

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: P322831

Luminaire Tested: **GAN-SA7A-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322831
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-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 21758 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

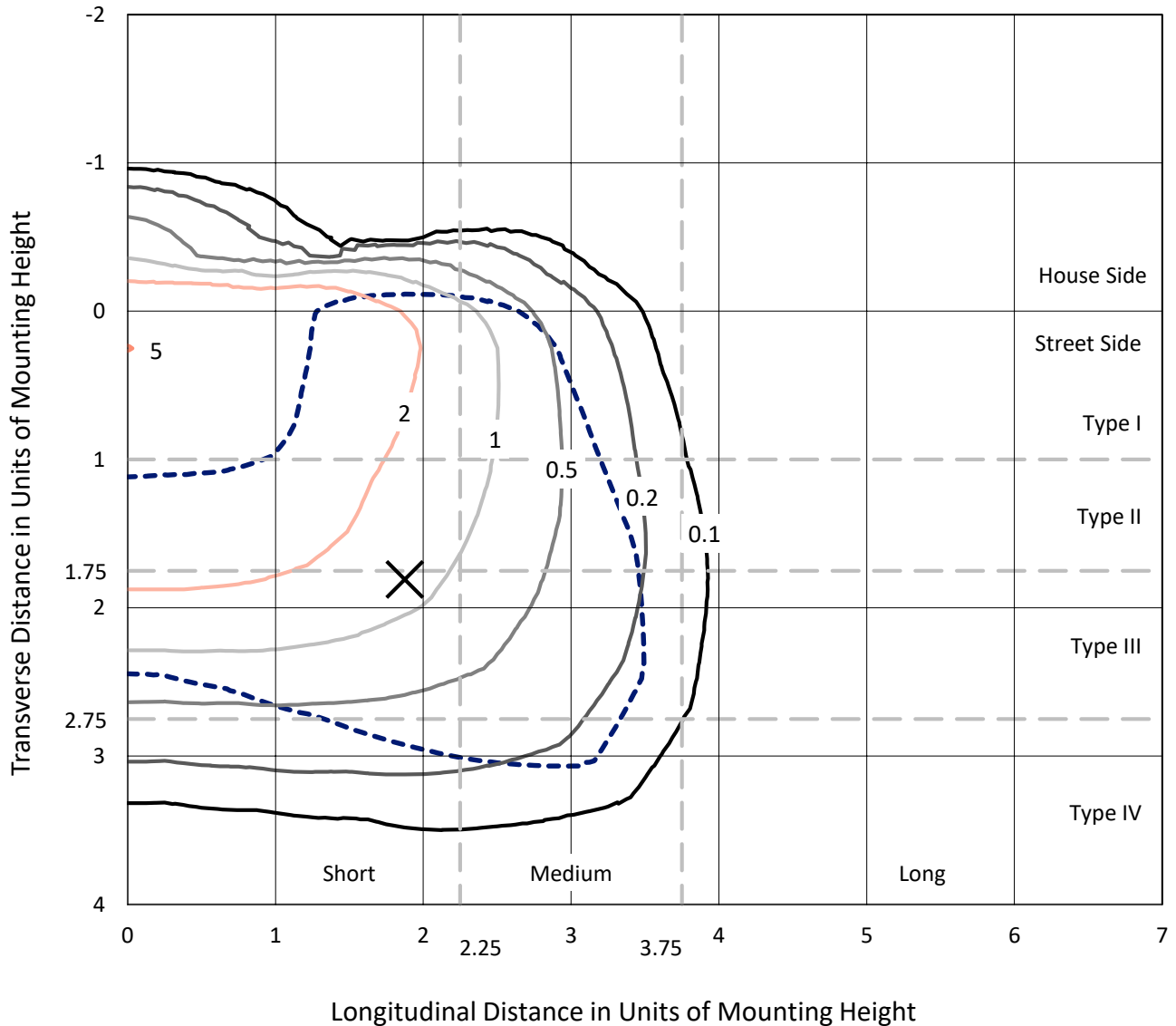
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

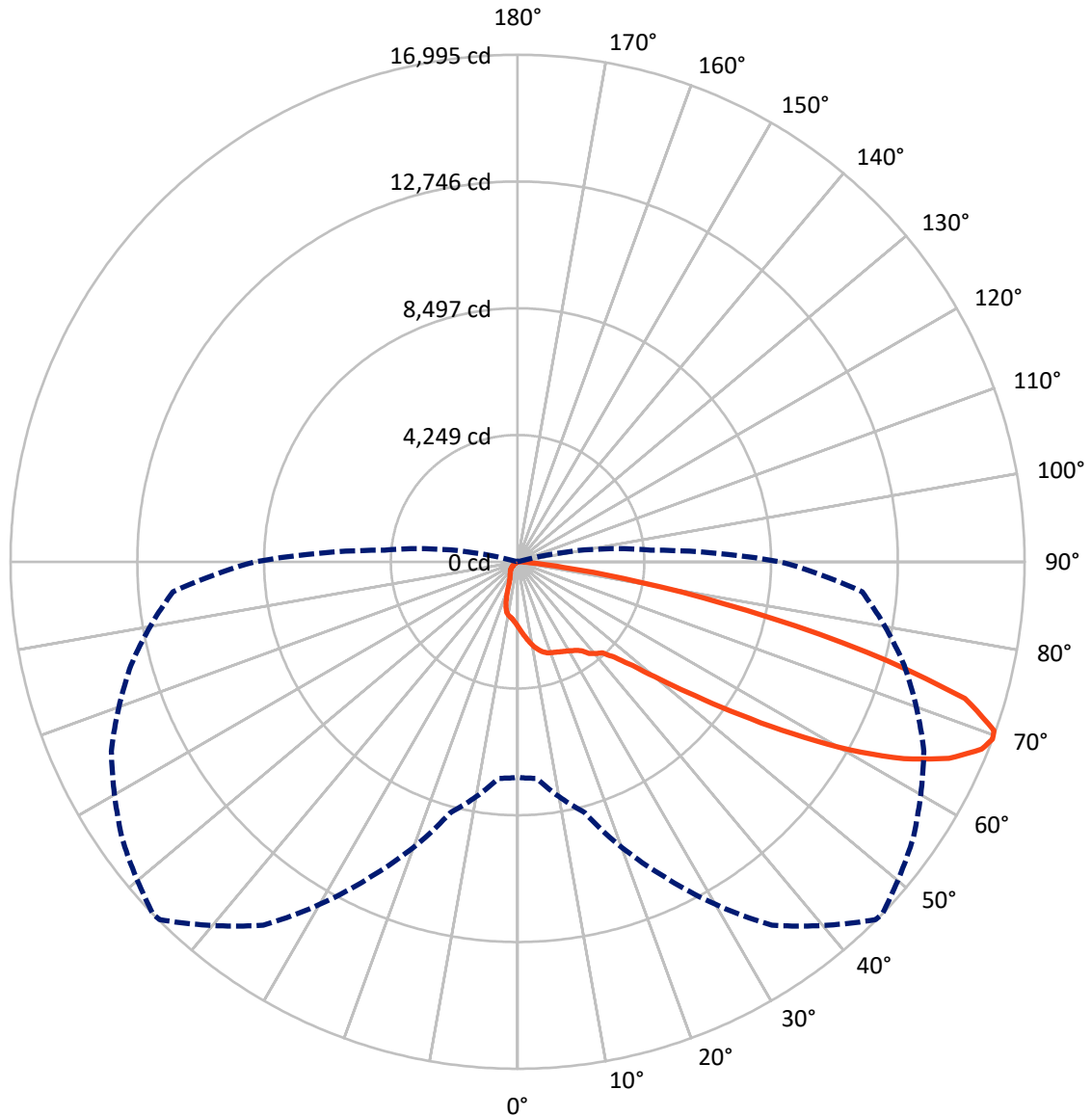
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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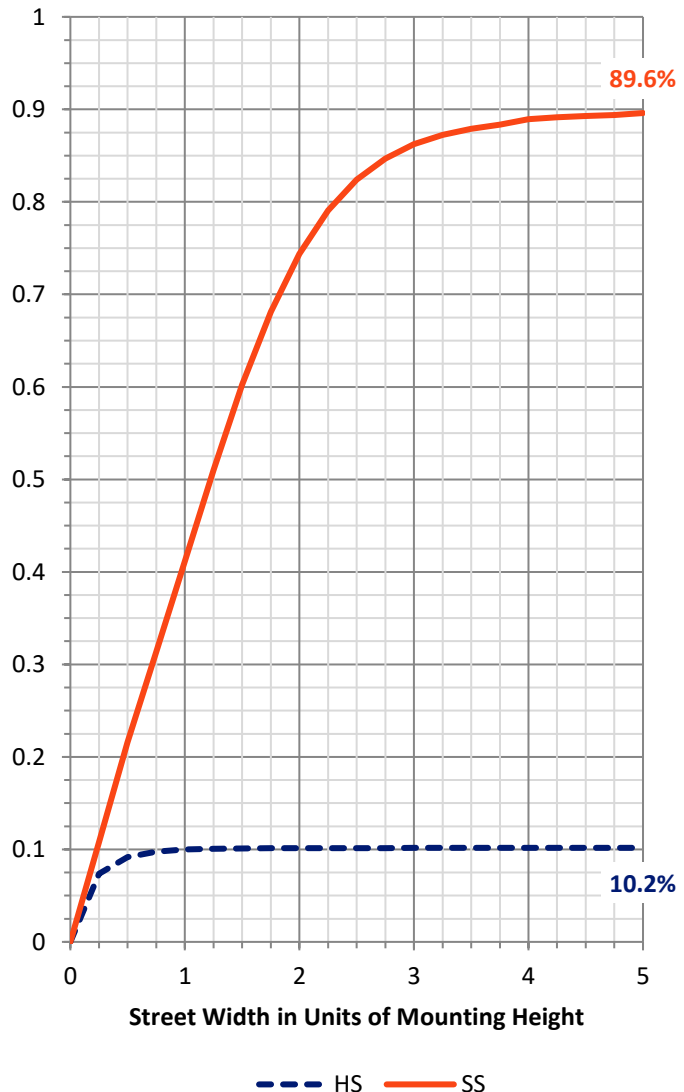
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2233.0	0.0	2233.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	19525.0	0.0	19525.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	21758.0	0.0	21758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.0	1.0
10°-20°	658.3	3.0
20°-30°	1035.3	4.8
30°-40°	1484.6	6.8
40°-50°	2566.0	11.8
50°-60°	5069.3	23.3
60°-70°	7084.8	32.6
70°-80°	3422.7	15.7
80°-90°	220.0	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°	21758.0	100.0
0°-180°	21758.0	100.0

Coefficient of Utilization



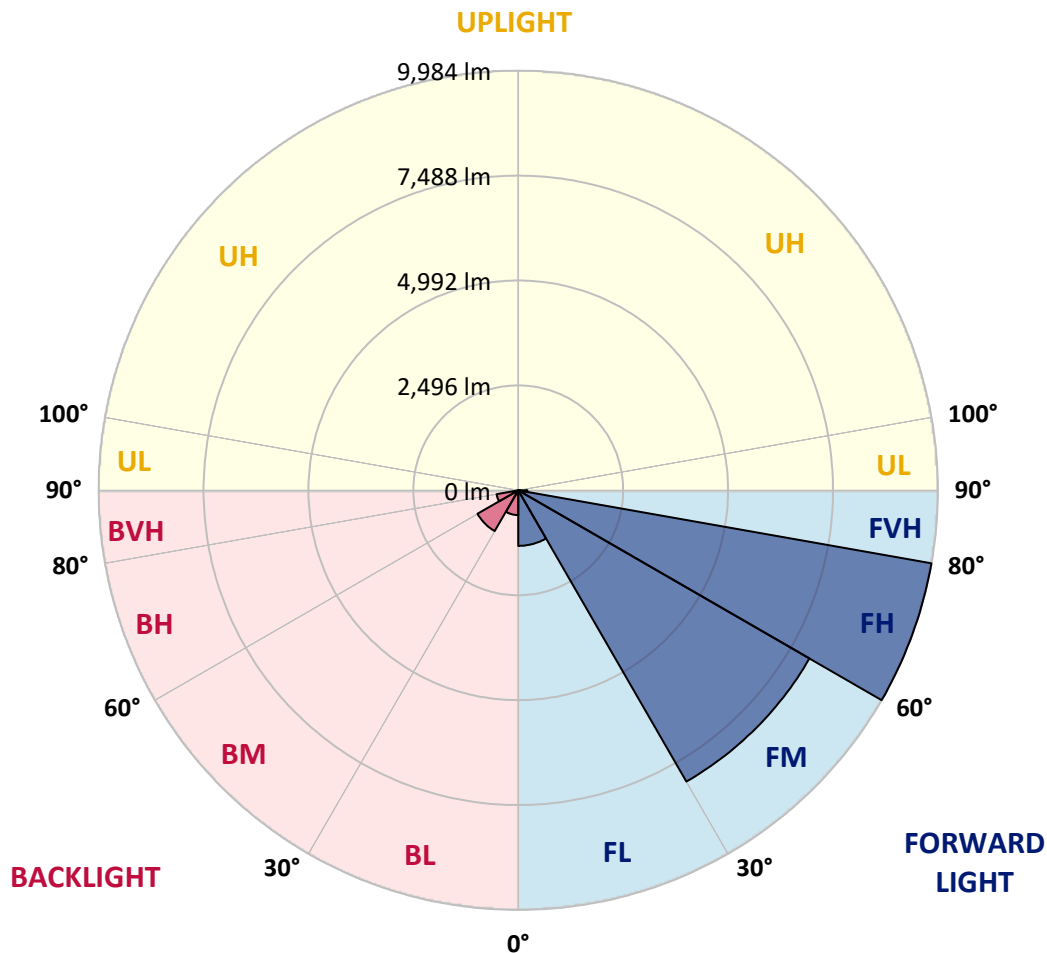
