

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: P383711

Luminaire Tested: **GAN-SA9D-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64631.7 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

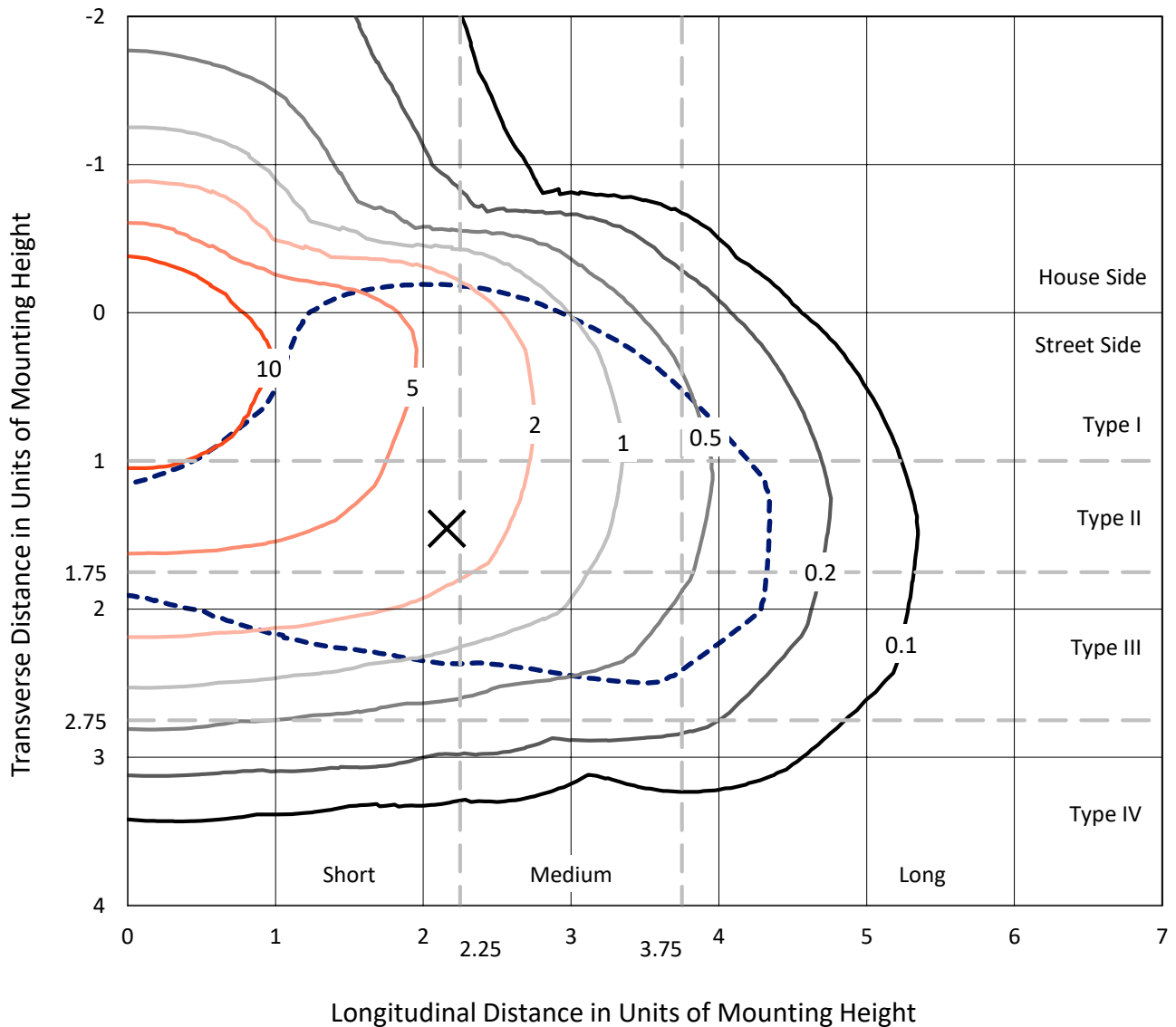
Input Watts (W): 575
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

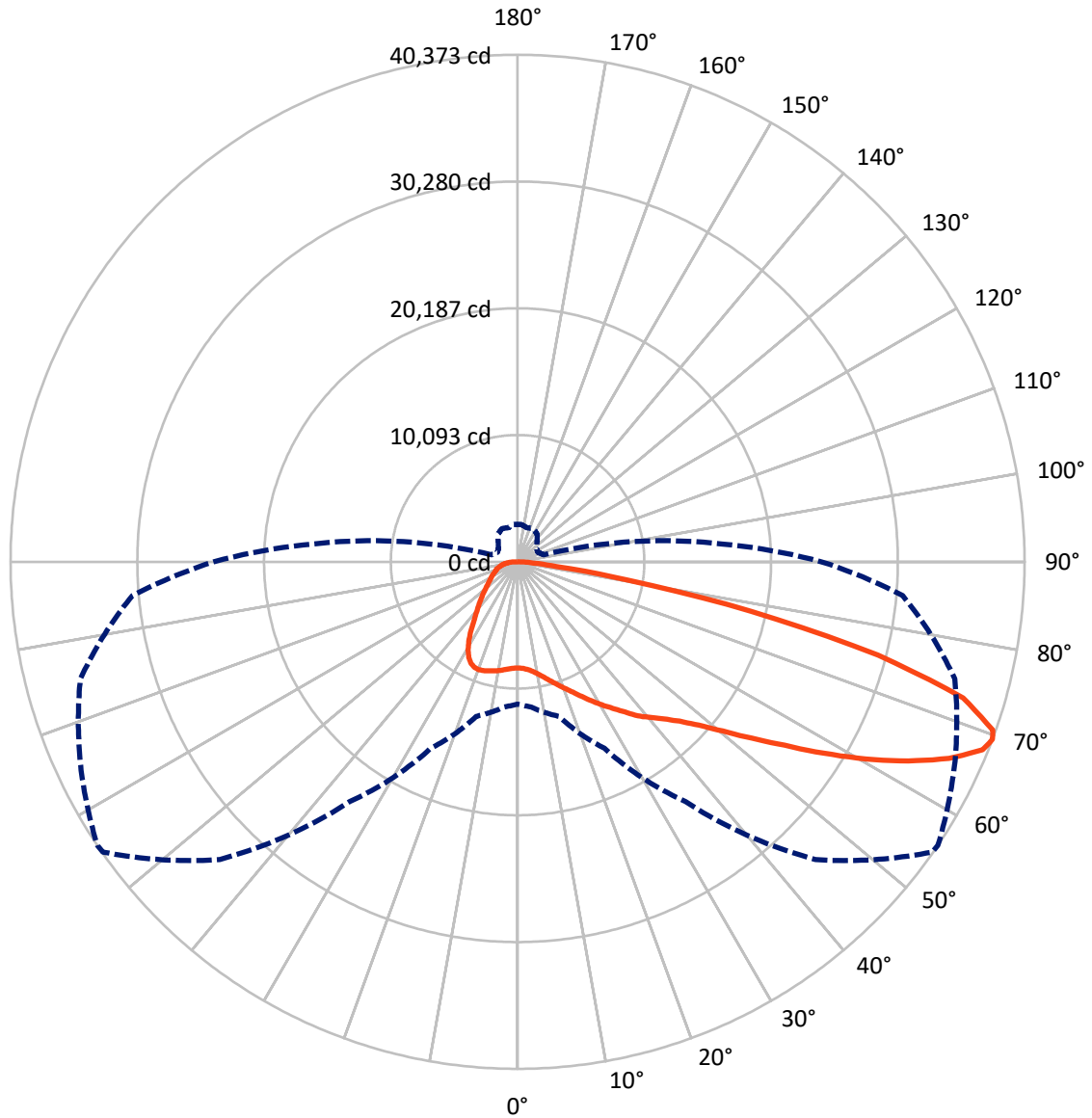
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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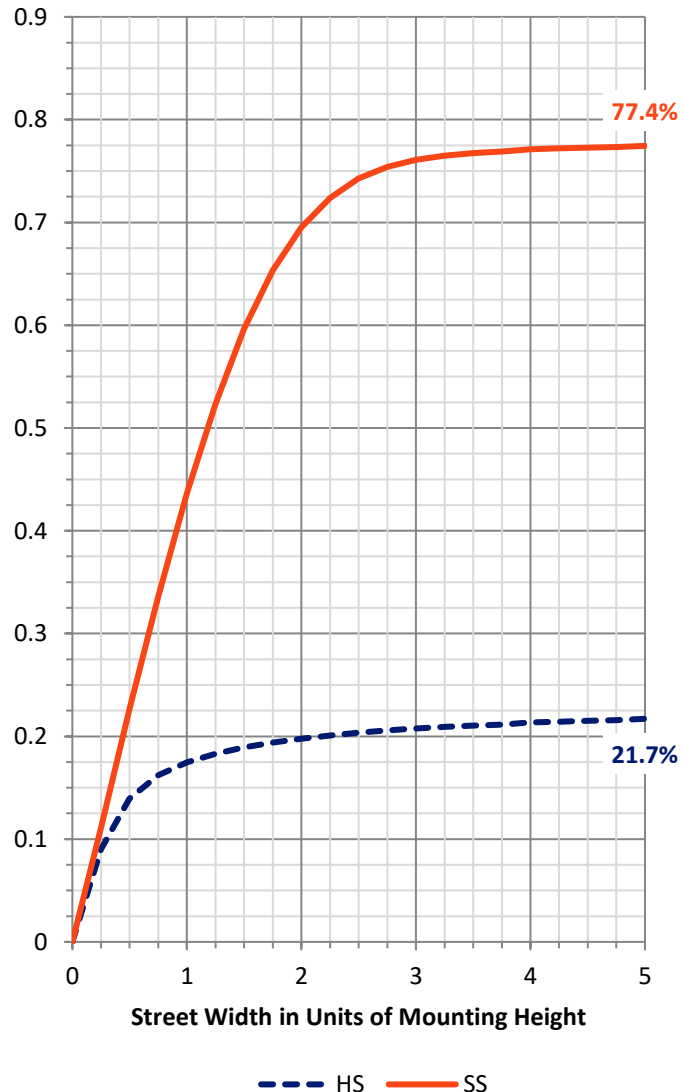
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14393.4	0.0	14393.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	50238.3	0.0	50238.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	64631.7	0.0	64631.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	829.9	1.3
10°-20°	2668.6	4.1
20°-30°	4658.3	7.2
30°-40°	6691.5	10.4
40°-50°	9260.7	14.3
50°-60°	13568.2	21.0
60°-70°	16542.2	25.6
70°-80°	9145.6	14.2
80°-90°	1266.7	2.0
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°	64631.7	100.0
0°-180°	64631.7	100.0

Coefficient of Utilization

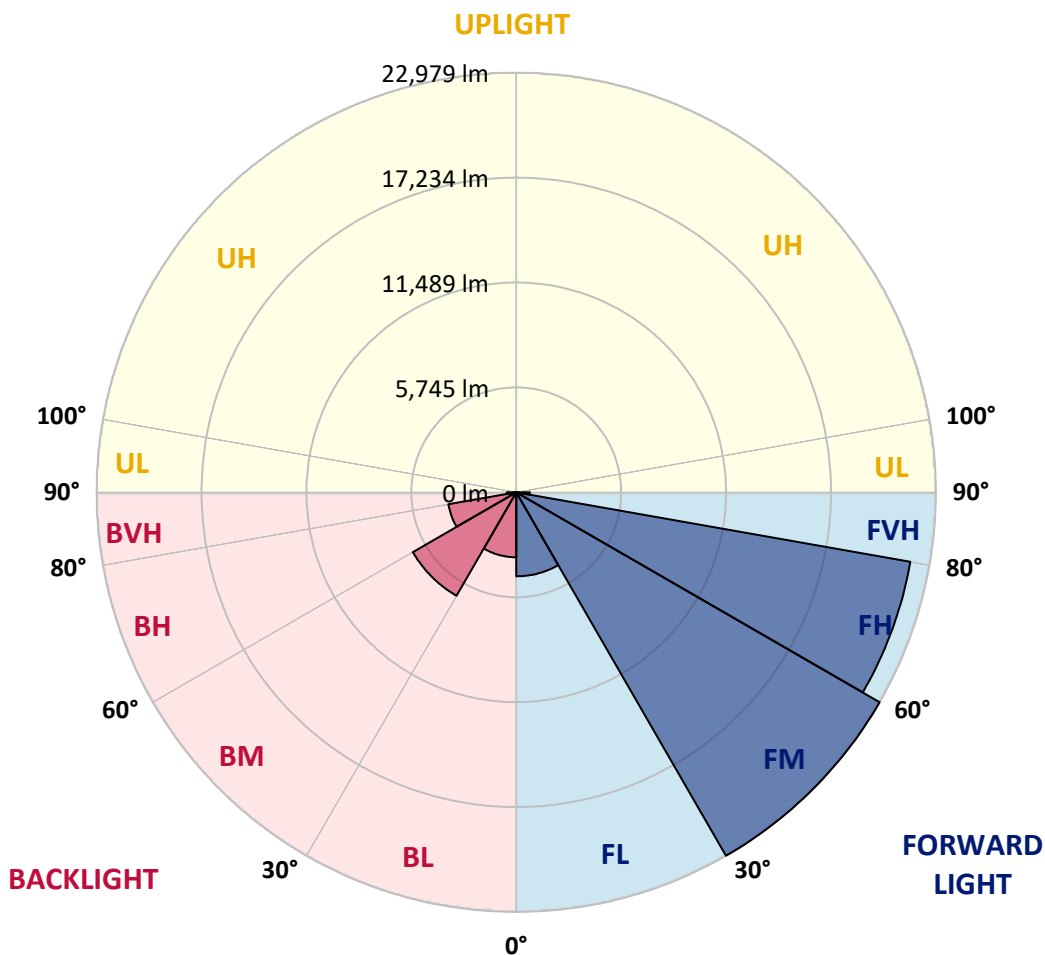


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4599.9	7.1			
FM (30°-60°)	22979.0	35.6			
FH (60°-80°)	21913.4	33.9			G5
FVH (80°-90°)	746.1	1.2			G4/750
BL (0°-30°)	3556.9	5.5	B4/5000		
