

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: P321577

Luminaire Tested: **GAN-SA3D-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16592 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
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

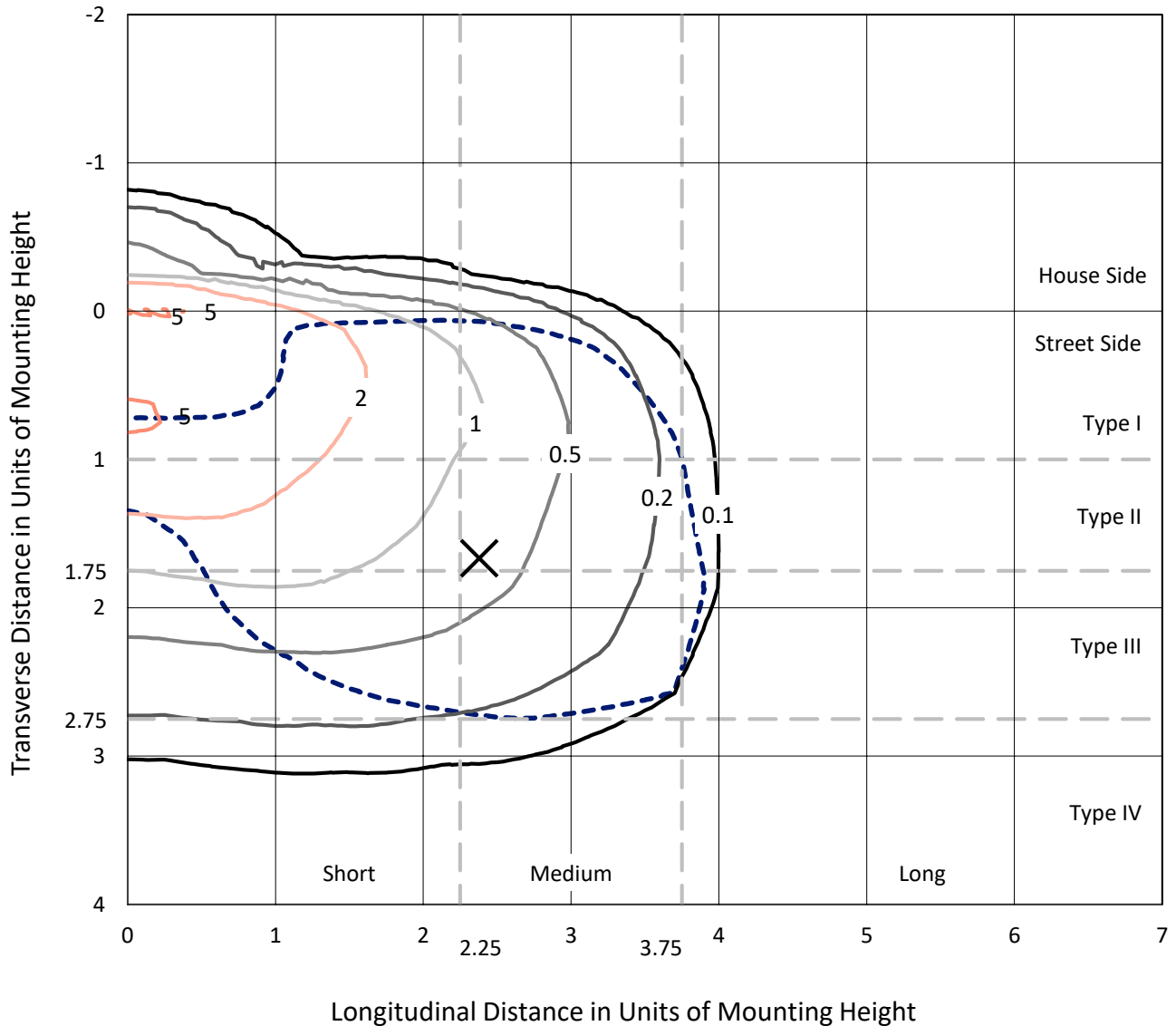




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Iso-Footcandle Lines of Horizontal Illumination

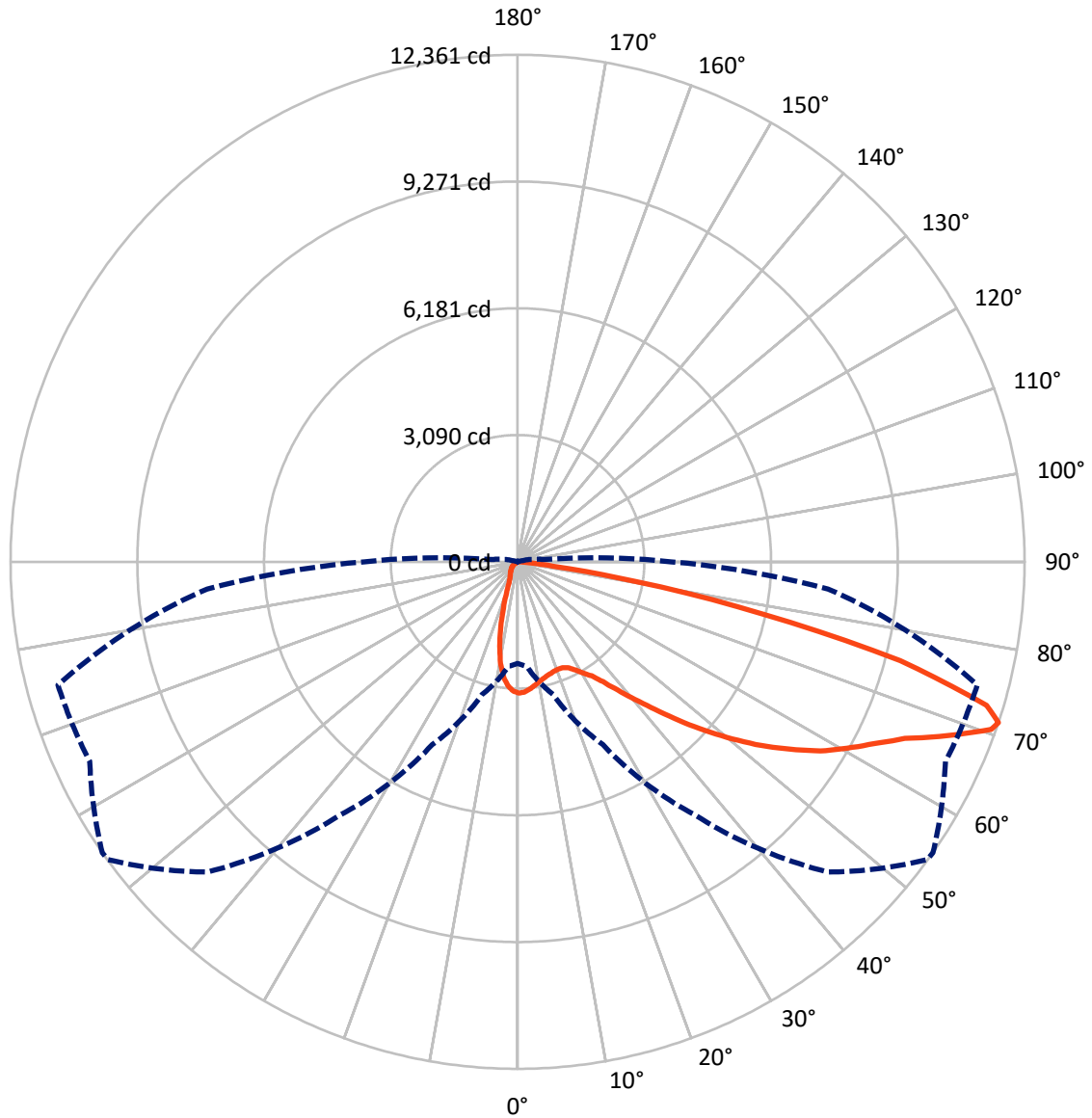
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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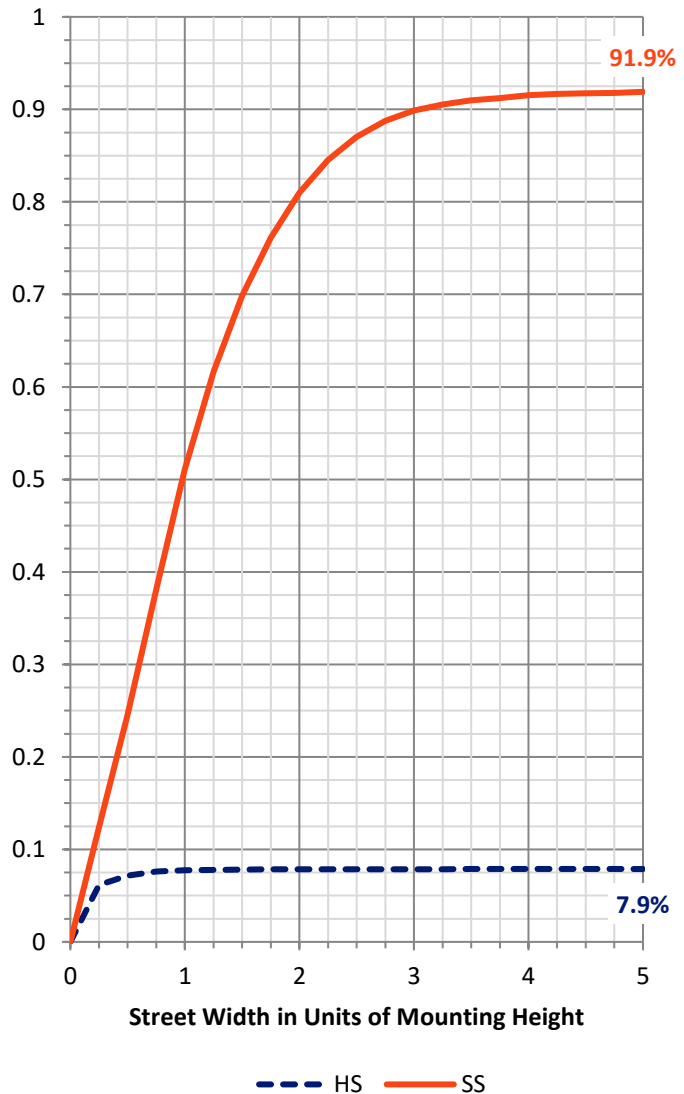
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1313.6	0.0	1313.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	15278.4	0.0	15278.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	16592.0	0.0	16592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.8	1.6
10°-20°	615.9	3.7
20°-30°	989.8	6.0
30°-40°	1681.7	10.1
40°-50°	2610.3	15.7
50°-60°	3509.5	21.2
60°-70°	4293.2	25.9
70°-80°	2510.2	15.1
80°-90°	108.5	0.7
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°	16592.0	100.0
0°-180°	16592.0	100.0

Coefficient of Utilization

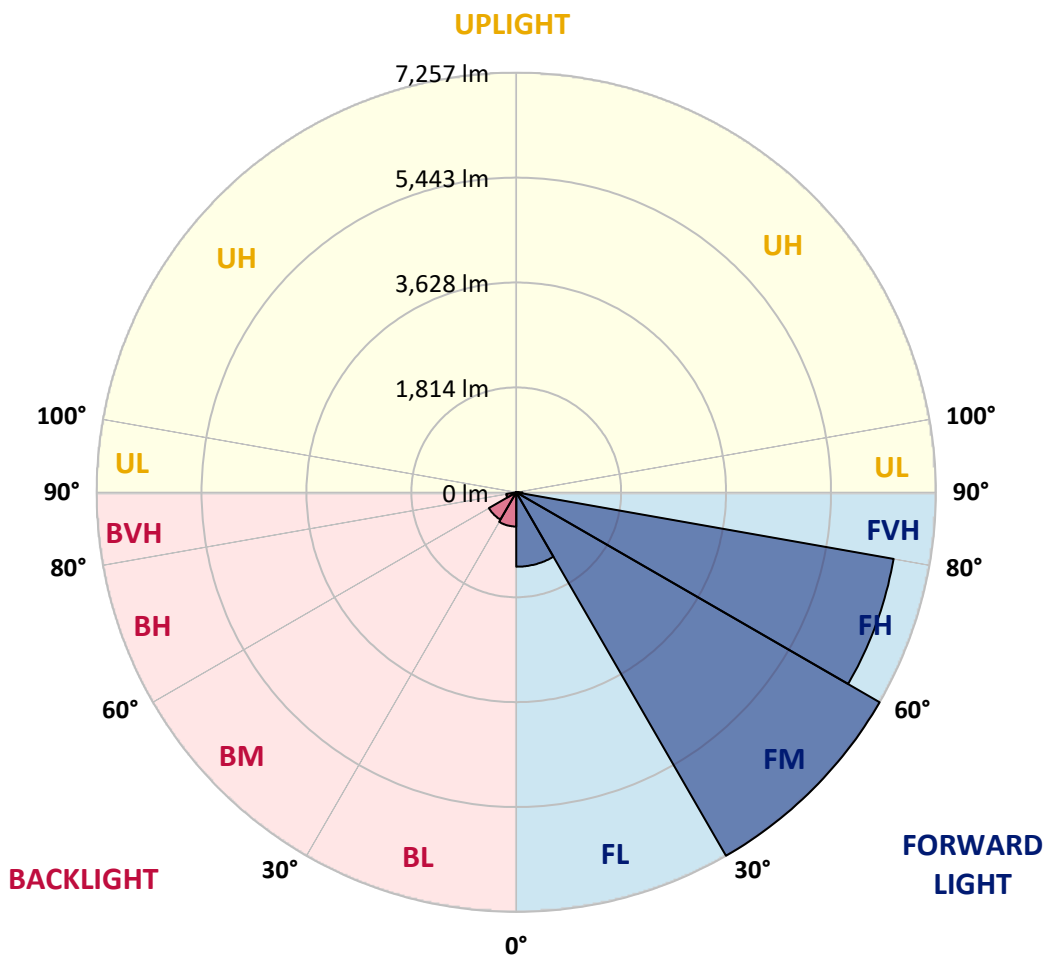