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1322.1	6.1			
FM (30°-60°)	8000.9	36.8			
FH (60°-80°)	9983.9	45.9			G4/12000
FVH (80°-90°)	218.1	1.0			G2/225
BL (0°-30°)	588.5	2.7	B2/1000		
BM (30°-60°)	1119.0	5.1	B2/2500		
BH (60°-80°)	523.6	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°	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1
2.5°	2421.8	2418.8	2404.5	2398.4	2363.7	2343.3	2335.1	2309.6	2272.9	2236.2	2195.4
5°	2697.3	2696.3	2669.7	2644.2	2579.0	2517.7	2506.5	2447.4	2364.7	2287.2	2209.7
7.5°	2978.9	2965.6	2939.1	2890.1	2795.2	2697.3	2688.1	2604.5	2487.1	2374.9	2263.7
10°	3217.6	3209.4	3174.7	3100.2	2989.1	2877.9	2866.6	2763.6	2631.0	2493.3	2351.5
12.5°	3403.2	3397.1	3351.2	3258.4	3140.0	3024.8	3009.5	2917.6	2775.8	2621.8	2454.5
15°	3516.5	3513.4	3457.3	3358.3	3242.1	3142.1	3128.8	3048.2	2916.6	2755.4	2566.7
17.5°	3543.0	3544.0	3485.9	3385.9	3290.0	3218.6	3208.4	3147.2	3037.0	2876.8	2678.9
20°	3483.8	3496.1	3444.0	3357.3	3298.2	3260.4	3252.3	3215.5	3122.7	2971.7	2768.7
22.5°	3400.2	3406.3	3370.6	3312.4	3288.0	3295.1	3291.0	3270.6	3192.1	3053.3	2857.5
25°	3349.2	3349.2	3327.7	3278.8	3295.1	3339.0	3340.0	3335.9	3273.7	3153.3	2965.6