BM (30°-60°)	6541.5	10.1	B4/8500		
BH (60°-80°)	3774.4	5.8	B4/5000		G4/5000
BVH (80°-90°)	520.6	0.8			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8449.6	8449.6	8449.6	8449.6	8449.6	8449.6	8449.6	8449.6	8449.6	8449.6	8449.6
2.5°	8503.1	8511.9	8505.3	8523.1	8503.1	8516.4	8505.3	8505.3	8498.6	8478.6	8456.3
5°	8636.7	8654.4	8643.4	8661.2	8636.7	8641.1	8621.1	8621.1	8601.0	8558.7	8514.2
7.5°	8846.0	8866.0	8857.1	8874.9	8841.5	8841.5	8814.8	8812.5	8772.5	8703.4	8652.2
10°	9095.4	9122.0	9113.1	9139.9	9113.1	9122.0	9095.4	9095.4	9041.9	8943.9	8879.3
12.5°	9458.2	9491.6	9467.1	9464.9	9453.8	9471.6	9449.3	9444.9	9395.9	9262.3	9173.2
15°	9943.6	9979.2	9928.1	9923.6	9861.3	9854.6	9854.6	9847.9	9816.7	9656.4	9509.4
17.5°	10502.5	10513.6	10469.1	10397.8	10317.6	10266.5	10259.8	10277.6	10277.6	10090.5	9856.8
20°	11050.2	11070.2	11034.6	10954.4	10852.1	10776.3	10722.9	10758.5	10756.3	10533.7	10201.8
22.5°	11646.9	11693.6	11640.2	11537.8	11417.6	11332.9	11239.4	11270.6	11272.8	10999.0	10540.3
25°	12419.5	12377.2	12343.8	12199.1	12027.7	11940.8	11853.9	11885.2	11876.2	11500.0	10889.9
27.5°	13103.1	13111.9	13067.4	12913.8	12715.6	12524.1	12519.7	12539.7	12506.3	12021.0	11219.4
30°	13897.9	13902.3	13840.0	13701.9	13486.0	13238.9	13180.9	13214.4	13143.1	12515.2	11566.7