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1287.3	7.8			
FM (30°-60°)	7256.9	43.7			
FH (60°-80°)	6627.4	39.9			G3/7500
FVH (80°-90°)	106.8	0.6			G2/225
BL (0°-30°)	591.3	3.6	B2/1000		
BM (30°-60°)	544.6	3.3	B1/1000		
BH (60°-80°)	176.0	1.1	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3199.8	3199.8	3199.8	3199.8	3199.8	3199.8	3199.8	3199.8	3199.8	3199.8	3199.8
2.5°	3106.0	3109.7	3123.1	3129.1	3143.2	3167.0	3179.0	3179.7	3199.1	3206.5	3212.5
5°	2886.2	2908.5	2930.9	2954.7	2997.9	3055.3	3111.9	3117.1	3179.7	3225.9	3250.5
7.5°	2696.9	2717.1	2743.9	2781.9	2843.0	2933.1	3027.7	3038.9	3157.4	3262.4	3317.5
10°	2502.5	2518.9	2557.6	2613.5	2697.7	2818.4	2945.8	2964.4	3137.2	3311.6	3408.4
12.5°	2294.6	2304.3	2351.3	2431.7	2555.4	2708.9	2876.5	2901.1	3124.6	3368.2	3515.7
15°	2136.7	2141.2	2185.9	2269.3	2410.9	2610.5	2822.9	2852.7	3127.6	3436.0	3632.7
17.5°	2096.5	2098.7	2122.5	2179.9	2305.1	2522.6	2780.4	2816.9	3136.5	3502.3	3750.4
20°	2259.6	2244.0	2219.4	2210.5	2264.1	2469.7	2755.1	2796.0	3148.4	3561.2	3856.2
22.5°	2707.4	2661.2	2559.1	2422.8	2340.1	2473.4	2761.8	2802.7	3186.4	3633.4	3978.4
25°	3371.9	3307.9	3134.3	2866.1	2608.3	2580.7	2817.6	2859.4	3260.2	3719.8	4095.3
