

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: P318363

Luminaire Tested: **GAN-SA9B-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318363
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-SA9B-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46536 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

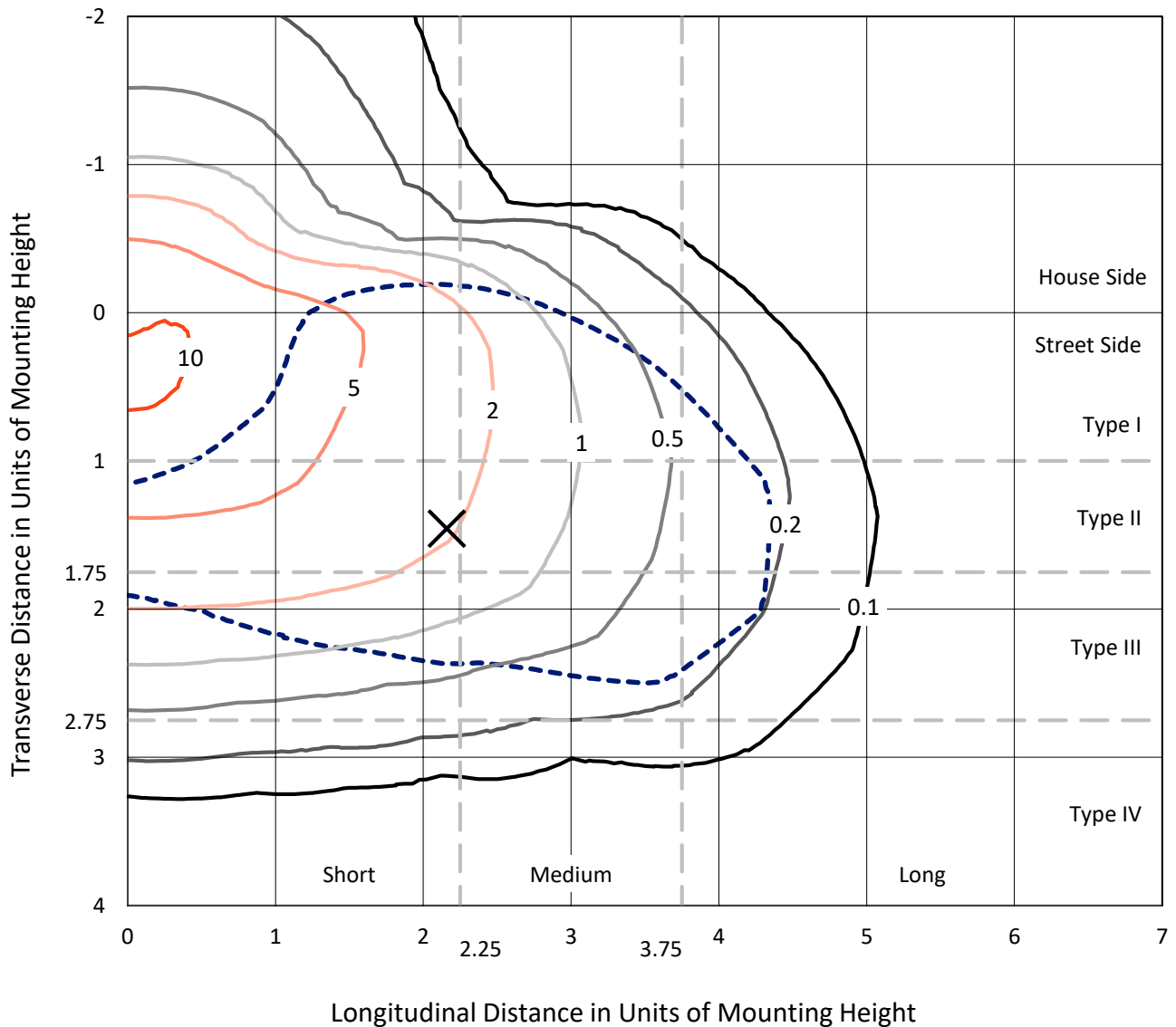
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

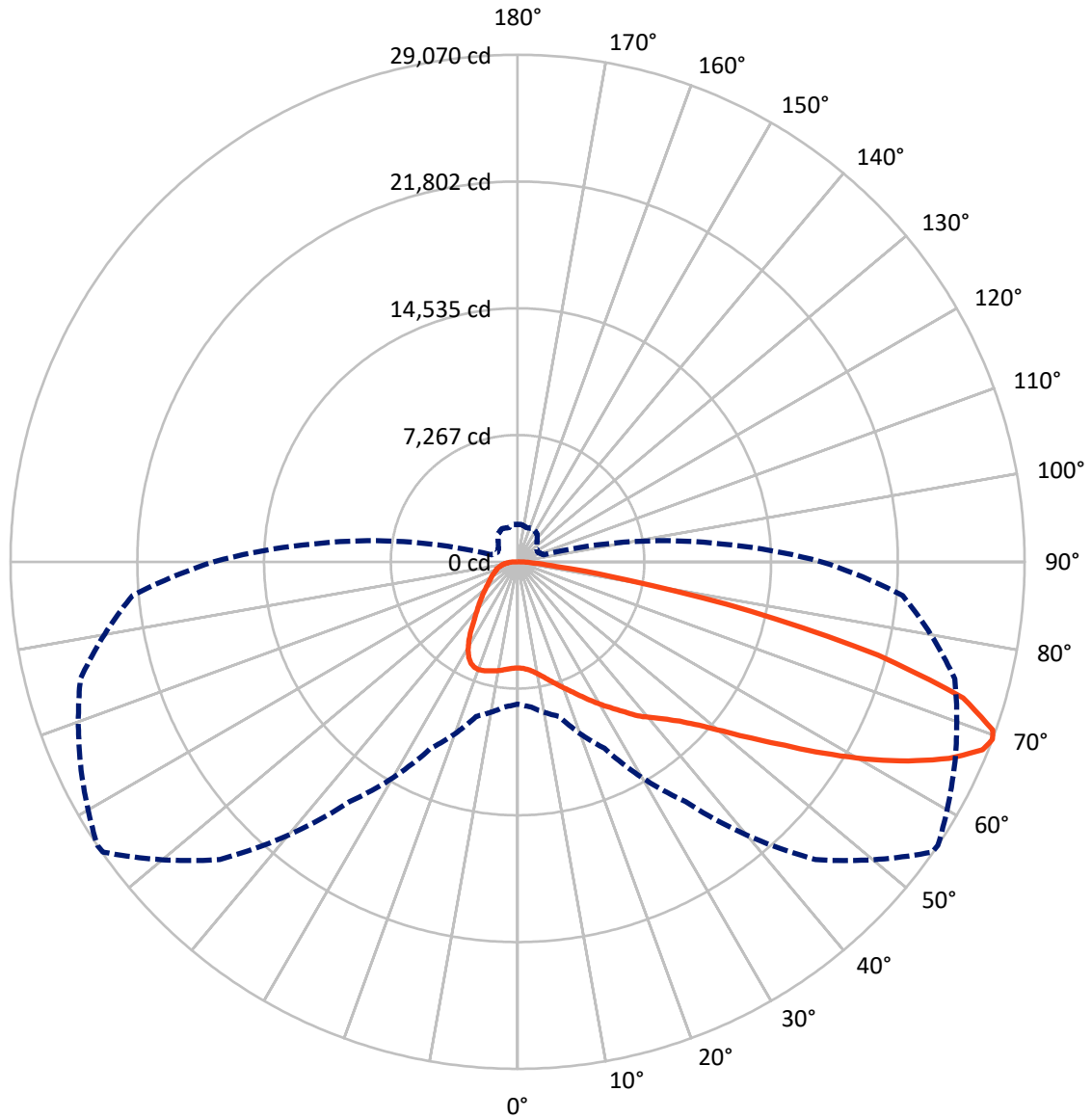
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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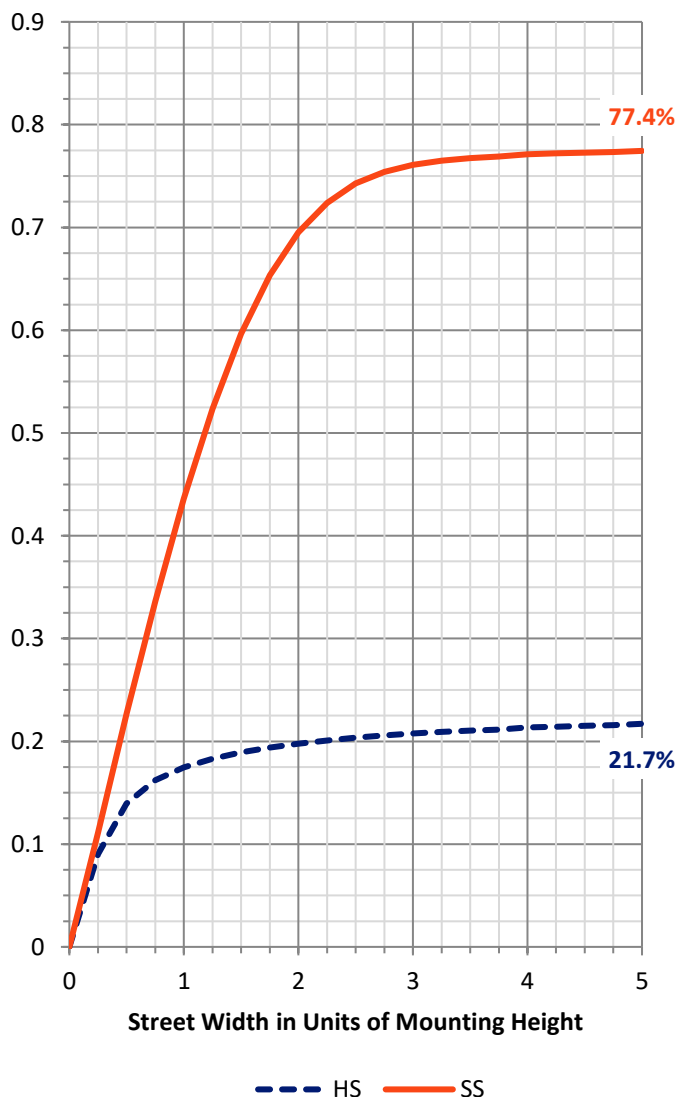
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10363.5	0.0	10363.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	36172.5	0.0	36172.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	46536.0	0.0	46536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.5	1.3
10°-20°	1921.4	4.1
20°-30°	3354.1	7.2
30°-40°	4818.0	10.4
40°-50°	6667.9	14.3
50°-60°	9769.4	21.0
60°-70°	11910.7	25.6
70°-80°	6585.0	14.2
80°-90°	912.0	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°	46536.0	100.0
0°-180°	46536.0	100.0

Coefficient of Utilization

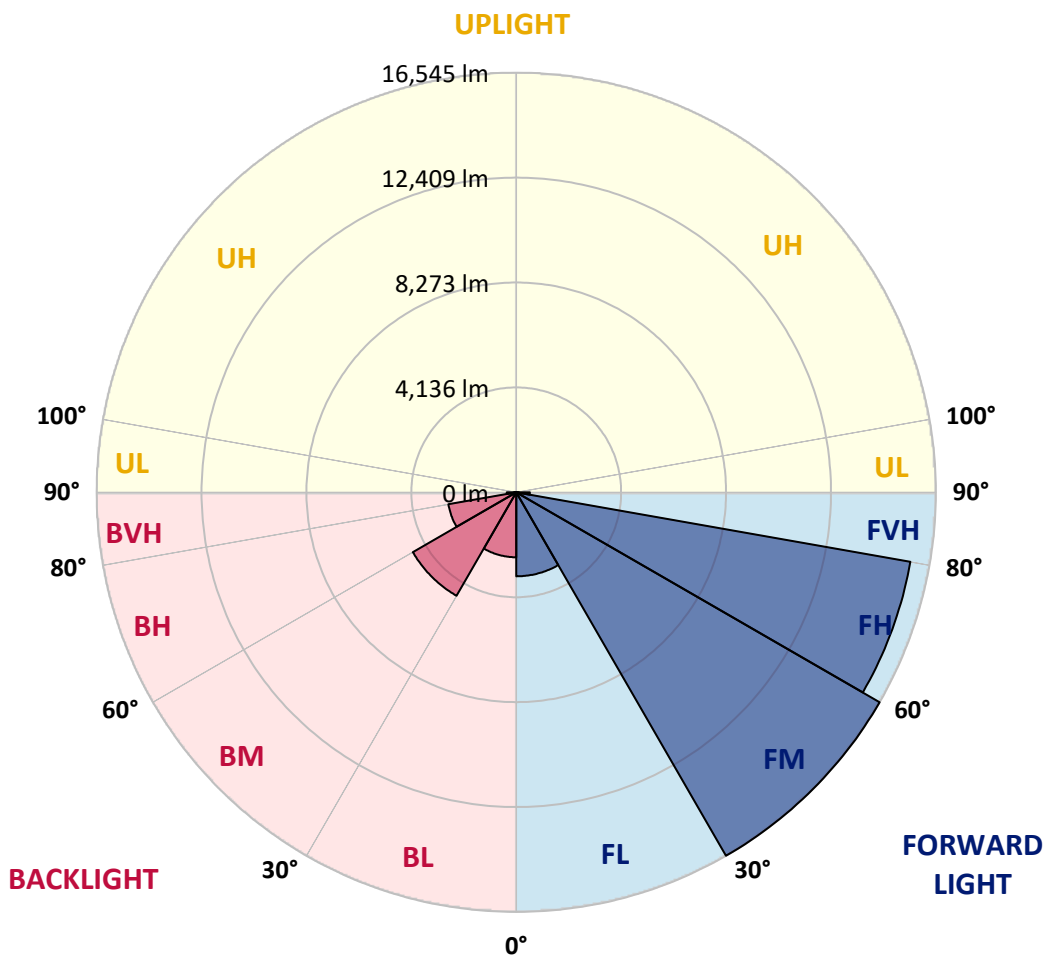


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3312.0	7.1			
FM (30°-60°)	16545.3	35.6			
