

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: P323817

Luminaire Tested: **GAN-SA3D-730-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17509 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

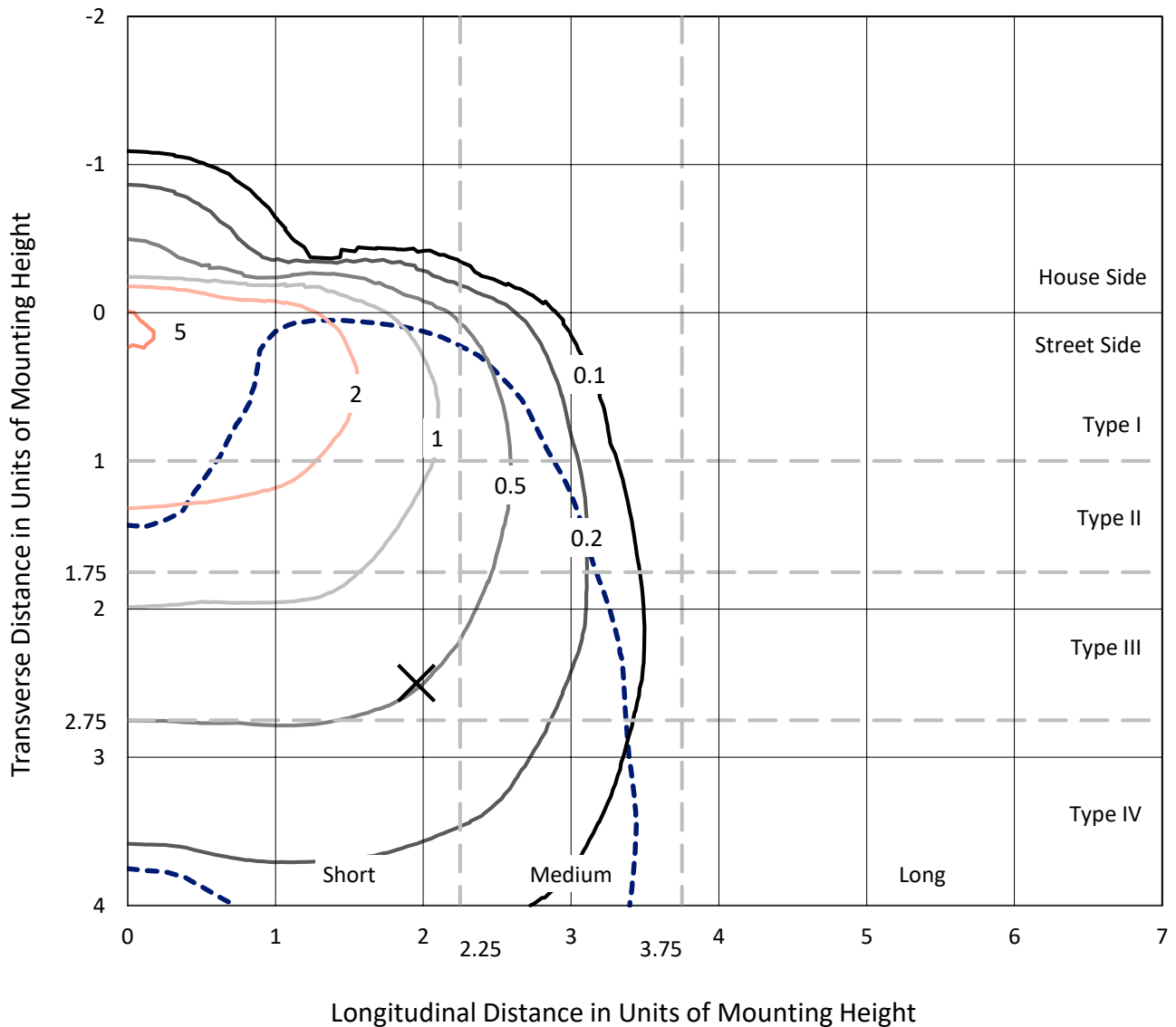
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

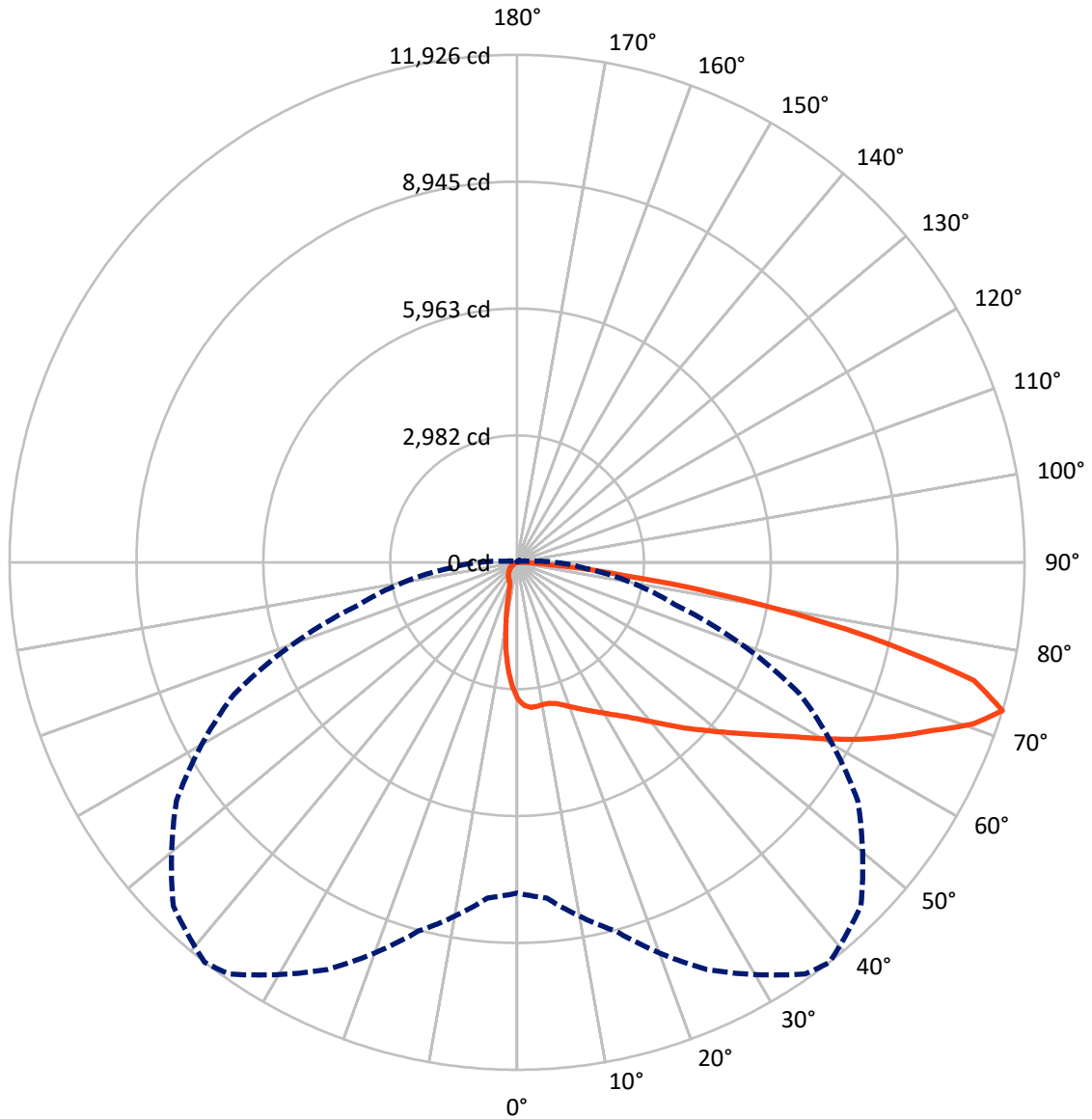
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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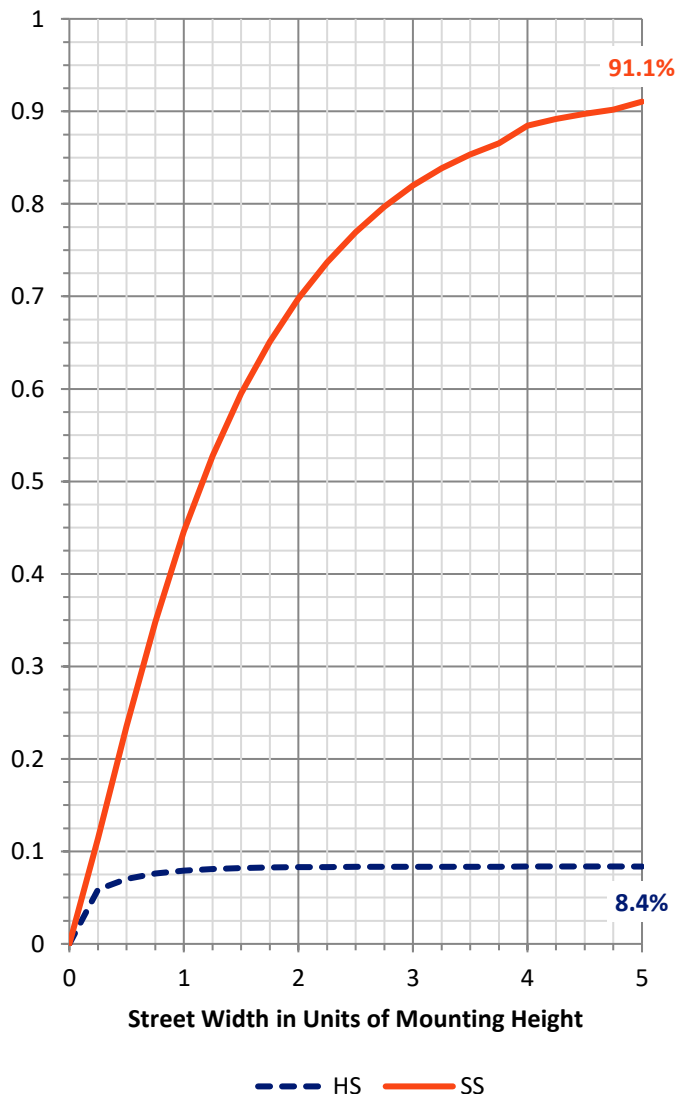
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1473.4	0.0	1473.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	16035.5	0.0	16035.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	17509.0	0.0	17509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.4	1.6
10°-20°	671.0	3.8
20°-30°	1067.1	6.1
30°-40°	1604.3	9.2
40°-50°	2447.5	14.0
50°-60°	3459.1	19.8
60°-70°	4338.9	24.8
70°-80°	3244.3	18.5
80°-90°	402.3	2.3
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°	17509.0	100.0
0°-180°	17509.0	100.0

Coefficient of Utilization

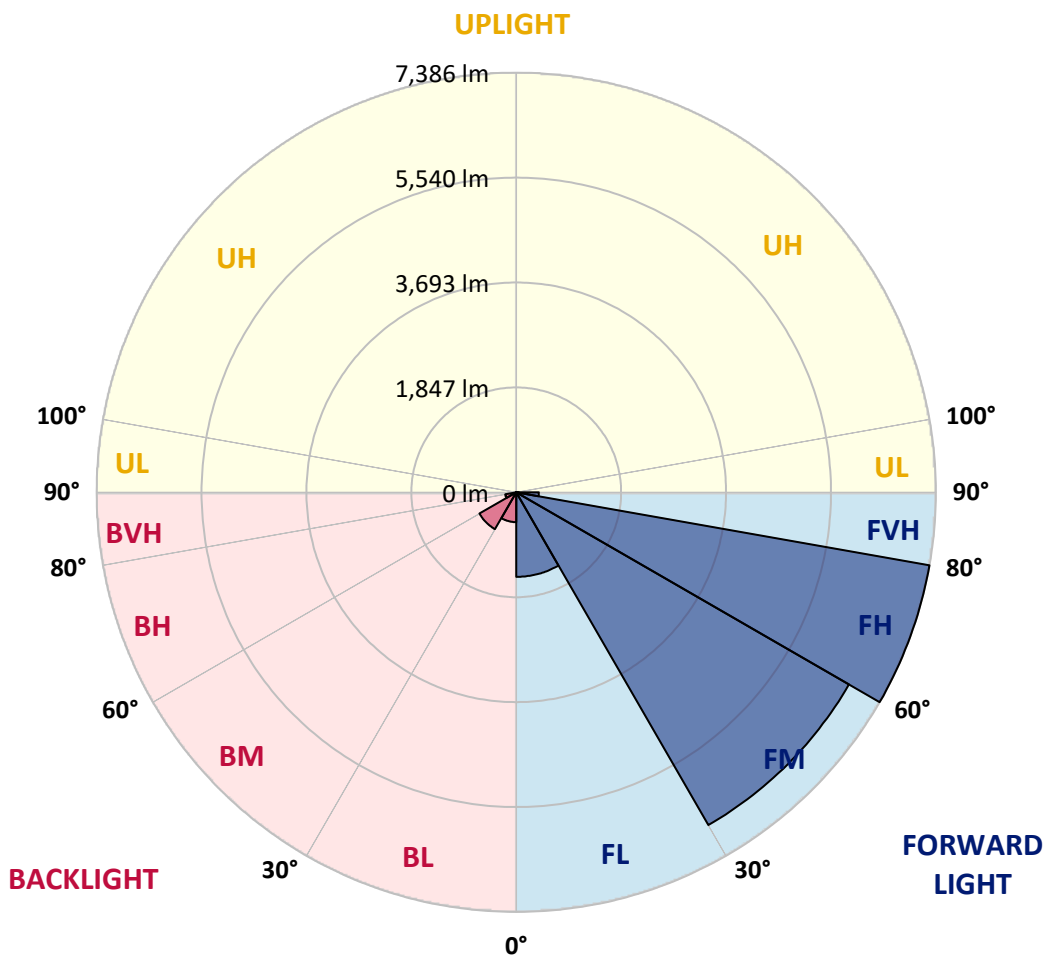


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1487.8	8.5			
FM (30°-60°)	6762.8	38.6			
