

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: P317401

Luminaire Tested: **GAN-SA7B-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38351 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

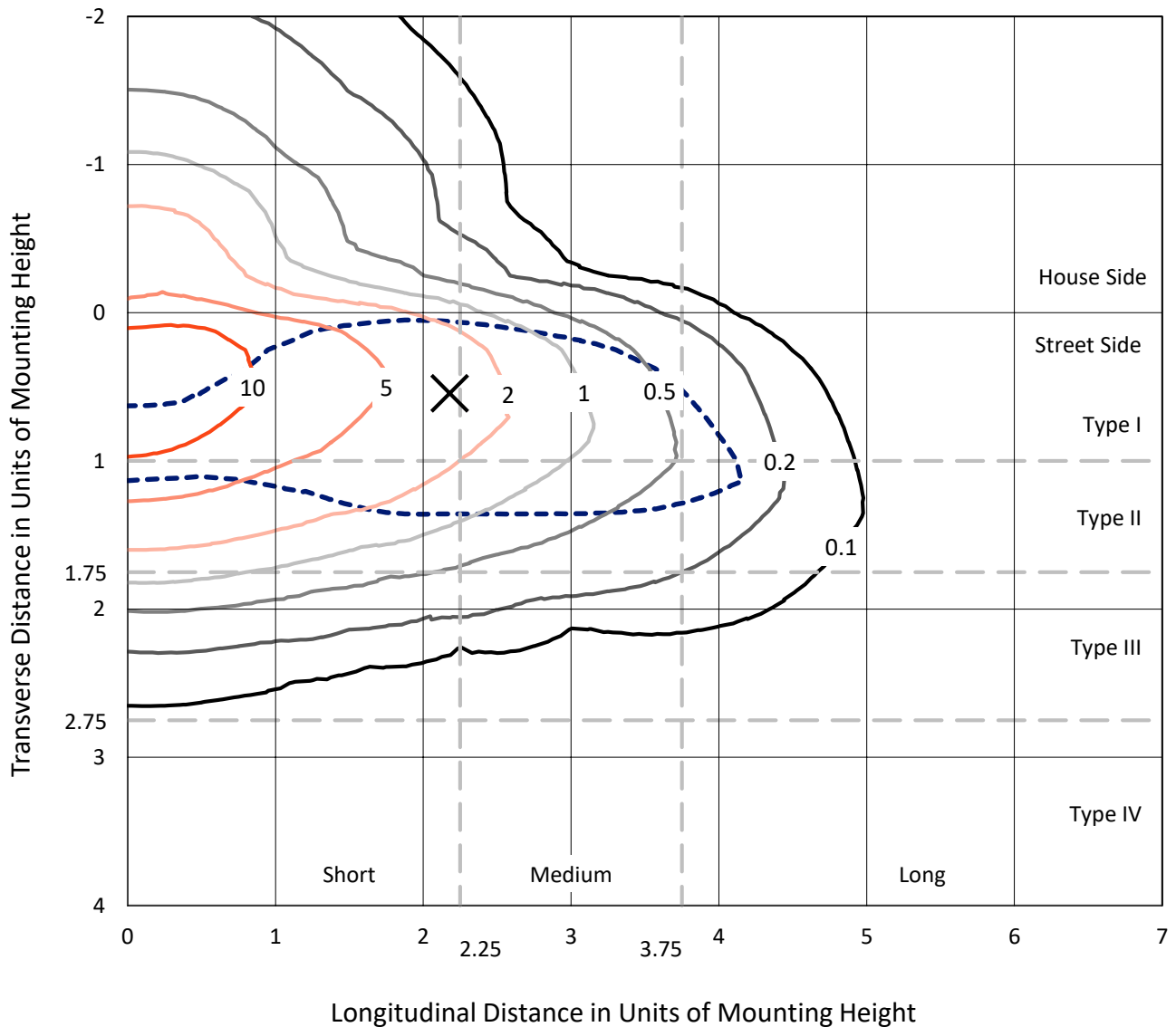
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