27.5°	4128.1	4064.8	3852.5	3469.5	3030.0	2793.1	2945.8	2984.5	3369.7	3796.6	4184.7
30°	4852.3	4834.4	4584.1	4149.0	3560.4	3137.2	3111.2	3144.0	3450.9	3842.8	4255.5
32.5°	5466.2	5437.8	5236.7	4813.5	4167.6	3550.7	3305.6	3315.3	3512.0	3902.4	4347.9
35°	6035.3	6000.3	5823.8	5423.7	4790.4	4055.8	3605.1	3591.0	3645.3	4022.3	4482.0
37.5°	6532.3	6564.3	6368.4	5987.7	5349.2	4581.1	4008.9	3966.4	3853.9	4217.5	4676.4
40°	6948.0	6948.0	6845.9	6528.5	5952.6	5124.2	4465.6	4409.7	4167.6	4518.5	4923.0
42.5°	7097.7	7129.8	7167.8	6988.2	6492.8	5688.9	4974.4	4916.3	4609.4	4945.4	5234.5
45°	7106.7	7157.3	7351.8	7351.0	6980.8	6249.9	5548.1	5520.5	5175.6	5493.7	5620.4
47.5°	6980.8	7044.1	7364.4	7546.2	7367.4	6772.2	6175.4	6141.1	5840.9	6165.7	6024.2
50°	6786.3	6856.3	7228.9	7623.0	7630.4	7226.6	6836.2	6784.8	6573.2	6933.8	6441.4
52.5°	6438.4	6574.0	7107.4	7640.8	7803.3	7619.2	7465.0	7442.7	7392.8	7673.6	6773.6
55°	5694.1	5844.6	6802.7	7646.8	7963.4	7967.2	8054.3	8060.3	8160.9	8365.0	7021.0
57.5°	5342.5	5427.4	6270.8	7675.1	8201.1	8362.0	8654.8	8701.0	8856.7	9021.4	7303.4
60°	5121.2	5221.8	6008.5	7636.4	8574.3	8879.8	9211.3	9227.0	9393.9	9698.6	7685.5
