

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: P318364

Luminaire Tested: **GAN-SA0B-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318364
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-SA0B-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 51522 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

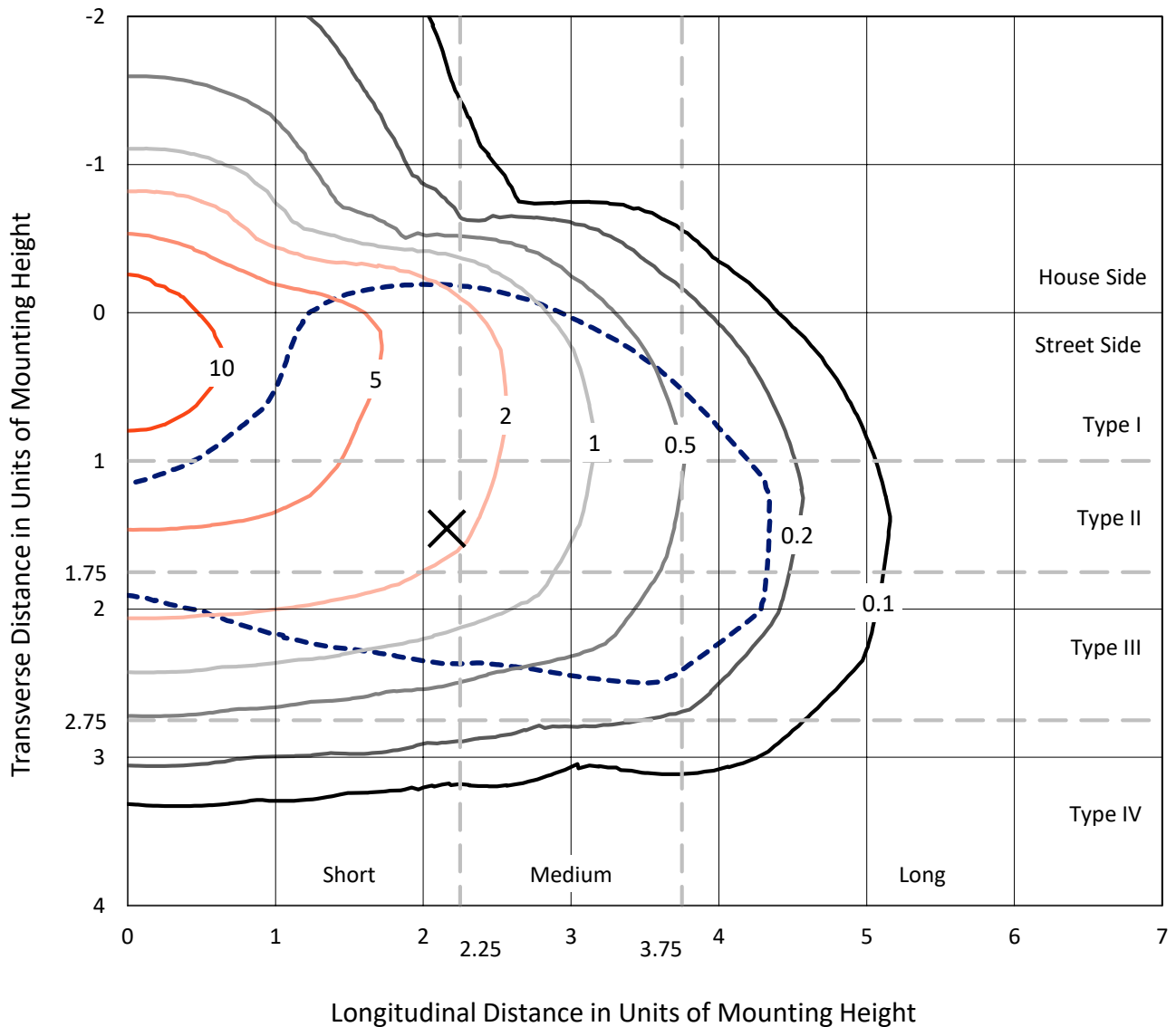
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

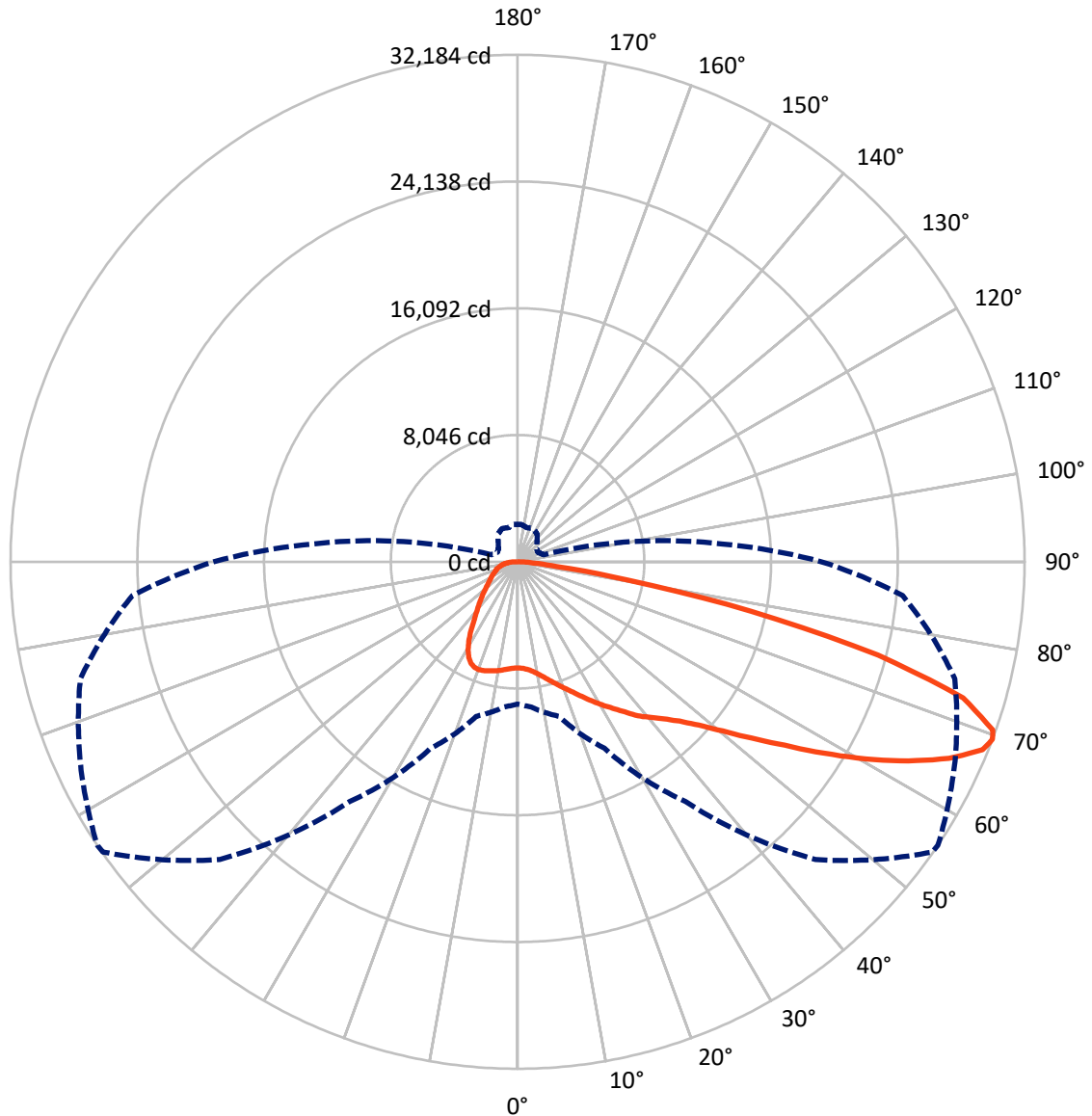
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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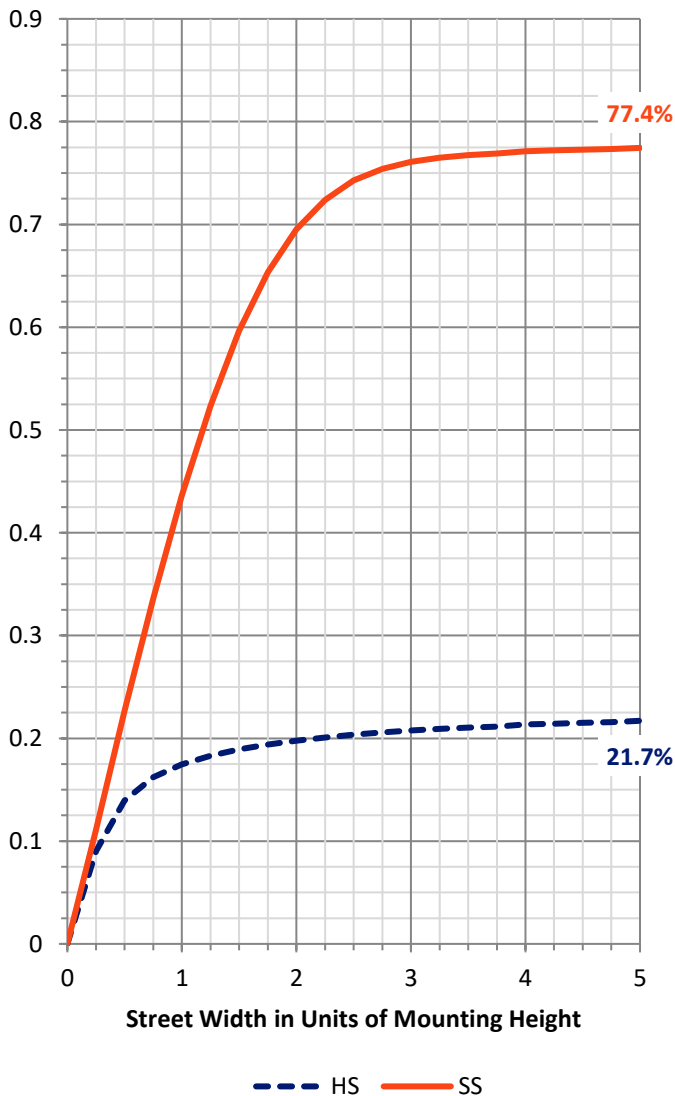
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11473.9	0.0	11473.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	40048.1	0.0	40048.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	51522.0	0.0	51522.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.5	1.3
10°-20°	2127.3	4.1
20°-30°	3713.4	7.2
30°-40°	5334.2	10.4
40°-50°	7382.3	14.3
50°-60°	10816.1	21.0
60°-70°	13186.8	25.6
70°-80°	7290.5	14.2
80°-90°	1009.7	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°	51522.0	100.0
0°-180°	51522.0	100.0

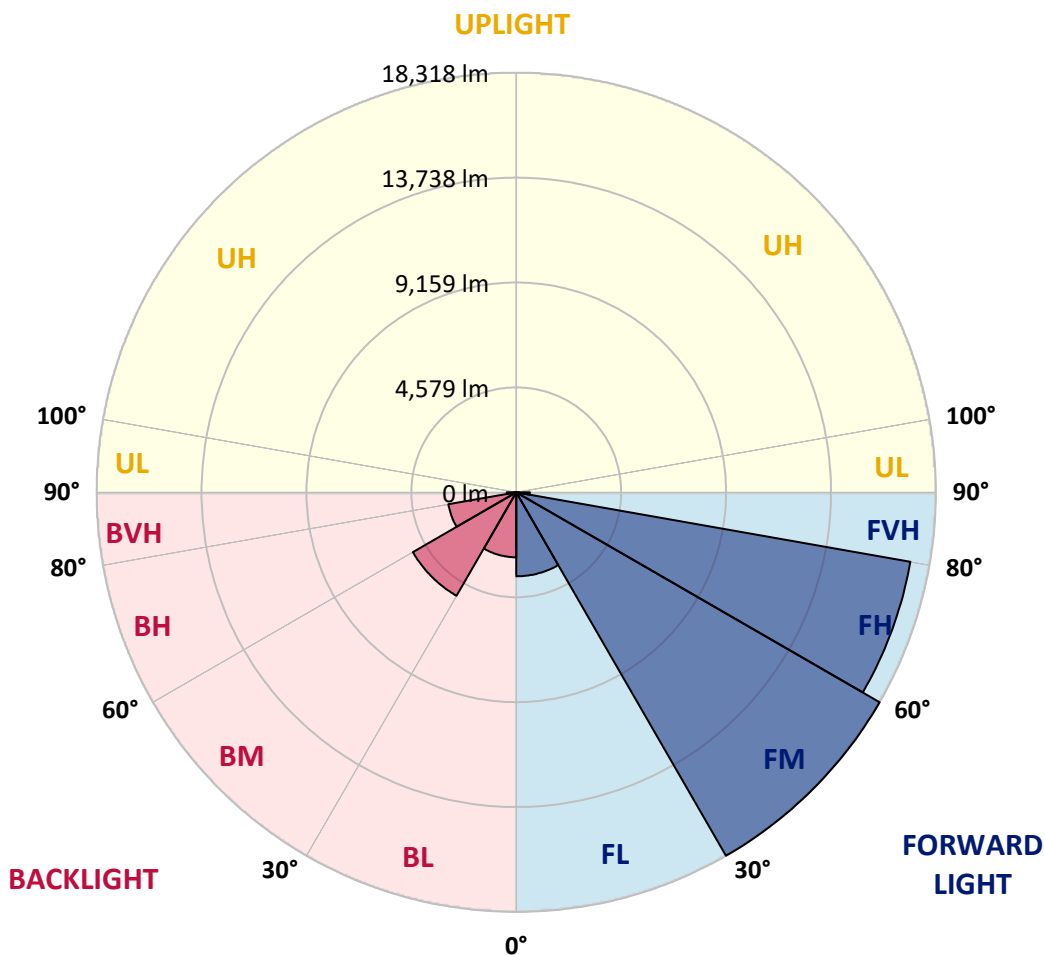


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3666.8	7.1			
FM (30°-60°)	18318.0	35.6			
FH (60°-80°)	17468.5	33.9			G5