32.5°	14688.3	14710.6	14641.6	14474.6	14300.9	14000.3	13884.5	13906.8	13728.7	13020.6	11925.2
35°	15380.8	15411.9	15389.6	15278.3	15089.1	14830.8	14692.7	14679.4	14459.0	13639.6	12399.5
37.5°	16086.5	16115.5	16091.0	15997.5	15921.8	15648.0	15574.5	15574.5	15191.5	14272.0	13002.8
40°	16812.4	16856.9	16828.0	16698.8	16634.3	16509.6	16333.8	16291.4	15877.3	15031.2	13987.0
42.5°	17487.0	17545.0	17660.7	17585.0	17453.7	17471.5	17117.5	17095.2	16792.4	16153.4	15222.7
45°	18444.5	18529.0	18724.9	18667.1	18640.4	18542.5	18121.6	18101.6	17985.8	17663.0	16756.8
47.5°	19488.7	19604.4	19958.5	19969.6	20256.9	20072.1	19499.8	19430.8	19457.5	19470.8	18629.3
50°	20450.5	20577.4	21158.6	21432.4	22109.3	22149.4	21234.3	21171.9	21276.5	21583.9	20811.2
52.5°	21218.7	21379.0	22104.9	22950.9	24111.0	24440.5	23369.5	23322.8	23400.7	23930.6	23278.2
55°	21782.0	21955.6	22746.1	24286.8	26139.3	26720.4	25827.5	25783.0	25832.0	26506.6	25961.1
57.5°	21913.4	21955.6	23102.3	25186.3	27851.5	29247.5	28835.6	28746.5	28506.1	29093.9	28922.4
60°	21296.6	21465.8	22808.4	25502.5	29176.3	31738.9	31979.5	31868.1	31193.4	31674.4	31536.3
62.5°	20045.3	20348.1	21710.7	25021.6	29695.0	33774.0	35063.2	34929.6	33767.3	34079.0	33415.5
65°	18001.4	18130.5	19562.1	23362.8	29036.0	35076.5	37812.9	37746.1	36283.3	35795.6	33762.8
67.5°	14345.5	14588.1	15803.8	19896.1	26339.7	34922.9	39939.2	39932.6	37926.5	36432.5	32531.6
