

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: P383408

Luminaire Tested: **GAN-SA7A-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383408
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-SA7A-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA 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: 22254.7 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

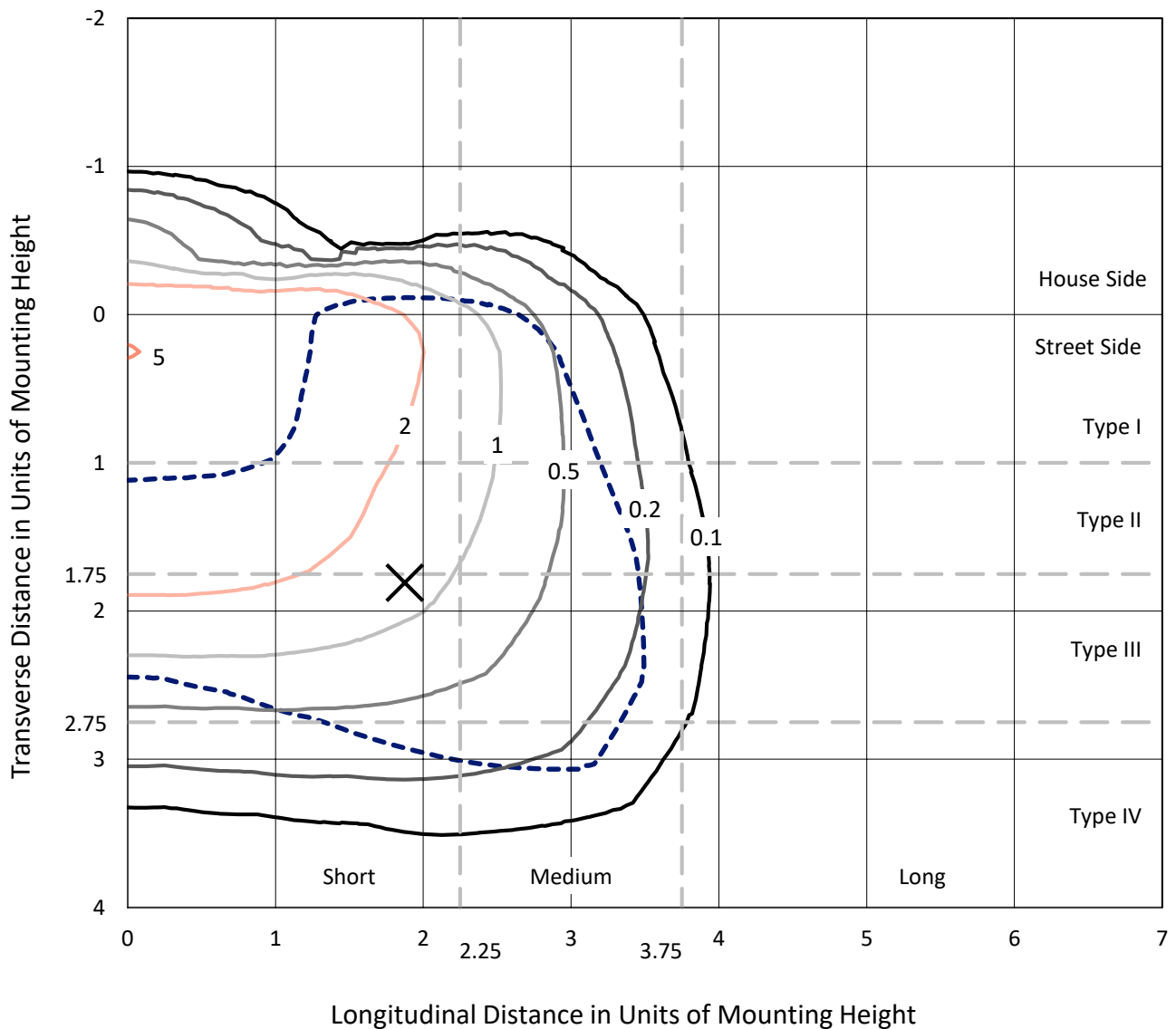
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

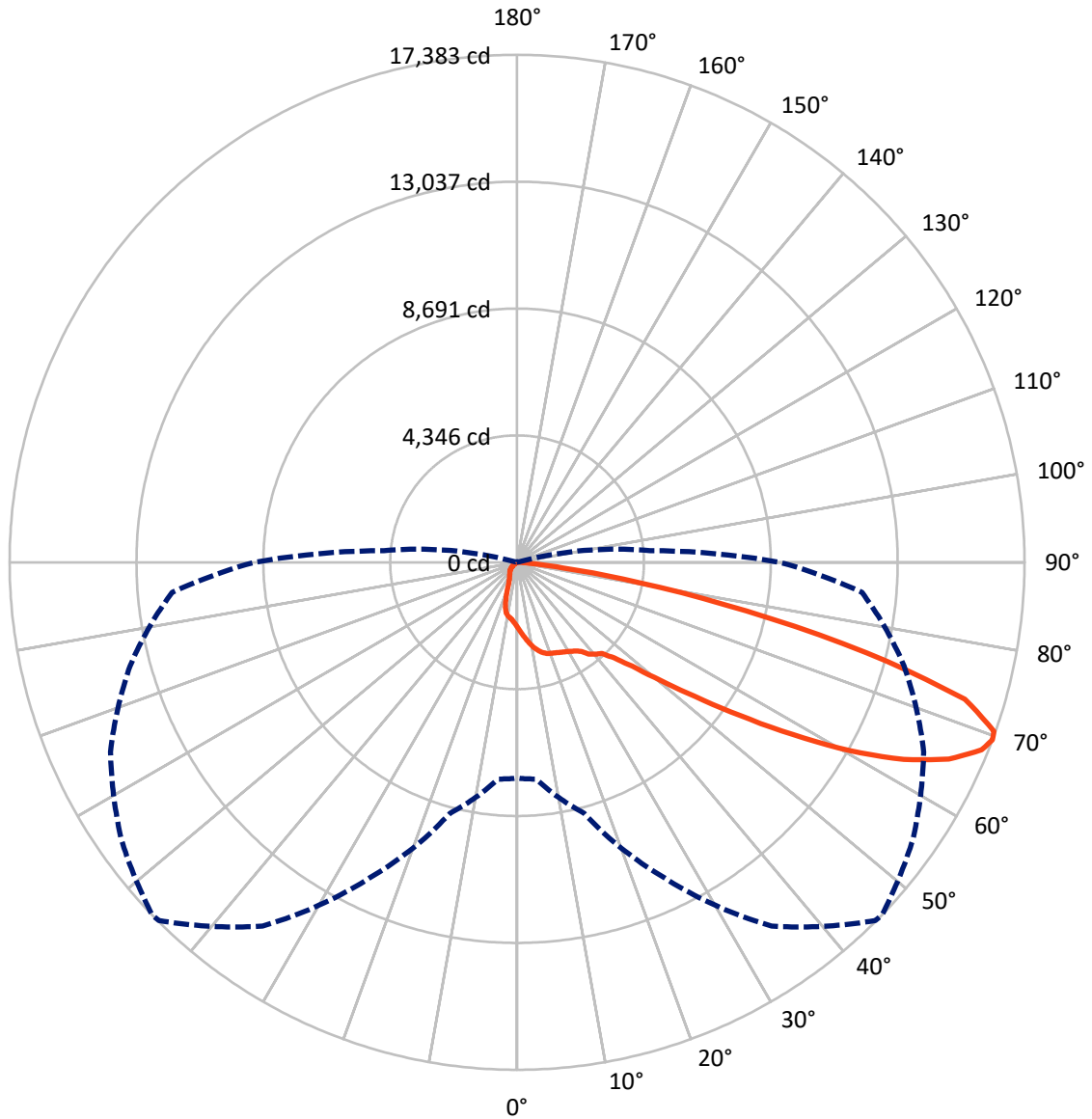
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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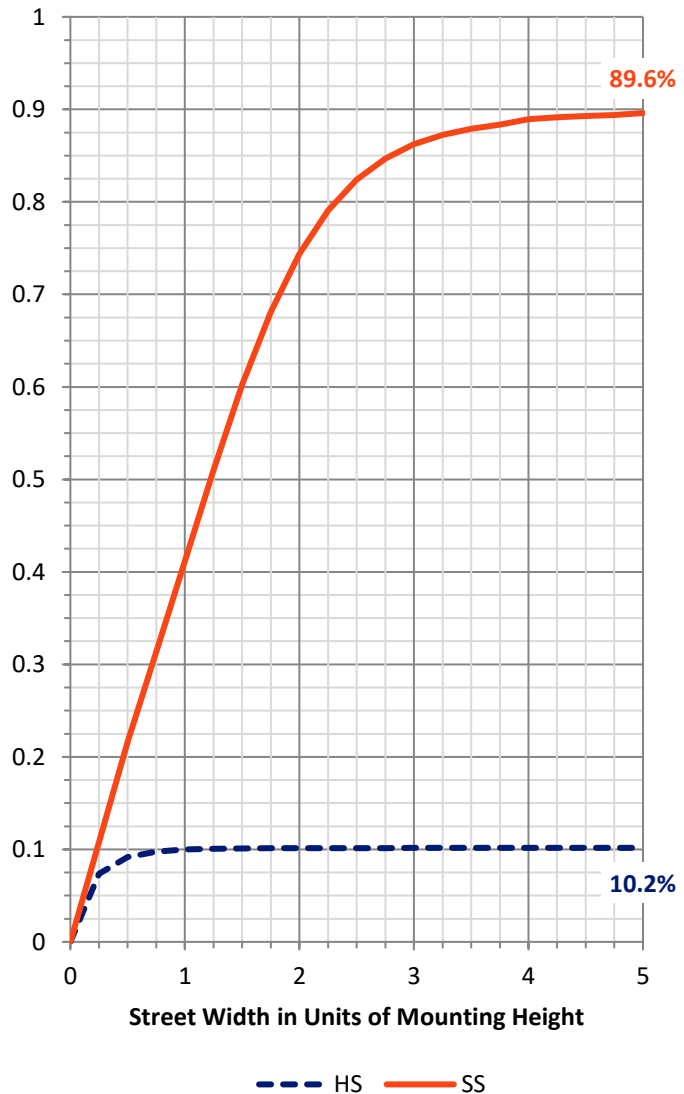
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2283.9	0.0	2283.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	19970.7	0.0	19970.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	22254.7	0.0	22254.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.9	1.0
10°-20°	673.3	3.0
20°-30°	1058.9	4.8
30°-40°	1518.5	6.8
40°-50°	2624.5	11.8
50°-60°	5185.0	23.3
60°-70°	7246.5	32.6
70°-80°	3500.9	15.7
80°-90°	225.0	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°	22254.7	100.0
0°-180°	22254.7	100.0

Coefficient of Utilization