FH (60°-80°)	15778.0	33.9			G5
FVH (80°-90°)	537.2	1.2			G4/750
BL (0°-30°)	2561.1	5.5	B4/5000		
BM (30°-60°)	4710.0	10.1	B3/5000		
BH (60°-80°)	2717.6	5.8	B4/5000		G4/5000
BVH (80°-90°)	374.8	0.8			G3/500
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°	6083.9	6083.9	6083.9	6083.9	6083.9	6083.9	6083.9	6083.9	6083.9	6083.9	6083.9
2.5°	6122.4	6128.8	6124.0	6136.8	6122.4	6132.0	6124.0	6124.0	6119.2	6104.7	6088.7
5°	6218.5	6231.4	6223.4	6236.2	6218.5	6221.8	6207.3	6207.3	6192.9	6162.4	6130.4
7.5°	6369.2	6383.7	6377.3	6390.1	6366.0	6366.0	6346.8	6345.2	6316.3	6266.6	6229.8
10°	6548.8	6568.0	6561.6	6580.9	6561.6	6568.0	6548.8	6548.8	6510.3	6439.8	6393.3
12.5°	6810.1	6834.1	6816.5	6814.9	6806.9	6819.7	6803.7	6800.5	6765.2	6669.0	6604.9
15°	7159.6	7185.2	7148.4	7145.2	7100.3	7095.5	7095.5	7090.6	7068.2	6952.8	6847.0
17.5°	7562.0	7570.0	7537.9	7486.6	7428.9	7392.0	7387.2	7400.1	7400.1	7265.4	7097.1
20°	7956.3	7970.8	7945.1	7887.4	7813.7	7759.2	7720.7	7746.3	7744.7	7584.4	7345.5
22.5°	8386.0	8419.6	8381.2	8307.4	8220.9	8159.9	8092.6	8115.0	8116.7	7919.5	7589.2
25°	8942.3	8911.8	8887.8	8783.6	8660.1	8597.6	8535.1	8557.5	8551.1	8280.2	7840.9
27.5°	9434.4	9440.8	9408.8	9298.2	9155.5	9017.6	9014.4	9028.8	9004.8	8655.3	8078.2
30°	10006.7	10009.9	9965.1	9865.7	9710.2	9532.2	9490.5	9514.6	9463.3	9011.2	8328.3