27.5°	3347.1	3341.0	3316.5	3279.8	3324.7	3392.0	3396.1	3423.6	3384.9	3274.7	3100.2
30°	3428.7	3421.6	3369.6	3321.6	3378.8	3451.2	3461.4	3521.6	3502.2	3406.3	3250.2
32.5°	3619.5	3594.0	3478.7	3400.2	3443.0	3529.7	3543.0	3638.9	3669.5	3568.5	3395.1
35°	3880.7	3800.1	3633.8	3549.1	3553.2	3644.0	3656.2	3797.0	3887.8	3717.4	3507.3
37.5°	4240.8	4201.0	3930.7	3704.2	3722.5	3860.3	3896.0	4049.0	4023.5	3799.1	3634.8
40°	5030.4	4968.2	4680.5	4138.8	3884.7	4035.7	4047.0	4128.6	4130.6	3983.7	3900.1
42.5°	6105.6	6080.1	5777.1	4927.3	4204.1	4153.0	4173.5	4311.2	4465.2	4373.4	4369.3
45°	7296.1	7282.9	6961.5	5974.0	4849.8	4537.6	4563.2	4747.8	5042.6	5063.0	5192.6
47.5°	8254.1	8247.9	8063.3	7142.1	5838.3	5189.5	5197.7	5393.6	5911.8	6167.9	6374.9
50°	9127.3	9156.9	9011.0	8406.1	7184.9	6210.7	6191.3	6321.9	7154.3	7573.6	7830.7
52.5°	10341.3	10383.1	9974.1	9585.4	8597.9	7477.7	7462.4	7599.1	8647.9	8962.1	9008.0
55°	11413.5	11342.1	11018.7	10906.5	10320.9	9042.6	9038.6	9158.9	10092.4	10226.0	10310.7
57.5°	11886.8	11859.3	12015.4	12272.5	12125.6	10892.2	10883.0	10791.2	11384.9	11399.2	11659.3
60°	12185.7	12219.4	12697.9	13490.5	13856.8	12882.5	12823.3	12263.3	12619.3	12587.7	12866.2