FH (60°-80°)	7386.4	42.2			G3/7500
FVH (80°-90°)	398.5	2.3			G3/500
BL (0°-30°)	524.6	3.0	B2/1000		
BM (30°-60°)	748.2	4.3	B1/1000		
BH (60°-80°)	196.8	1.1	B1/500		G1/500
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: B2-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3219.8	3219.8	3219.8	3219.8	3219.8	3219.8	3219.8	3219.8	3219.8	3219.8	3219.8
2.5°	3417.6	3418.4	3410.4	3397.3	3380.5	3371.8	3357.3	3334.0	3309.3	3264.9	3216.9
5°	3487.4	3487.4	3477.3	3459.8	3432.9	3424.9	3397.3	3360.2	3309.3	3237.3	3156.6
7.5°	3480.2	3481.6	3467.8	3449.6	3422.7	3415.5	3382.0	3340.6	3277.3	3190.0	3086.8
10°	3442.4	3446.0	3435.1	3426.4	3401.6	3393.6	3362.4	3320.9	3257.7	3164.6	3046.1
12.5°	3403.8	3407.5	3411.1	3419.1	3403.8	3400.9	3376.2	3341.3	3280.9	3184.2	3050.4
15°	3379.1	3386.4	3412.5	3443.8	3447.4	3444.5	3428.5	3395.8	3334.7	3234.4	3081.7
17.5°	3379.1	3390.7	3445.3	3504.9	3526.0	3528.2	3514.3	3468.5	3395.8	3288.2	3110.8
20°	3407.5	3423.5	3508.5	3592.9	3627.8	3627.8	3600.9	3536.9	3451.8	3336.9	3130.4
22.5°	3480.2	3501.3	3608.1	3705.6	3742.7	3734.7	3698.3	3605.2	3510.0	3392.2	3155.1
25°	3623.4	3639.4	3750.7	3848.8	3871.4	3853.2	3807.4	3688.1	3584.2	3467.1	3200.2