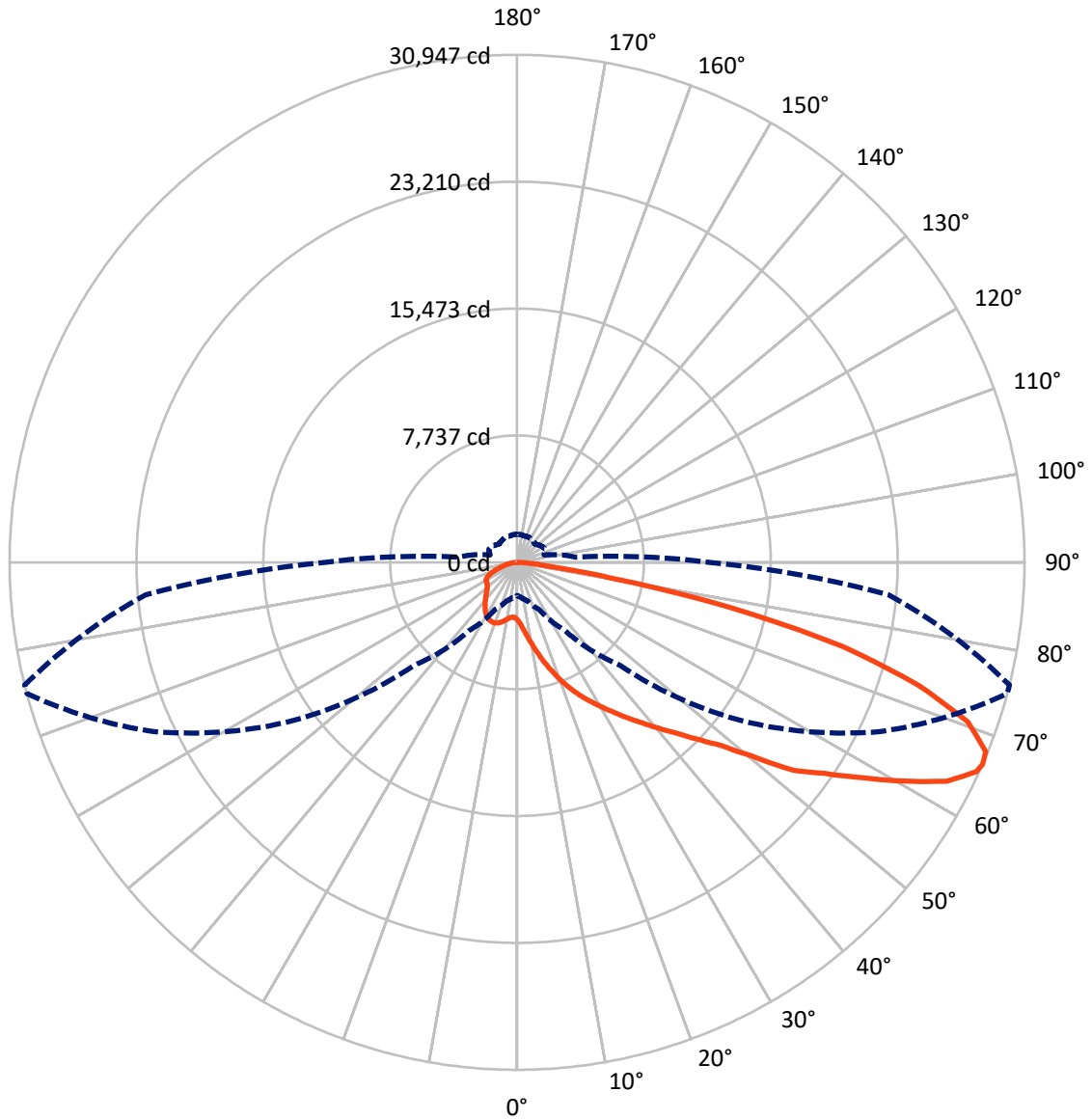
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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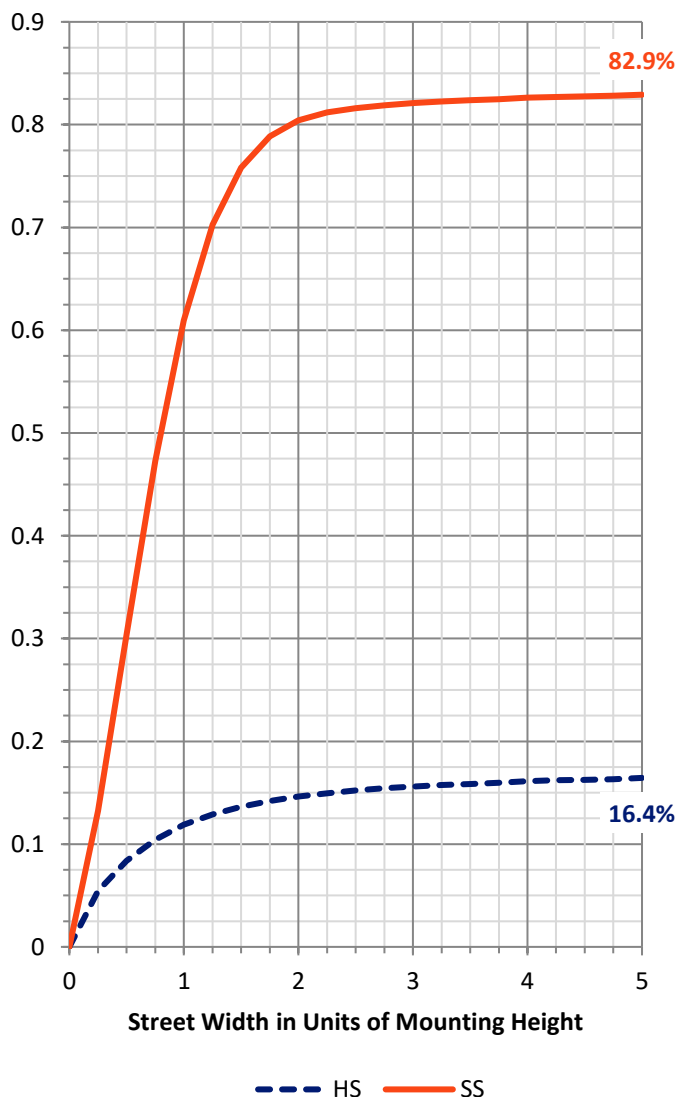
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6453.2	0.0	6453.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	31897.8	0.0	31897.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	38351.0	0.0	38351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.5	1.1
10°-20°	1672.5	4.4
20°-30°	3250.0	8.5
30°-40°	5304.7	13.8
40°-50°	7247.6	18.9
50°-60°	8442.0	22.0
60°-70°	7568.4	19.7
70°-80°	3824.7	10.0
80°-90°	617.6	1.6
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°	38351.0	100.0
0°-180°	38351.0	100.0