62.5°	4944.6	5043.7	5843.1	7487.4	8993.8	9502.6	9755.2	9756.7	9881.8	10505.4	8119.9
65°	4508.8	4592.3	5508.6	7319.7	9270.9	10118.8	10387.0	10377.3	10479.3	11356.2	8624.3
67.5°	3878.5	3942.6	4825.4	6684.2	9166.6	10679.0	11340.6	11308.5	11184.9	12091.5	8822.4
70°	2998.7	3021.8	3803.3	5570.5	8189.2	10894.3	12262.2	12245.8	11617.7	11959.7	8096.0
71°	2478.7	2554.6	3351.8	4916.3	7534.3	10695.4	12351.6	12361.2	11508.9	11600.6	7596.1
72.5°	1439.4	1504.2	2429.5	3775.7	6396.7	9865.4	11888.2	11958.2	11000.8	10551.6	6488.3
75°	308.4	330.0	900.7	1827.5	3518.7	6914.5	9383.4	9633.0	8966.2	7178.2	3910.6
77.5°	214.6	231.7	385.9	829.2	1163.0	3416.6	5829.0	6110.6	5356.6	2697.7	1251.6
80°	169.9	189.2	301.0	409.8	314.4	1101.9	2730.5	2902.6	1786.5	602.0	210.8
82.5°	94.6	112.5	234.7	221.3	120.7	209.3	764.4	864.2	357.6	121.4	49.9
85°	27.6	33.5	151.2	160.9	51.4	40.2	130.4	161.7	67.8	32.0	22.4
87.5°	0.0	0.0	73.0	61.8	14.9	6.0	11.9	13.4	13.4	13.4	14.9
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°	3199.8	3199.8	3199.8	3199.8	3199.8	3199.8	3199.8	3199.8	3199.8	3199.8	3199.8
2.5°	3212.5	3217.7	3199.1	3174.5	3148.4	3116.4	3082.9	3056.8	3056.0	3043.4	3030.7