27.5°	3808.1	3810.3	3925.2	4008.1	3994.3	3981.9	3924.5	3792.1	3691.0	3574.0	3278.0
30°	4011.0	4011.0	4112.1	4175.3	4133.2	4123.0	4065.5	3917.9	3827.7	3719.4	3388.5
32.5°	4207.3	4216.1	4298.2	4338.2	4290.9	4280.8	4224.8	4077.2	4009.5	3941.2	3560.9
35°	4397.1	4403.7	4481.5	4503.3	4458.2	4461.1	4421.1	4296.0	4270.6	4261.9	3820.5
37.5°	4581.1	4582.5	4661.8	4675.6	4653.1	4677.8	4681.4	4570.9	4618.2	4688.7	4186.2
40°	4749.1	4750.5	4829.0	4864.7	4903.2	4935.2	4963.6	4904.7	5061.0	5224.6	4621.8
42.5°	4883.6	4898.9	4998.5	5066.1	5167.9	5229.0	5306.1	5303.1	5588.2	5834.0	5148.3
45°	5002.1	5028.3	5167.2	5285.7	5460.2	5557.7	5678.4	5772.9	6181.6	6512.4	5681.3
47.5°	5158.4	5183.2	5341.7	5535.8	5768.5	5896.5	6096.5	6300.8	6833.8	7178.5	6201.9
50°	5378.8	5367.9	5524.2	5802.7	6101.6	6269.5	6554.6	6860.7	7481.0	7758.8	6508.0
52.5°	5613.6	5609.3	5724.9	6092.8	6494.2	6690.6	7067.2	7439.5	8099.8	8158.7	6648.4
55°	5904.5	5873.2	5970.7	6423.7	6960.3	7171.2	7614.8	8012.5	8592.8	8384.1	6718.9
57.5°	6209.2	6157.6	6250.6	6792.4	7486.1	7735.5	8221.2	8571.0	8920.8	8538.3	6718.2
60°	6524.0	6463.0	6573.5	7253.4	8139.1	8427.7	8878.6	8948.4	9226.9	8616.1	6668.7