32.5°	10575.9	10591.9	10542.2	10422.0	10296.9	10080.5	9997.1	10013.2	9884.9	9375.1	8586.4
35°	11074.4	11096.9	11080.8	11000.7	10864.4	10678.5	10579.1	10569.4	10410.7	9820.8	8927.8
37.5°	11582.6	11603.5	11585.8	11518.5	11464.0	11266.8	11213.9	11213.9	10938.2	10276.1	9362.3
40°	12105.2	12137.3	12116.5	12023.5	11977.0	11887.2	11760.6	11730.1	11431.9	10822.7	10070.9
42.5°	12591.0	12632.7	12716.0	12661.5	12566.9	12579.8	12324.9	12308.8	12090.8	11630.7	10960.6
45°	13280.3	13341.3	13482.3	13440.6	13421.4	13350.9	13047.9	13033.5	12950.1	12717.6	12065.2
47.5°	14032.2	14115.6	14370.5	14378.5	14585.3	14452.2	14040.2	13990.5	14009.8	14019.4	13413.4
50°	14724.8	14816.1	15234.6	15431.7	15919.1	15947.9	15289.1	15244.2	15319.5	15540.8	14984.5
52.5°	15277.8	15393.3	15915.9	16525.1	17360.3	17597.6	16826.5	16792.8	16848.9	17230.5	16760.7
55°	15683.4	15808.5	16377.6	17487.0	18820.8	19239.2	18596.3	18564.3	18599.5	19085.3	18692.5
57.5°	15778.0	15808.5	16634.1	18134.6	20053.6	21058.7	20762.1	20698.0	20524.9	20948.1	20824.7
60°	15333.9	15455.8	16422.5	18362.3	21007.4	22852.6	23025.8	22945.6	22459.9	22806.1	22706.7
62.5°	14433.0	14651.0	15632.1	18016.0	21381.0	24317.9	25246.1	25149.9	24313.1	24537.5	24059.8
65°	12961.3	13054.3	14085.1	16821.7	20906.4	25255.7	27226.0	27177.9	26124.6	25773.5	24309.9