69°	11332.9	11584.5	12742.4	16389.4	23307.1	33517.9	40295.5	40373.4	38389.5	36045.0	30772.7
70°	9035.2	9326.8	10121.7	13804.4	20615.3	31665.4	39999.3	40139.6	38300.5	35406.1	29149.5
72.5°	3845.1	4081.2	4646.7	7115.9	12564.2	23645.6	36572.7	37102.6	36236.5	32404.7	24090.8
75°	1678.8	1752.2	2008.3	2901.1	5577.5	12869.2	28650.8	29630.5	30984.2	27390.6	17945.7
77.5°	1229.0	1260.2	1400.5	1703.2	2502.6	4860.4	18424.4	18994.3	22345.3	19931.8	11007.9
80°	950.7	973.0	1082.1	1251.3	1634.3	1966.0	8402.8	8892.7	12564.2	10237.5	4584.4
82.5°	757.0	772.6	848.3	921.8	1128.8	1191.2	2789.8	3094.9	4637.8	2827.7	1213.4
85°	703.6	721.4	748.1	672.4	723.6	699.1	1206.7	1262.4	1400.5	1111.1	507.6
87.5°	318.4	376.3	741.4	523.3	385.2	307.2	494.3	516.5	581.1	583.3	224.9
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°	8449.6	8449.6	8449.6	8449.6	8449.6	8449.6	8449.6	8449.6	8449.6	8449.6	8449.6
2.5°	8469.6	8463.0	8474.1	8447.4	8480.8	8478.6	8467.4	8471.9	8494.1	8491.9	8494.1
5°	8520.9	8516.4	8529.8	8509.8	8549.8	8563.2	8565.4	8585.4	8609.9	8616.6	8616.6
7.5°	8650.0	8650.0	8656.7	8630.0	8656.7	8654.4	8643.4	8663.4	8687.9	8690.1	8687.9
10°	8872.6	8874.9	8863.8	8794.7	8772.5	8712.4	8656.7	8658.9	8690.1	8714.5	8721.2
12.5°	9153.2	9144.3	9095.4	8968.4	8874.9	8752.4	8694.5	8692.3	8723.5	8743.5	8750.2