FVH (80°-90°)	594.8	1.2			G4/750
BL (0°-30°)	2835.5	5.5	B4/5000		
BM (30°-60°)	5214.6	10.1	B4/8500		
BH (60°-80°)	3008.8	5.8	B4/5000		G4/5000
BVH (80°-90°)	415.0	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°	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7
2.5°	6778.3	6785.4	6780.1	6794.3	6778.3	6789.0	6780.1	6780.1	6774.8	6758.8	6741.1
5°	6884.8	6899.0	6890.1	6904.3	6884.8	6888.4	6872.4	6872.4	6856.4	6822.7	6787.2
7.5°	7051.7	7067.6	7060.5	7074.7	7048.1	7048.1	7026.8	7025.0	6993.1	6938.1	6897.2
10°	7250.4	7271.7	7264.6	7285.9	7264.6	7271.7	7250.4	7250.4	7207.8	7129.8	7078.3
12.5°	7539.8	7566.4	7546.9	7545.1	7536.2	7550.4	7532.7	7529.1	7490.1	7383.6	7312.6
15°	7926.7	7955.1	7914.3	7910.7	7861.0	7855.7	7855.7	7850.4	7825.5	7697.7	7580.6
17.5°	8372.2	8381.1	8345.6	8288.8	8224.9	8184.0	8178.7	8192.9	8192.9	8043.8	7857.5
20°	8808.8	8824.8	8796.4	8732.5	8650.8	8590.5	8547.9	8576.3	8574.5	8397.0	8132.6
22.5°	9284.5	9321.7	9279.2	9197.5	9101.7	9034.2	8959.7	8984.5	8986.3	8768.0	8402.4
25°	9900.4	9866.6	9840.0	9724.6	9588.0	9518.8	9449.5	9474.4	9467.3	9167.3	8681.0
27.5°	10445.3	10452.4	10416.9	10294.4	10136.4	9983.8	9980.2	9996.2	9969.6	9582.7	8943.7
30°	11078.9	11082.4	11032.7	10922.7	10750.5	10553.5	10507.4	10534.0	10477.2	9976.7	9220.6
