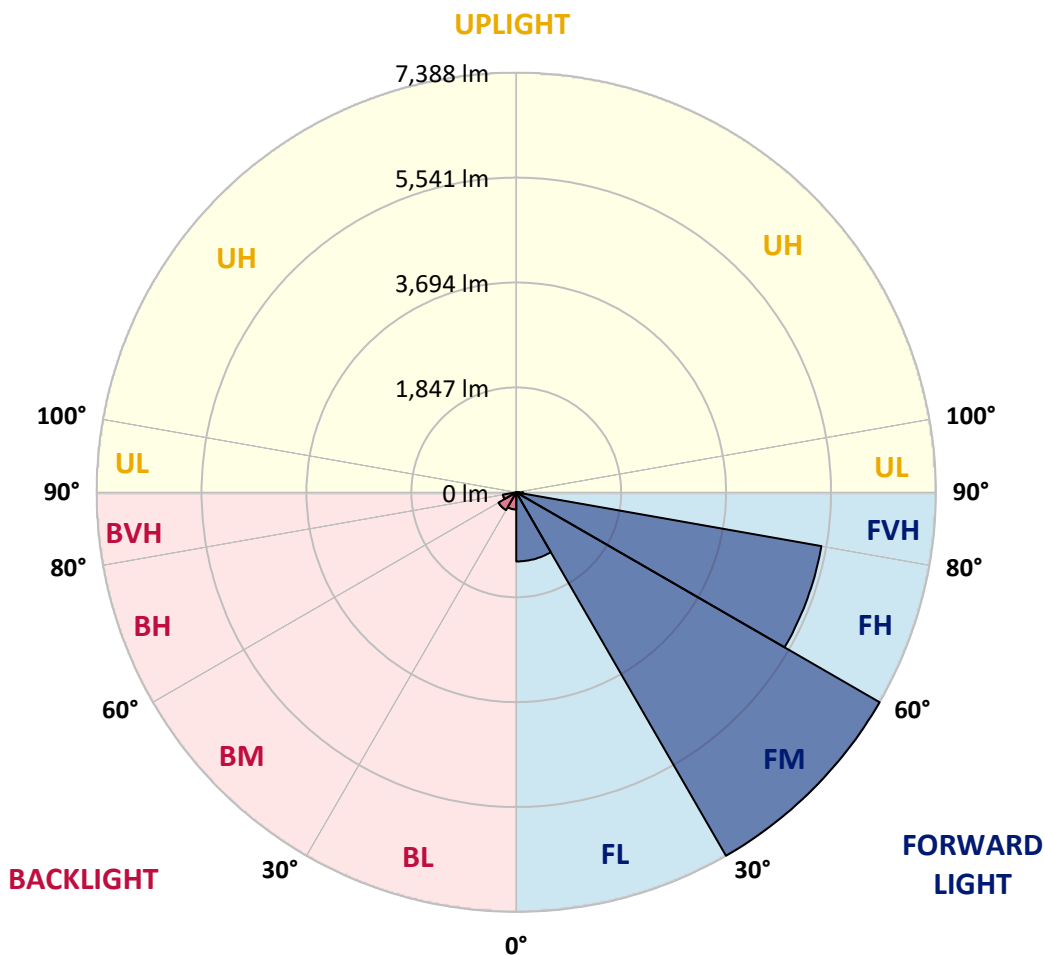


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1217.5	8.1			
FM (30°-60°)	7388.3	49.0			
FH (60°-80°)	5456.6	36.2			G3/7500
FVH (80°-90°)	121.5	0.8			G2/225
BL (0°-30°)	302.7	2.0	B1/500		
BM (30°-60°)	360.9	2.4	B1/1000		
BH (60°-80°)	238.5	1.6	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1717.2	1717.2	1717.2	1717.2	1717.2	1717.2	1717.2	1717.2	1717.2	1717.2	1717.2
2.5°	2021.1	2012.5	2008.9	1993.1	1965.9	1945.1	1904.9	1858.4	1849.8	1804.6	1749.4
5°	2283.4	2276.2	2271.2	2249.0	2221.0	2168.7	2095.6	2008.9	1992.4	1906.4	1796.0
7.5°	2466.1	2479.0	2479.0	2464.7	2429.6	2390.1	2300.6	2182.3	2161.5	2029.7	1858.4
10°	2572.9	2588.7	2600.8	2613.0	2608.0	2592.2	2507.7	2374.4	2349.3	2174.4	1930.7
12.5°	2582.9	2598.7	2633.1	2684.0	2733.4	2769.3	2716.2	2587.2	2558.6	2342.1	2016.8
15°	2527.0	2543.5	2596.5	2695.5	2815.1	2919.8	2937.0	2823.0	2793.6	2542.1	2124.3
17.5°	2429.6	2440.3	2516.3	2653.2	2840.9	3033.0	3136.9	3076.0	3048.8	2770.7	2243.9
20°	2357.2	2365.1	2431.7	2578.6	2825.2	3104.0	3326.1	3344.8	3316.1	3015.8	2373.7
22.5°	2481.2	2495.5	2497.6	2567.2	2782.2	3139.1	3492.4	3609.2	3587.7	3276.0	2501.2
25°	2820.2	2836.6	2782.2	2739.2	2818.7	3154.8	3635.0	3880.1	3862.9	3556.2	2629.5
27.5°	3268.1	3285.3	3215.0	3086.8	3010.1	3214.3	3761.9	4155.3	4154.6	3852.9	2767.8
30°	3708.1	3725.3	3653.7	3525.4	3349.1	3382.8	3871.5	4443.4	4447.7	4158.9	2914.8
32.5°	4169.7	4191.2	4117.4	3952.5	3768.3	3673.7	4025.6	4733.0	4757.4	4513.7	3080.3
35°	4694.3	4697.2	4593.2	4420.5	4208.4	4062.9	4272.9	5057.6	5115.7	4953.0	3290.3
37.5°	5208.9	5229.6	5144.4	4872.0	4677.1	4512.2	4640.5	5463.3	5545.7	5489.8	3564.8
40°	5590.1	5633.9	5621.7	5327.8	5142.9	5025.4	5097.1	5945.6	6050.3	6114.8	3910.9
42.5°	5829.5	5862.5	5918.4	5741.4	5573.7	5593.0	5636.0	6507.5	6636.5	6827.1	4308.7
45°	6104.0	6119.8	6166.4	6088.2	5975.0	6169.9	6207.9	7140.3	7275.8	7593.3	4750.2
47.5°	6439.4	6476.7	6489.6	6417.9	6366.3	6680.2	6759.1	7715.8	7905.7	8413.9	5217.5