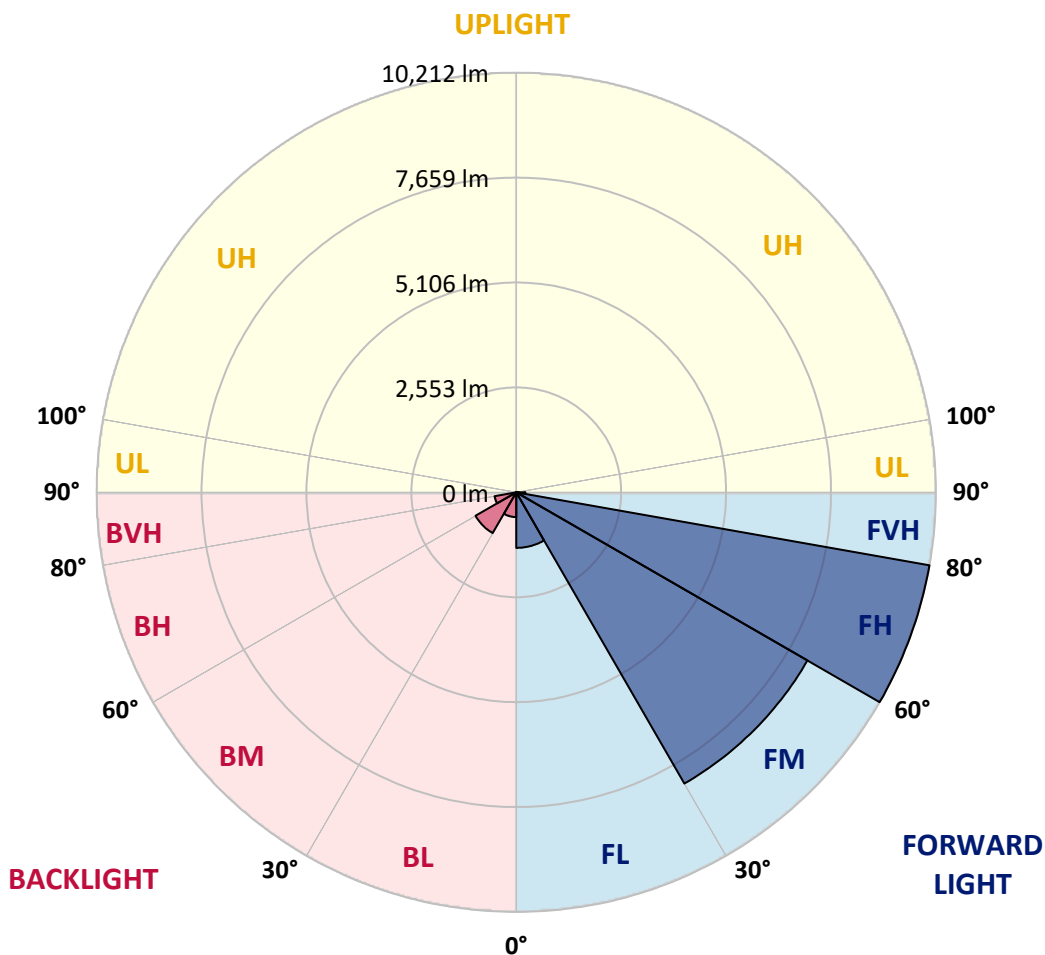


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1352.2	6.1			
FM (30°-60°)	8183.5	36.8			
FH (60°-80°)	10211.8	45.9			G4/12000
FVH (80°-90°)	223.1	1.0			G2/225
BL (0°-30°)	602.0	2.7	B2/1000		
BM (30°-60°)	1144.5	5.1	B2/2500		
BH (60°-80°)	535.5	2.4	B2/1000		G2/1000
BVH (80°-90°)	1.9	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8
2.5°	2477.2	2474.0	2459.4	2453.1	2417.6	2396.8	2388.4	2362.3	2324.8	2287.2	2245.5
5°	2758.9	2757.8	2730.6	2704.6	2637.9	2575.2	2563.7	2503.3	2418.7	2339.4	2260.1
7.5°	3046.8	3033.3	3006.2	2956.1	2859.0	2758.9	2749.5	2663.9	2543.9	2429.1	2315.4
10°	3291.0	3282.7	3247.2	3171.0	3057.2	2943.5	2932.0	2826.7	2691.1	2550.2	2405.2
12.5°	3480.9	3474.7	3427.7	3332.8	3211.7	3093.8	3078.1	2984.2	2839.2	2681.6	2510.5
15°	3596.7	3593.6	3536.2	3435.0	3316.0	3213.8	3200.2	3117.8	2983.2	2818.3	2625.3
17.5°	3623.9	3624.9	3565.4	3463.2	3365.1	3292.1	3281.7	3219.1	3106.3	2942.5	2740.1
20°	3563.4	3575.8	3522.6	3434.0	3373.4	3334.8	3326.5	3288.9	3194.0	3039.5	2831.9
22.5°	3477.7	3484.1	3447.6	3388.0	3363.0	3370.3	3366.1	3345.3	3264.9	3123.0	2922.6
25°	3425.6	3425.6	3403.7	3353.7	3370.3	3415.1	3416.3	3412.1	3348.4	3225.3	3033.3