67.5°	10329.0	10503.7	11379.0	14325.6	18965.0	25145.1	28757.0	28752.2	27307.7	26232.0	23423.3
69°	8159.9	8341.1	9174.7	11800.6	16781.6	24133.5	29013.5	29069.6	27641.2	25953.1	22156.9
70°	6505.5	6715.5	7287.8	9939.4	14843.4	22799.7	28800.2	28901.2	27577.1	25493.0	20988.2
72.5°	2768.6	2938.5	3345.7	5123.6	9046.5	17025.2	26333.0	26714.6	26091.0	23332.0	17345.9
75°	1208.8	1261.7	1446.0	2088.9	4015.8	9266.1	20629.1	21334.5	22309.2	19721.7	12921.2
77.5°	884.9	907.4	1008.4	1226.4	1801.9	3499.6	13265.9	13676.3	16089.0	14351.2	7925.9
80°	684.5	700.6	779.1	901.0	1176.7	1415.6	6050.2	6402.9	9046.5	7371.2	3300.8
82.5°	545.1	556.3	610.8	663.7	812.8	857.7	2008.7	2228.4	3339.3	2036.0	873.7
85°	506.6	519.4	538.7	484.1	521.0	503.4	868.9	909.0	1008.4	800.0	365.5
87.5°	229.2	270.9	533.8	376.7	277.3	221.2	355.9	371.9	418.4	420.0	161.9
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°	6083.9	6083.9	6083.9	6083.9	6083.9	6083.9	6083.9	6083.9	6083.9	6083.9	6083.9
2.5°	6098.3	6093.5	6101.5	6082.3	6106.3	6104.7	6096.7	6099.9	6115.9	6114.3	6115.9
5°	6135.2	6132.0	6141.6	6127.2	6156.0	6165.6	6167.2	6181.7	6199.3	6204.1	6204.1
7.5°	6228.2	6228.2	6233.0	6213.7	6233.0	6231.4	6223.4	6237.8	6255.4	6257.0	6255.4
10°	6388.5	6390.1	6382.1	6332.4	6316.3	6273.1	6233.0	6234.6	6257.0	6274.7	6279.5
12.5°	6590.5	6584.1	6548.8	6457.4	6390.1	6301.9	6260.2	6258.6	6281.1	6295.5	6300.3