50°	6866.6	6876.6	6898.8	6852.2	6800.6	7118.8	7253.6	8320.0	8492.7	9237.3	5678.3
52.5°	7284.4	7320.2	7397.6	7368.2	7347.5	7492.2	7694.3	8864.7	9057.5	9923.9	6138.4
55°	7404.8	7435.6	7702.9	7885.7	8054.8	7952.3	8115.7	9352.7	9561.3	10537.4	6581.3
57.5°	6923.9	6986.2	7449.2	7925.1	8626.7	8667.6	8694.8	9853.7	10040.8	11007.6	7042.1
60°	5708.4	5720.6	6480.3	7296.6	8532.1	9291.8	9540.5	10391.9	10548.9	11445.5	7594.0
62.5°	3630.7	3754.7	4588.2	5740.6	7531.6	9201.5	10563.2	11206.1	11263.4	11970.8	8385.2
65°	1729.4	1809.6	2410.2	3546.9	5455.4	8045.5	11269.2	12678.9	12704.7	13012.1	9442.3
67.5°	957.5	996.2	1282.1	1909.2	3189.2	5689.8	10983.9	14423.3	14447.6	14075.7	10369.7
69°	748.9	781.9	1006.9	1439.1	2162.2	4089.4	9939.7	14934.3	15006.7	14380.3	10402.7
70°	635.7	668.0	867.2	1215.5	1738.7	3159.9	8847.5	14807.4	14884.1	14351.6	10156.9
72.5°	389.2	407.8	577.6	855.7	1165.3	1589.6	5456.1	12522.6	12652.4	13164.8	8729.2
75°	262.3	272.3	361.2	590.5	833.5	818.5	2834.5	8826.7	9107.6	10240.7	6447.3
77.5°	187.8	197.1	242.2	382.0	584.1	540.4	1283.6	5485.5	5545.7	6142.0	3516.1
80°	106.8	115.4	171.3	227.2	396.3	360.5	510.3	2620.2	2650.3	2633.8	1173.9
82.5°	55.9	63.1	93.9	149.8	254.4	235.8	212.1	877.2	881.5	733.2	257.3
85°	10.8	12.9	46.6	102.5	131.2	102.5	86.7	205.7	210.0	185.6	63.8
87.5°	0.0	0.7	18.6	22.9	25.8	26.5	28.0	40.1	43.0	58.1	17.2
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°	1717.2	1717.2	1717.2	1717.2	1717.2	1717.2	1717.2	1717.2	1717.2	1717.2	1717.2
2.5°	1725.1	1699.3	1649.8	1592.5	1548.0	1504.3	1469.9	1434.1	1421.2	1414.7	1414.0
5°	1742.3	1687.8	1583.2	1475.7	1387.5	1304.4	1244.9	1188.3	1161.7	1149.6	1144.5
7.5°	1770.9	1683.5	1515.1	1351.0	1224.1	1120.2	1037.8	976.1	945.3	932.4	927.4
10°	1804.6	1677.8	1435.5	1219.1	1057.1	949.6	867.9	807.0	773.3	759.0	751.8
12.5°	1844.0	1667.7	1343.8	1085.8	914.5	807.0	708.1	632.8	594.1	577.6	569.8
15°	1892.8	1657.7	1247.7	960.4	789.1	657.9	549.7	498.8	490.9	488.1	488.8