27.5°	3423.5	3417.3	3392.2	3354.7	3400.6	3469.5	3473.6	3501.8	3462.1	3349.5	3171.0
30°	3507.0	3499.7	3446.4	3397.4	3455.9	3530.0	3540.4	3601.9	3582.2	3484.1	3324.4
32.5°	3702.2	3676.1	3558.1	3477.7	3521.6	3610.3	3623.9	3722.0	3753.3	3650.0	3472.5
35°	3969.2	3886.8	3716.8	3630.1	3634.3	3727.2	3739.7	3883.7	3976.6	3802.3	3587.4
37.5°	4337.6	4296.9	4020.4	3788.7	3807.5	3948.4	3984.9	4141.4	4115.3	3885.8	3717.8
40°	5145.2	5081.6	4787.3	4233.2	3973.4	4127.9	4139.3	4222.8	4224.9	4074.7	3989.1
42.5°	6245.0	6218.9	5909.0	5039.9	4300.0	4247.9	4268.7	4409.6	4567.1	4473.2	4469.1
45°	7462.7	7449.1	7120.5	6110.4	4960.5	4641.2	4667.3	4856.2	5157.7	5178.6	5311.1
47.5°	8442.5	8436.2	8247.4	7305.1	5971.6	5308.0	5316.3	5516.7	6046.8	6308.6	6520.5
50°	9335.7	9366.0	9216.7	8598.0	7349.0	6352.5	6332.7	6466.2	7317.7	7746.5	8009.4
52.5°	10577.4	10620.1	10201.8	9804.2	8794.1	7648.5	7632.8	7772.6	8845.2	9166.6	9213.6
55°	11674.1	11601.0	11270.2	11155.5	10556.5	9249.1	9244.9	9368.0	10322.8	10459.4	10546.1
57.5°	12158.2	12130.1	12289.6	12552.6	12402.3	11140.8	11131.4	11037.5	11644.8	11659.4	11925.5
60°	12463.9	12498.4	12987.7	13798.5	14173.0	13176.6	13116.1	12543.2	12907.3	12875.0	13159.9