Coefficient of Utilization

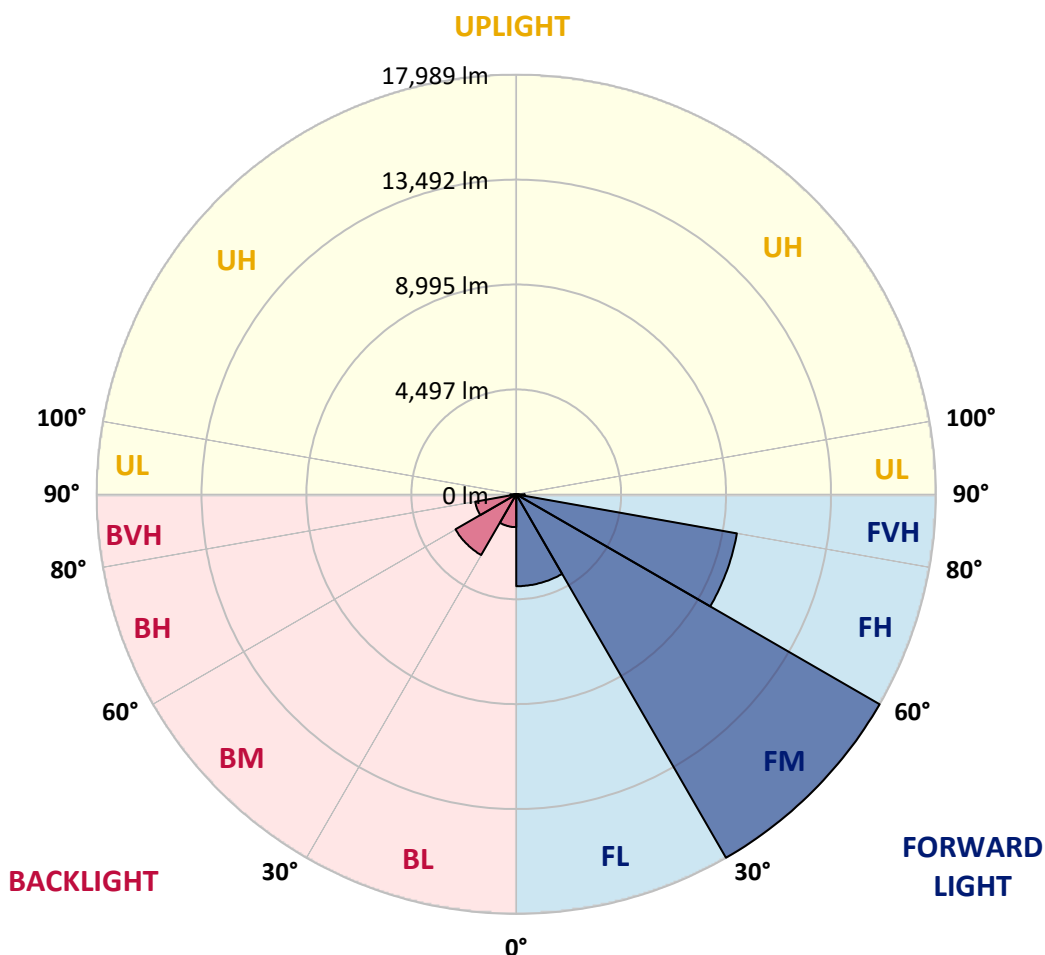


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3938.5	10.3			
FM (30°-60°)	17989.3	46.9			
FH (60°-80°)	9605.3	25.0			G4/12000
FVH (80°-90°)	364.8	1.0			G3/500
BL (0°-30°)	1407.5	3.7	B3/2500		
BM (30°-60°)	3005.0	7.8	B3/5000		
BH (60°-80°)	1787.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	252.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3
2.5°	4649.4	4579.0	4572.5	4469.7	4446.2	4249.6	4105.1	3954.1	3782.2	3748.4	3613.0
5°	5972.2	5965.6	5875.8	5707.9	5576.4	5240.4	4908.4	4556.9	4171.5	4109.0	3804.4
7.5°	7162.2	7151.7	7082.7	6901.8	6711.7	6299.0	5825.0	5286.0	4661.1	4568.6	4063.5
10°	8065.7	8061.8	8038.4	7905.6	7744.1	7348.3	6825.0	6089.3	5230.0	5103.7	4387.7
12.5°	8763.6	8771.4	8787.0	8740.2	8663.3	8326.1	7789.7	6940.8	5836.8	5711.8	4748.3
15°	9236.2	9259.6	9340.4	9406.8	9447.1	9240.1	8720.6	7811.8	6516.4	6366.7	5148.0
17.5°	9474.5	9500.5	9639.8	9840.3	10025.2	10004.4	9591.6	8642.5	7168.7	7024.2	5577.7
20°	9680.2	9699.7	9855.9	10096.8	10423.6	10568.1	10336.4	9441.9	7883.5	7711.6	6033.3
22.5°	10276.5	10301.2	10348.1	10484.8	10773.8	11039.4	10927.5	10198.4	8538.3	8378.2	6465.6
25°	11427.4	11457.4	11355.8	11239.9	11294.6	11479.5	11500.3	10888.4	9202.4	9021.4	6930.4