32.5°	11709.0	11726.7	11671.7	11538.6	11400.1	11160.5	11068.2	11086.0	10944.0	10379.6	9506.3
35°	12261.0	12285.8	12268.1	12179.3	12028.5	11822.6	11712.5	11701.9	11526.2	10873.0	9884.4
37.5°	12823.6	12846.7	12827.2	12752.6	12692.3	12474.0	12415.4	12415.4	12110.1	11377.1	10365.4
40°	13402.2	13437.7	13414.7	13311.7	13260.2	13160.8	13020.6	12986.9	12656.8	11982.3	11149.9
42.5°	13940.0	13986.2	14078.5	14018.1	13913.4	13927.6	13645.4	13627.6	13386.3	12876.9	12135.0
45°	14703.2	14770.7	14926.9	14880.7	14859.4	14781.3	14445.9	14429.9	14337.6	14080.2	13357.9
47.5°	15535.7	15627.9	15910.2	15919.0	16148.0	16000.7	15544.5	15489.5	15510.8	15521.5	14850.5
50°	16302.4	16403.6	16866.8	17085.1	17624.7	17656.7	16927.2	16877.5	16960.9	17205.8	16589.9
52.5°	16914.7	17042.5	17621.2	18295.6	19220.3	19483.0	18629.3	18592.0	18654.1	19076.6	18556.5
55°	17363.8	17502.2	18132.3	19360.6	20837.3	21300.5	20588.8	20553.3	20592.3	21130.1	20695.3
57.5°	17468.5	17502.2	18416.3	20077.6	22202.2	23315.0	22986.7	22915.7	22724.0	23192.6	23055.9
60°	16976.9	17111.8	18182.0	20329.6	23258.2	25301.1	25492.8	25404.1	24866.3	25249.7	25139.6
62.5°	15979.4	16220.8	17307.0	19946.3	23671.8	26923.4	27951.0	27844.6	26918.1	27166.5	26637.6
65°	14350.0	14453.0	15594.2	18624.0	23146.4	27961.7	30143.0	30089.8	28923.7	28535.0	26914.5