15°	9473.8	9449.3	9322.5	9115.4	8950.6	8830.3	8736.8	8714.5	8696.7	8674.5	8676.7
17.5°	9776.6	9721.0	9509.4	9222.2	9048.6	8888.3	8707.9	8563.2	8463.0	8405.1	8387.3
20°	10083.9	9974.8	9669.7	9322.5	9102.0	8810.3	8463.0	8169.1	7986.5	7901.9	7886.3
22.5°	10364.4	10188.5	9818.9	9427.1	9059.7	8547.6	8002.1	7574.6	7320.8	7207.2	7216.1
25°	10638.3	10393.4	9974.8	9500.6	8846.0	8084.4	7360.9	6835.4	6541.5	6414.5	6410.2
27.5°	10878.7	10600.5	10144.0	9440.4	8447.4	7425.5	6601.6	6089.5	5844.6	5735.5	5717.7
30°	11154.8	10860.9	10368.9	9211.0	7864.0	6663.9	5860.2	5499.5	5325.8	5216.8	5196.6
32.5°	11491.0	11215.0	10553.7	8794.7	7118.1	5869.1	5281.3	5029.7	4871.6	4749.1	4726.9
35°	11980.9	11682.5	10600.5	8198.0	6298.8	5241.3	4856.1	4597.7	4384.0	4226.0	4210.3
37.5°	12595.4	12268.1	10493.6	7425.5	5504.0	4833.8	4502.0	4183.6	3905.3	3682.7	3647.0
40°	13481.5	12987.3	10197.5	6534.8	4918.4	4519.9	4156.9	3794.0	3448.9	3188.4	3137.2
42.5°	14545.8	13831.2	9743.2	5648.6	4488.7	4201.5	3814.0	3364.3	3034.7	2850.0	2823.2
45°	15899.6	14708.4	9113.1	4873.9	4065.6	3883.1	3444.4	3030.3	2825.5	2689.7	2667.4
47.5°	17444.7	15692.5	8451.8	4243.8	3707.2	3584.7	3148.3	2881.1	2718.5	2611.7	2591.7
50°	19344.0	16803.5	7750.5	3727.2	3346.5	3226.2	3008.1	2798.7	2669.6	2587.2	2567.2
52.5°	21485.9	18057.0	7245.1	3319.8	3048.1	2961.3	2934.6	2754.2	2649.5	2587.2	2567.2