5°	3252.0	3249.0	3197.6	3119.4	3027.0	2930.9	2839.2	2735.7	2701.4	2658.9	2644.8
7.5°	3325.0	3304.1	3195.4	3024.0	2821.4	2620.2	2412.3	2203.0	2113.6	2033.1	2019.0
10°	3416.6	3377.1	3181.2	2881.0	2509.2	2138.2	1824.5	1539.9	1414.8	1318.7	1314.2
12.5°	3512.0	3451.6	3141.7	2664.9	2100.2	1578.7	1217.3	937.2	832.9	765.9	771.8
15°	3611.8	3521.7	3056.8	2373.6	1634.6	1071.3	748.0	583.3	541.6	524.5	529.0
17.5°	3713.9	3570.1	2938.3	2022.7	1174.9	691.4	517.8	471.6	471.6	475.3	476.8
20°	3802.5	3596.2	2764.0	1629.3	796.4	503.6	453.0	446.3	450.0	455.9	456.7
22.5°	3890.5	3597.7	2536.8	1230.8	557.3	441.0	431.4	428.4	430.6	437.3	438.1
25°	3962.0	3579.8	2252.2	875.4	444.8	415.7	411.2	409.8	411.2	419.4	419.4
27.5°	3991.0	3515.0	1905.0	615.4	398.6	387.4	385.9	387.4	389.6	395.6	396.3
30°	3994.0	3401.7	1526.5	445.5	361.3	349.4	352.4	357.6	355.4	353.9	355.4
32.5°	4001.5	3270.6	1157.7	366.5	330.0	311.4	307.7	307.7	298.7	293.5	290.6
35°	4026.0	3116.4	839.6	329.3	298.0	276.4	262.2	245.9	228.7	219.8	217.5
37.5°	4064.8	2954.7	601.2	304.7	269.7	245.1	218.3	189.2	164.6	157.9	157.9
40°	4135.6	2787.8	444.8	285.3	247.3	216.8	176.6	138.6	116.2	112.5	112.5
42.5°	4247.3	2612.0	354.6	268.2	228.0	187.7	134.8	100.6	84.2	82.0	81.2