67.5°	11435.6	11629.1	12598.2	15860.5	20997.0	27839.2	31838.1	31832.7	30233.6	29042.6	25933.0
69°	9034.2	9234.8	10157.7	13065.0	18579.6	26719.3	32122.0	32184.2	30602.7	28733.8	24530.8
70°	7202.5	7435.0	8068.7	11004.3	16433.8	25242.6	31886.0	31997.8	30531.7	28224.4	23236.9
72.5°	3065.2	3253.4	3704.2	5672.6	10015.7	18849.4	29154.4	29576.8	28886.4	25831.8	19204.4
75°	1338.3	1396.8	1601.0	2312.7	4446.1	10258.9	22839.3	23620.3	24699.4	21834.8	14305.7
77.5°	979.7	1004.6	1116.4	1357.8	1995.0	3874.6	14687.3	15141.6	17812.8	15888.9	8775.1
80°	757.9	775.6	862.6	997.5	1302.8	1567.2	6698.5	7088.9	10015.7	8161.0	3654.5
82.5°	603.5	615.9	676.2	734.8	899.9	949.6	2223.9	2467.1	3697.1	2254.1	967.3
85°	560.9	575.1	596.4	536.0	576.8	557.3	962.0	1006.4	1116.4	885.7	404.7
87.5°	253.8	300.0	591.0	417.1	307.1	244.9	394.0	411.8	463.2	465.0	179.3
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°	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7	6735.7
2.5°	6751.7	6746.4	6755.2	6734.0	6760.6	6758.8	6749.9	6753.5	6771.2	6769.4	6771.2
5°	6792.5	6789.0	6799.6	6783.6	6815.6	6826.2	6828.0	6844.0	6863.5	6868.8	6868.8
7.5°	6895.5	6895.5	6900.8	6879.5	6900.8	6899.0	6890.1	6906.1	6925.6	6927.4	6925.6
10°	7073.0	7074.7	7065.9	7010.8	6993.1	6945.2	6900.8	6902.6	6927.4	6946.9	6952.3
12.5°	7296.6	7289.5	7250.4	7149.3	7074.7	6977.1	6931.0	6929.2	6954.0	6970.0	6975.3