17.5°	1940.8	1641.9	1143.1	836.4	657.2	513.9	458.7	455.8	457.2	457.2	457.2
20°	1983.8	1606.1	1029.2	730.3	531.8	433.6	422.1	417.1	413.5	410.7	407.1
22.5°	2017.5	1558.1	919.5	624.9	434.3	397.0	379.1	363.4	350.5	341.9	337.6
25°	2040.4	1494.3	819.2	523.9	390.6	361.2	329.0	302.4	282.4	270.2	265.2
27.5°	2057.6	1425.5	729.6	438.6	360.5	319.6	277.4	245.8	225.0	214.3	210.0
30°	2069.8	1347.4	650.7	385.6	326.8	275.9	230.8	200.0	184.9	179.2	176.3
32.5°	2081.3	1260.6	576.2	360.5	295.3	235.8	193.5	169.9	160.5	153.4	151.2
35°	2109.9	1180.4	505.3	334.0	263.0	201.4	166.3	149.1	139.8	135.5	134.0
37.5°	2178.0	1120.9	437.2	306.7	230.8	174.2	145.5	133.3	124.7	120.4	119.0
40°	2287.7	1090.8	379.8	277.4	199.2	153.4	131.9	120.4	111.1	104.6	103.2
42.5°	2448.9	1095.1	339.7	248.0	174.2	136.9	119.0	105.4	95.3	89.6	88.2
45°	2644.6	1126.6	311.8	219.3	153.4	124.0	104.6	90.3	81.0	76.0	74.5
47.5°	2856.7	1177.5	288.8	193.5	136.9	111.8	90.3	75.3	67.4	63.1	62.4
50°	3080.3	1227.0	265.2	168.4	122.6	99.6	76.0	62.4	55.9	52.3	50.9
52.5°	3306.8	1284.3	243.7	145.5	110.4	85.3	63.1	50.9	45.9	43.0	41.6
55°	3550.5	1327.3	222.9	127.6	98.2	72.4	52.3	42.3	38.0	34.4	33.7
57.5°	3837.1	1394.0	201.4	110.4	83.9	60.2	43.0	33.7	30.1	26.5	25.8
60°	4224.1	1472.1	178.5	97.5	68.8	49.5	35.1	27.2	22.9	20.1	19.4
62.5°	4734.4	1558.8	149.8	85.3	55.9	40.1	28.0	21.5	16.5	12.9	12.9
65°	5381.6	1700.0	122.6	71.7	45.9	33.0	21.5	15.8	9.3	5.7	5.7
67.5°	5759.3	1724.3	98.9	58.8	37.3	28.0	17.9	10.8	2.9	0.7	0.0
69°	5638.2	1583.2	83.9	50.2	32.3	26.5	16.5	7.9	1.4	0.0	0.0
70°	5410.3	1447.7	73.8	44.4	29.4	25.1	15.8	5.7	1.4	0.0	0.0
72.5°	4470.7	1030.6	55.9	33.0	21.5	22.2	14.3	3.6	1.4	0.0	0.0
75°	3256.6	626.4	40.1	22.9	13.6	16.5	10.0	1.4	0.7	0.0	0.0
77.5°	1811.8	295.3	25.1	12.9	8.6	10.0	5.0	0.0	0.0	0.0	0.0
80°	588.4	80.3	11.5	7.2	5.0	5.7	2.2	0.0	0.0	0.0	0.0
82.5°	108.9	22.9	6.5	3.6	1.4	1.4	0.0	0.0	0.0	0.0	0.0
85°	23.7	9.3	3.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	2.9	0.7	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)