62.5°	6787.3	6750.9	6915.3	7746.4	8868.4	9152.0	9375.2	9291.6	9485.0	8676.4	6553.1
65°	7065.8	7068.0	7333.4	8321.6	9643.5	9834.8	9853.7	9736.6	9701.0	8664.1	6161.9
67.5°	7442.4	7477.3	7920.2	9102.5	10397.6	10545.2	10543.8	10218.7	9858.8	8172.5	5294.4
70°	7840.9	7923.1	8596.4	9996.2	11220.7	11370.5	11293.5	10525.6	9282.9	6608.4	3747.0
72.5°	7774.0	7916.5	8972.4	10559.8	11811.9	11926.1	11425.1	9771.5	7337.0	3840.8	1595.4
75°	5997.6	6162.6	8227.0	10001.3	11191.7	11089.1	9816.6	7603.9	4009.5	1071.8	359.2
77.5°	3168.2	3256.2	5434.8	7619.1	8726.6	8512.1	6915.3	4218.2	1222.3	265.4	161.4
80°	1659.4	1679.7	2368.3	4322.9	5386.0	5387.5	4098.3	1852.8	503.9	136.0	108.3
82.5°	888.6	906.0	1251.4	1997.5	2822.1	2558.1	1569.2	1019.5	293.0	77.1	104.0
85°	213.8	217.4	709.7	912.6	1109.6	792.6	466.1	855.9	79.3	45.1	84.4
87.5°	82.2	83.6	263.2	394.8	282.9	183.2	218.1	319.2	10.2	17.5	13.1
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°	3219.8	3219.8	3219.8	3219.8	3219.8	3219.8	3219.8	3219.8	3219.8	3219.8	3219.8
2.5°	3187.9	3168.9	3122.4	3063.5	3011.2	2973.3	2916.6	2879.5	2854.8	2854.1	2844.6
5°	3107.1	3068.6	2968.3	2849.0	2740.7	2643.2	2528.3	2437.4	2369.8	2358.9	2335.6