15°	7552.2	7532.7	7431.5	7266.4	7135.1	7039.2	6964.7	6946.9	6932.7	6915.0	6916.8
17.5°	7793.6	7749.2	7580.6	7351.6	7213.2	7085.4	6941.6	6826.2	6746.4	6700.2	6686.0
20°	8038.5	7951.5	7708.4	7431.5	7255.8	7023.3	6746.4	6512.1	6366.5	6299.1	6286.7
22.5°	8262.1	8121.9	7827.3	7514.9	7222.0	6813.8	6379.0	6038.2	5835.9	5745.3	5752.4
25°	8480.4	8285.2	7951.5	7573.5	7051.7	6444.6	5867.8	5448.9	5214.6	5113.5	5109.9
27.5°	8672.1	8450.3	8086.4	7525.6	6734.0	5919.3	5262.6	4854.3	4659.1	4572.1	4557.9
30°	8892.2	8657.9	8265.7	7342.7	6268.9	5312.3	4671.5	4384.0	4245.5	4158.6	4142.6
32.5°	9160.2	8940.1	8413.0	7010.8	5674.3	4678.6	4210.1	4009.5	3883.5	3785.9	3768.1
35°	9550.7	9312.9	8450.3	6535.2	5021.2	4178.1	3871.0	3665.2	3494.8	3368.8	3356.3
37.5°	10040.6	9779.7	8365.1	5919.3	4387.5	3853.3	3588.8	3335.0	3113.2	2935.7	2907.3
40°	10747.0	10353.0	8129.0	5209.3	3920.7	3603.0	3313.7	3024.4	2749.3	2541.6	2500.8
42.5°	11595.4	11025.6	7766.9	4502.9	3578.2	3349.2	3040.4	2681.9	2419.2	2271.9	2250.6
45°	12674.5	11725.0	7264.6	3885.2	3241.0	3095.4	2745.8	2415.6	2252.3	2144.1	2126.3
47.5°	13906.3	12509.5	6737.5	3382.9	2955.2	2857.6	2509.7	2296.7	2167.1	2082.0	2066.0
50°	15420.3	13395.1	6178.4	2971.2	2667.7	2571.8	2397.9	2231.0	2128.1	2062.4	2046.5
52.5°	17127.7	14394.4	5775.5	2646.4	2429.8	2360.6	2339.3	2195.5	2112.1	2062.4	2046.5