15°	6821.3	6803.7	6712.3	6563.2	6444.6	6358.0	6290.7	6274.7	6261.8	6245.8	6247.4
17.5°	7039.3	6999.3	6847.0	6640.2	6515.1	6399.7	6269.8	6165.6	6093.5	6051.8	6039.0
20°	7260.6	7182.0	6962.4	6712.3	6553.6	6343.6	6093.5	5881.9	5750.4	5689.5	5678.3
22.5°	7462.6	7335.9	7069.8	6787.7	6523.1	6154.4	5761.7	5453.9	5271.1	5189.3	5195.7
25°	7659.8	7483.4	7182.0	6840.6	6369.2	5821.0	5300.0	4921.6	4710.0	4618.6	4615.4
27.5°	7832.9	7632.5	7303.9	6797.3	6082.3	5346.4	4753.3	4384.6	4208.2	4129.7	4116.8
30°	8031.7	7820.1	7465.8	6632.2	5662.3	4798.2	4219.4	3959.7	3834.7	3756.1	3741.7
32.5°	8273.8	8075.0	7598.8	6332.4	5125.2	4225.9	3802.6	3621.5	3507.7	3419.5	3403.4
35°	8626.4	8411.6	7632.5	5902.7	4535.3	3773.8	3496.4	3310.5	3156.6	3042.7	3031.5
37.5°	9068.9	8833.3	7555.6	5346.4	3962.9	3480.4	3241.5	3012.3	2811.9	2651.6	2625.9
40°	9707.0	9351.1	7342.3	4705.2	3541.3	3254.4	2993.0	2731.7	2483.2	2295.7	2258.8
42.5°	10473.3	9958.6	7015.3	4067.1	3231.9	3025.1	2746.2	2422.3	2185.1	2052.0	2032.8
45°	11448.0	10590.3	6561.6	3509.3	2927.3	2795.9	2480.0	2181.9	2034.4	1936.6	1920.6
47.5°	12560.5	11298.9	6085.5	3055.6	2669.2	2581.0	2266.8	2074.5	1957.4	1880.5	1866.0
50°	13928.0	12098.8	5580.5	2683.6	2409.5	2322.9	2165.8	2015.1	1922.2	1862.8	1848.4