62.5°	11961.3	12027.6	12888.6	14209.7	15152.4	14619.8	14536.2	13611.9	13674.2	13565.0	13824.1
65°	10769.8	10872.8	12283.7	14074.1	15795.1	15977.7	15893.0	14802.4	14511.7	14332.2	14188.3
67.5°	8744.8	8806.0	10279.1	12893.7	15505.3	16787.7	16770.3	15846.1	15144.2	14202.6	13086.5
69°	7226.8	7287.0	8705.0	11651.2	14867.7	16961.1	16994.8	16180.7	15023.8	13415.0	11595.1
70°	6120.9	6185.2	7506.3	10586.1	14128.1	16880.5	16940.7	16149.0	14679.0	12503.0	10286.2
72.5°	3210.4	3265.5	4621.3	7293.1	11517.5	15500.2	15682.8	14784.1	12442.8	9080.4	6082.2
75°	1008.9	1040.6	1804.7	3812.3	7885.8	12052.1	12093.9	11597.1	8835.6	4994.7	2533.0
77.5°	384.6	375.4	600.9	1404.8	3986.8	7588.9	7845.0	7247.2	4636.6	1765.9	584.5
80°	207.1	208.1	312.2	581.5	1705.7	3900.1	4116.3	3512.4	1647.5	550.9	134.7
82.5°	89.8	93.9	175.5	308.1	783.5	1438.4	1546.6	1287.4	629.4	370.3	50.0
85°	19.4	21.4	84.7	167.3	319.3	404.0	423.4	417.2	400.9	287.7	19.4
87.5°	0.0	0.0	37.7	60.2	80.6	91.8	80.6	105.1	221.4	193.8	10.2
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°	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1
2.5°	2182.1	2163.7	2132.1	2097.4	2073.0	2047.5	2027.0	2017.9	2007.7	2000.5	2009.7
5°	2178.0	2142.3	2081.1	2021.9	1979.1	1944.4	1915.9	1904.6	1893.4	1885.2	1884.2