7.5°	3020.6	2957.3	2803.2	2617.0	2435.2	2250.5	2036.0	1903.0	1788.8	1734.3	1728.5
10°	2967.5	2878.8	2659.9	2390.9	2105.8	1805.5	1524.8	1330.7	1190.4	1150.4	1120.5
12.5°	2956.6	2839.5	2549.4	2178.6	1771.4	1374.3	1063.8	857.3	745.3	709.7	700.3
15°	2967.5	2821.4	2456.3	1968.4	1432.5	975.1	714.1	594.1	551.9	541.7	541.0
17.5°	2974.1	2799.6	2350.9	1735.0	1103.8	696.6	546.8	511.9	505.4	504.6	506.1
20°	2973.3	2766.1	2225.1	1474.7	821.0	547.5	494.5	487.2	485.7	486.5	485.7
22.5°	2968.3	2726.8	2086.9	1206.4	620.3	489.4	471.9	467.6	466.8	466.8	466.8
25°	2977.7	2695.6	1935.0	949.7	511.2	462.5	451.6	447.9	447.2	447.2	445.7
27.5°	3011.9	2678.1	1768.4	730.8	461.7	438.5	429.7	429.0	426.8	426.1	427.6
30°	3067.1	2678.1	1585.9	568.6	431.9	413.8	407.2	405.8	405.0	404.3	405.0
32.5°	3164.6	2698.5	1386.7	472.7	403.6	386.1	381.8	383.9	381.8	381.8	381.8
35°	3340.6	2759.6	1178.0	412.3	373.8	359.2	354.9	357.8	356.3	356.3	355.6
37.5°	3597.2	2873.0	967.8	375.9	347.6	332.3	326.5	330.9	329.4	329.4	328.7
40°	3909.9	3038.1	767.9	348.3	322.1	306.1	301.0	303.2	299.6	299.6	301.0
42.5°	4296.0	3247.5	593.4	321.4	296.7	281.4	278.5	276.3	269.8	266.1	266.9