45°	4363.5	2418.3	309.9	251.8	207.1	154.2	99.8	74.5	64.8	62.6	62.6
47.5°	4479.8	2211.9	288.3	236.2	187.0	119.9	74.5	58.9	54.4	54.4	55.1
50°	4578.1	1996.6	272.7	219.0	160.9	90.9	58.9	49.9	48.4	51.4	52.2
52.5°	4602.7	1785.0	253.3	197.4	128.9	69.3	48.4	44.0	44.0	44.0	44.0
55°	4587.8	1621.1	228.0	170.6	95.4	55.1	41.7	38.7	38.0	38.0	38.0
57.5°	4638.4	1524.3	182.5	132.6	68.5	44.7	36.5	34.3	32.8	32.0	32.0
60°	4740.5	1461.0	130.4	95.4	51.4	37.3	31.3	29.1	26.8	25.3	25.3
62.5°	4876.1	1405.8	96.9	70.8	39.5	29.8	26.1	23.8	20.9	19.4	19.4
65°	4980.4	1307.5	73.8	52.9	29.8	23.8	20.1	19.4	14.9	13.4	12.7
67.5°	4821.0	1091.4	59.6	38.7	22.4	18.6	15.6	14.9	8.9	7.5	7.5
70°	4134.8	759.9	47.7	28.3	16.4	14.9	12.7	9.7	6.7	6.0	6.0
71°	3749.6	634.8	43.2	23.8	14.2	14.2	11.9	8.2	6.0	5.2	5.2
72.5°	3114.9	450.7	36.5	18.6	12.7	14.9	12.7	7.5	6.0	5.2	4.5
75°	1808.1	188.5	25.3	12.7	9.7	17.9	16.4	6.7	4.5	3.7	3.7
77.5°	543.9	69.3	14.2	8.2	7.5	15.6	18.6	6.0	2.2	0.7	0.7
80°	99.1	29.8	8.9	5.2	5.2	9.7	14.2	3.0	0.0	0.0	0.0
82.5°	35.0	14.9	5.2	3.0	2.2	4.5	6.7	0.0	0.0	0.0	0.0
85°	20.1	10.4	3.0	1.5	0.0	0.7	1.5	0.0	0.0	0.0	0.0
87.5°	13.4	3.0	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)