62.5°	12234.4	12302.2	13182.9	14534.1	15498.3	14953.6	14868.0	13922.6	13986.3	13874.7	14139.7
65°	11015.6	11121.0	12564.1	14395.3	16155.6	16342.4	16255.8	15140.3	14843.0	14659.3	14512.2
67.5°	8944.3	9006.9	10513.7	13188.1	15859.2	17170.8	17153.1	16207.8	15489.9	14526.8	13385.3
69°	7391.7	7453.3	8903.7	11917.1	15207.1	17348.3	17382.7	16550.1	15366.8	13721.2	11859.7
70°	6260.7	6326.4	7677.6	10827.8	14450.6	17265.9	17327.4	16517.6	15014.1	12788.4	10521.0
72.5°	3283.7	3340.1	4726.8	7459.6	11780.4	15854.0	16040.8	15121.5	12726.9	9287.7	6221.0
75°	1032.0	1064.3	1845.9	3899.4	8065.8	12327.3	12370.0	11861.9	9037.2	5108.7	2590.8
77.5°	393.4	384.0	614.5	1436.8	4077.8	7762.1	8024.1	7412.6	4742.4	1806.2	597.9
80°	211.8	212.9	319.3	594.8	1744.6	3989.1	4210.3	3592.6	1685.2	563.5	137.8
82.5°	91.9	96.0	179.5	315.1	801.3	1471.3	1581.9	1316.8	643.8	378.8	51.1
85°	19.8	21.9	86.6	171.1	326.6	413.2	433.0	426.7	410.1	294.3	19.8
87.5°	0.0	0.0	38.6	61.6	82.4	93.9	82.4	107.5	226.5	198.2	10.4
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°	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8
2.5°	2231.9	2213.2	2180.8	2145.4	2120.3	2094.2	2073.3	2063.9	2053.5	2046.1	2055.6
5°	2227.7	2191.2	2128.6	2068.1	2024.3	1988.8	1959.6	1948.1	1936.6	1928.3	1927.3