52.5°	15470.2	13001.4	5216.6	2390.3	2194.7	2132.2	2112.9	1983.1	1907.7	1862.8	1848.4
55°	17131.1	13920.0	4823.8	2143.4	2008.7	2026.4	2077.7	1986.3	1935.0	1880.5	1859.6
57.5°	18793.5	14869.0	4386.2	1935.0	1861.2	1947.8	2053.6	1992.7	1949.4	1896.5	1877.3
60°	20108.1	15470.2	3708.0	1760.2	1744.2	1861.2	1995.9	1944.6	1888.5	1890.1	1886.9
62.5°	20722.1	15438.1	2959.4	1604.7	1627.2	1744.2	1902.9	1869.3	1822.8	1885.3	1890.1
65°	20377.4	14668.6	2303.7	1463.7	1502.1	1622.4	1806.7	1832.4	1848.4	1968.6	1984.7
67.5°	18931.4	13171.3	1784.3	1340.2	1388.3	1539.0	1816.3	1995.9	2016.7	2143.4	2141.8
69°	17435.7	11767.0	1550.2	1276.1	1332.2	1559.8	1941.4	2100.1	2021.5	2156.2	2137.0
70°	16182.0	10656.0	1425.2	1232.8	1306.6	1596.7	2024.8	2098.5	1997.5	2112.9	2080.9
72.5°	12462.7	7666.2	1208.8	1152.7	1220.0	1527.8	2048.8	2052.0	1941.4	1963.8	1909.3
75°	8547.9	4844.7	1054.9	1043.6	1088.5	1377.1	1971.9	1960.6	1795.5	1763.4	1718.6
77.5°	4713.2	2460.8	896.2	939.4	969.9	1220.0	1792.3	1776.3	1640.0	1572.7	1556.6
80°	1818.0	1077.3	756.7	835.2	854.5	1056.5	1571.1	1556.6	1442.8	1356.2	1332.2
82.5°	686.1	564.3	625.2	723.0	716.6	872.1	1330.6	1322.6	1212.0	1085.3	1046.8
85°	317.4	338.3	495.4	596.4	549.9	646.1	1064.5	1078.9	944.2	793.5	793.5
87.5°	134.7	189.2	351.1	450.5	370.3	436.1	780.7	745.5	684.5	474.5	445.7
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)