7.5°	2213.7	2163.7	2069.9	1983.2	1916.9	1869.9	1831.2	1814.9	1801.6	1795.5	1790.4
10°	2282.1	2217.8	2092.3	1979.1	1893.4	1813.8	1730.2	1665.9	1624.1	1604.7	1597.6
12.5°	2370.8	2290.2	2135.2	2000.5	1876.1	1723.0	1545.5	1392.5	1293.6	1260.9	1241.5
15°	2474.9	2374.9	2191.3	2028.1	1812.8	1533.3	1232.3	1032.4	940.6	922.2	901.8
17.5°	2574.9	2464.7	2258.6	2033.2	1674.1	1225.2	902.8	767.2	731.5	743.7	746.8
20°	2662.6	2553.4	2324.9	1988.3	1422.1	919.2	698.8	665.1	678.4	701.9	705.9
22.5°	2751.4	2639.1	2386.1	1869.9	1099.7	697.8	629.4	637.6	650.9	674.3	678.4
25°	2859.5	2743.2	2443.3	1652.7	825.3	593.7	597.8	610.1	623.3	644.7	646.8
27.5°	2984.0	2874.8	2481.0	1370.1	612.1	545.8	559.0	577.4	590.7	611.1	615.2
30°	3149.2	3048.2	2493.3	1077.3	513.1	502.9	509.1	531.5	550.9	569.2	572.3
32.5°	3304.3	3219.6	2452.5	813.1	475.4	463.2	463.2	476.4	498.9	516.2	520.3
35°	3447.1	3392.0	2321.9	594.8	446.8	426.4	416.2	416.2	430.5	444.8	448.9
37.5°	3635.8	3633.8	2110.7	474.4	419.3	395.8	374.4	358.1	353.0	356.0	358.1
40°	3959.2	3962.3	1835.3	425.4	395.8	364.2	331.6	302.0	274.4	265.2	264.2
42.5°	4464.2	4418.3	1546.6	401.9	375.4	331.6	282.6	242.8	200.0	186.7	185.7