55°	18966.5	15411.4	5340.7	2373.0	2223.9	2243.5	2300.3	2199.1	2142.3	2082.0	2058.9
57.5°	20807.1	16462.1	4856.1	2142.3	2060.7	2156.5	2273.6	2206.2	2158.3	2099.7	2078.4
60°	22262.5	17127.7	4105.3	1948.8	1931.1	2060.7	2209.7	2152.9	2090.8	2092.6	2089.1
62.5°	22942.3	17092.2	3276.5	1776.7	1801.5	1931.1	2106.8	2069.5	2018.1	2087.3	2092.6
65°	22560.7	16240.3	2550.5	1620.5	1663.1	1796.2	2000.3	2028.7	2046.5	2179.6	2197.3
67.5°	20959.7	14582.5	1975.5	1483.8	1537.1	1703.9	2011.0	2209.7	2232.8	2373.0	2371.3
69°	19303.8	13027.7	1716.3	1412.8	1474.9	1727.0	2149.4	2325.1	2238.1	2387.2	2365.9
70°	17915.8	11797.7	1577.9	1364.9	1446.5	1767.8	2241.7	2323.3	2211.5	2339.3	2303.8
72.5°	13798.0	8487.5	1338.3	1276.1	1350.7	1691.5	2268.3	2271.9	2149.4	2174.2	2113.9
75°	9463.7	5363.7	1167.9	1155.5	1205.2	1524.6	2183.1	2170.7	1987.9	1952.4	1902.7
77.5°	5218.2	2724.5	992.2	1040.1	1073.8	1350.7	1984.3	1966.6	1815.7	1741.2	1723.4
80°	2012.7	1192.7	837.8	924.7	946.0	1169.7	1739.4	1723.4	1597.4	1501.6	1474.9
82.5°	759.7	624.8	692.2	800.5	793.4	965.5	1473.2	1464.3	1341.8	1201.6	1159.0
85°	351.4	374.5	548.4	660.3	608.8	715.3	1178.5	1194.5	1045.4	878.6	878.6
87.5°	149.1	209.4	388.7	498.7	410.0	482.8	864.4	825.3	757.9	525.4	493.4
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)