45°	4725.1	3465.6	462.5	295.2	272.7	260.3	256.0	250.1	239.2	232.0	232.7
47.5°	5108.3	3633.6	375.9	269.8	250.9	241.4	234.9	224.0	208.0	199.2	200.0
50°	5309.7	3659.0	319.9	244.3	230.5	221.1	211.6	194.9	176.0	166.5	165.8
52.5°	5361.3	3539.8	278.5	221.1	210.1	199.2	186.9	164.3	143.2	133.1	131.6
55°	5380.2	3358.0	241.4	199.2	188.3	176.0	160.0	134.5	114.9	104.7	104.0
57.5°	5317.7	3086.8	212.3	179.6	166.5	151.2	131.6	107.6	88.7	80.7	80.7
60°	5178.8	2719.6	189.8	158.5	144.0	126.5	106.2	83.6	66.2	59.6	59.6
62.5°	4901.8	2244.0	168.7	136.7	122.9	104.7	85.8	63.3	46.5	42.9	43.6
65°	4378.9	1702.3	147.6	117.1	104.7	86.5	66.9	45.1	31.3	31.3	32.7
67.5°	3571.1	1182.4	125.8	99.6	90.2	70.5	50.9	31.3	21.8	24.7	27.6
70°	2364.0	663.2	107.6	82.2	77.1	56.0	37.8	21.1	17.5	23.3	28.4
72.5°	892.2	258.1	90.2	66.2	66.9	42.9	26.9	16.0	16.0	25.5	33.4
75°	248.7	126.5	64.7	48.7	52.4	31.3	19.6	13.8	15.3	29.1	39.3
77.5°	146.2	93.1	42.2	28.4	35.6	21.8	13.1	10.9	13.1	24.7	37.8
80°	117.8	49.4	24.7	14.5	19.6	12.4	8.7	6.5	3.6	9.5	19.6
82.5°	117.8	29.8	11.6	10.2	10.2	6.5	4.4	2.9	0.7	0.0	5.1
85°	79.3	12.4	7.3	6.5	5.1	2.2	1.5	0.7	0.0	0.0	0.0
87.5°	13.1	5.1	2.9	1.5	0.7	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)