45°	5266.0	4993.7	1240.5	380.5	354.0	294.8	233.6	179.5	144.9	134.7	134.7
47.5°	6434.1	5749.6	961.0	357.1	325.4	253.0	176.5	129.6	106.1	101.0	102.0
50°	7642.0	6490.2	736.6	327.5	290.7	209.1	130.6	93.9	80.6	80.6	81.6
52.5°	8713.1	7032.9	574.3	295.8	247.9	164.2	99.0	73.5	67.3	66.3	67.3
55°	9716.0	7382.9	439.7	259.1	196.9	122.4	75.5	60.2	56.1	54.1	53.0
57.5°	10683.1	7556.3	329.5	209.1	142.8	88.8	60.2	51.0	46.9	43.9	42.8
60°	11326.8	7415.5	226.5	154.0	99.0	64.3	50.0	43.9	38.8	35.7	34.7
62.5°	11690.0	7030.9	145.9	111.2	70.4	47.9	39.8	36.7	29.6	26.5	26.5
65°	11543.0	6396.4	102.0	79.6	51.0	35.7	29.6	29.6	21.4	17.3	16.3
67.5°	10229.1	5403.8	77.5	59.2	36.7	26.5	22.4	25.5	13.3	8.2	8.2
69°	8800.9	4478.5	66.3	49.0	30.6	21.4	19.4	23.5	9.2	6.1	5.1
70°	7649.1	3863.3	60.2	42.8	25.5	18.4	17.3	22.4	9.2	5.1	4.1
72.5°	4576.4	2154.6	45.9	30.6	16.3	14.3	14.3	25.5	9.2	5.1	4.1
75°	1849.5	759.0	33.7	21.4	12.2	12.2	17.3	32.6	8.2	4.1	3.1
77.5°	419.3	166.3	19.4	13.3	8.2	12.2	20.4	25.5	5.1	2.0	0.0
80°	102.0	40.8	12.2	8.2	5.1	9.2	15.3	14.3	1.0	0.0	0.0
82.5°	33.7	14.3	5.1	4.1	1.0	3.1	7.1	4.1	0.0	0.0	0.0
85°	14.3	8.2	2.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
87.5°	9.2	3.1	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)