7.5°	2264.3	2213.2	2117.1	2028.4	1960.6	1912.7	1873.0	1856.3	1842.7	1836.5	1831.2
10°	2334.2	2268.4	2140.1	2024.3	1936.6	1855.3	1769.7	1704.0	1661.1	1641.3	1634.0
12.5°	2425.0	2342.6	2183.9	2046.1	1918.9	1762.4	1580.8	1424.3	1323.1	1289.7	1269.9
15°	2531.4	2429.1	2241.3	2074.4	1854.2	1568.3	1260.5	1056.0	962.0	943.3	922.4
17.5°	2633.7	2521.0	2310.1	2079.6	1712.3	1253.2	923.4	784.6	748.1	760.7	763.8
20°	2723.4	2611.8	2378.0	2033.7	1454.5	940.1	714.8	680.3	693.9	717.9	722.0
22.5°	2814.2	2699.3	2440.7	1912.7	1124.8	713.8	643.8	652.2	665.7	689.7	693.9
25°	2924.8	2805.8	2499.1	1690.4	844.2	607.3	611.5	624.0	637.6	659.4	661.6
27.5°	3052.0	2940.4	2537.6	1401.3	626.1	558.3	571.8	590.6	604.1	625.0	629.2
30°	3221.1	3117.8	2550.2	1101.8	524.8	514.4	520.6	543.7	563.5	582.2	585.4
32.5°	3379.7	3293.1	2508.5	831.6	486.3	473.7	473.7	487.3	510.2	528.0	532.2
35°	3525.8	3469.5	2374.9	608.3	457.0	436.2	425.7	425.7	440.3	455.0	459.2
37.5°	3718.8	3716.8	2158.9	485.2	428.9	404.9	383.0	366.3	361.1	364.1	366.3
40°	4049.6	4052.7	1877.2	435.1	404.9	372.5	339.1	308.9	280.7	271.3	270.2
42.5°	4566.1	4519.1	1581.9	411.1	384.0	339.1	289.1	248.4	204.5	191.0	189.9