55°	23792.6	19332.8	6699.6	2976.9	2789.8	2814.3	2885.6	2758.7	2687.4	2611.7	2582.7
57.5°	26101.4	20650.9	6091.8	2687.4	2585.0	2705.2	2852.1	2767.5	2707.4	2634.0	2607.2
60°	27927.1	21485.9	5150.0	2444.8	2422.5	2585.0	2772.0	2700.7	2622.9	2625.1	2620.6
62.5°	28779.9	21441.3	4110.2	2228.7	2259.9	2422.5	2642.9	2596.1	2531.6	2618.4	2625.1
65°	28301.3	20372.6	3199.5	2032.8	2086.2	2253.2	2509.3	2544.9	2567.2	2734.2	2756.4
67.5°	26292.9	18293.1	2478.1	1861.3	1928.1	2137.4	2522.6	2772.0	2801.0	2976.9	2974.6
69°	24215.6	16342.6	2153.1	1772.3	1850.2	2166.4	2696.3	2916.8	2807.6	2994.6	2967.9
70°	22474.4	14799.7	1979.4	1712.2	1814.7	2217.6	2812.1	2914.5	2774.2	2934.6	2890.0
72.5°	17308.9	10647.2	1678.8	1600.9	1694.4	2121.9	2845.5	2850.0	2696.3	2727.5	2651.7
75°	11871.7	6728.6	1465.0	1449.5	1511.8	1912.6	2738.7	2723.0	2493.7	2449.1	2386.8
77.5°	6546.0	3417.7	1244.6	1304.7	1347.0	1694.4	2489.3	2467.0	2277.7	2184.2	2161.9
80°	2524.9	1496.3	1050.9	1160.1	1186.7	1467.3	2182.0	2161.9	2003.9	1883.6	1850.2
82.5°	953.0	783.7	868.3	1004.1	995.3	1211.2	1848.0	1836.9	1683.2	1507.3	1454.0
85°	440.8	469.8	687.9	828.2	763.7	897.3	1478.4	1498.5	1311.4	1102.1	1102.1
87.5°	187.1	262.7	487.6	625.6	514.3	605.6	1084.3	1035.3	950.7	659.1	619.0
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)