45°	5386.2	5107.7	1268.9	389.2	362.1	301.5	238.9	183.6	148.2	137.8	137.8
47.5°	6581.0	5880.9	982.9	365.2	332.8	258.8	180.5	132.6	108.5	103.3	104.3
50°	7816.4	6638.4	753.3	335.0	297.3	213.9	133.6	96.0	82.4	82.4	83.5
52.5°	8912.0	7193.5	587.4	302.6	253.6	168.0	101.3	75.1	68.8	67.8	68.8
55°	9937.7	7551.4	449.8	265.0	201.4	125.2	77.2	61.6	57.4	55.3	54.2
57.5°	10927.0	7728.8	337.0	213.9	146.1	90.8	61.6	52.2	48.0	44.9	43.8
60°	11585.4	7584.8	231.7	157.5	101.3	65.8	51.1	44.9	39.7	36.5	35.5
62.5°	11956.8	7191.4	149.2	113.7	72.0	49.0	40.7	37.5	30.3	27.1	27.1
65°	11806.5	6542.4	104.3	81.4	52.2	36.5	30.3	30.3	21.9	17.7	16.7
67.5°	10462.6	5527.2	79.3	60.6	37.5	27.1	22.9	26.1	13.6	8.4	8.4
69°	9001.7	4580.7	67.8	50.1	31.3	21.9	19.8	24.0	9.4	6.2	5.2
70°	7823.7	3951.5	61.6	43.8	26.1	18.8	17.7	22.9	9.4	5.2	4.2
72.5°	4680.8	2203.8	46.9	31.3	16.7	14.6	14.6	26.1	9.4	5.2	4.2
75°	1891.8	776.4	34.5	21.9	12.5	12.5	17.7	33.3	8.4	4.2	3.2
77.5°	428.9	170.1	19.8	13.6	8.4	12.5	20.9	26.1	5.2	2.0	0.0
80°	104.3	41.7	12.5	8.4	5.2	9.4	15.6	14.6	1.0	0.0	0.0
82.5°	34.5	14.6	5.2	4.2	1.0	3.2	7.3	4.2	0.0	0.0	0.0
85°	14.6	8.4	2.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
87.5°	9.4	3.2	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)