27.5°	12814.0	12857.0	12683.8	12385.7	12125.3	12053.7	12028.9	11453.5	9836.4	9626.8	7390.0
30°	14172.0	14246.2	14021.0	13634.3	13156.5	12820.5	12571.9	12006.8	10461.4	10260.9	7823.6
32.5°	15498.7	15468.8	15142.0	14764.4	14204.5	13784.0	13182.5	12600.5	11164.4	10934.0	8254.5
35°	16407.5	16417.9	16114.5	15666.7	15132.8	14810.0	14000.1	13241.1	11881.8	11669.6	8744.1
37.5°	17180.9	17132.7	16789.0	16371.0	15911.4	15773.4	14957.1	13946.8	12659.1	12427.3	9264.9
40°	17438.6	17382.7	17157.4	16856.7	16488.2	16476.5	16013.0	14746.2	13537.9	13308.8	9852.0
42.5°	17282.4	17210.8	17118.4	17036.3	16923.1	16975.1	17005.1	15683.6	14504.0	14247.5	10531.7
45°	16705.6	16597.6	16662.7	16841.0	17087.1	17381.4	17900.8	16721.3	15585.9	15371.1	11329.8
47.5°	15819.0	15721.3	15924.4	16305.9	16975.1	17719.9	18748.4	17867.0	16877.5	16664.0	12466.4
50°	14571.7	14600.3	14890.7	15584.6	16596.3	17876.1	19792.6	19383.8	18754.9	18555.7	14017.1
52.5°	12525.0	12530.2	13347.8	14487.1	15924.4	17795.4	20372.0	21322.4	21318.5	21077.7	15493.5
55°	10624.1	10740.0	11387.1	12901.3	14836.0	17472.5	20776.9	22265.1	23002.0	22719.5	16869.7
57.5°	8767.5	8835.2	9448.4	10969.1	13282.7	16611.9	21192.2	23396.5	24941.9	24763.6	18580.5
60°	6655.7	6759.9	7393.9	8798.7	11295.9	15084.7	21231.3	24577.4	27260.7	27081.1	20490.5
62.5°	4320.0	4499.6	5093.3	6409.6	8892.5	12888.2	20325.1	25349.4	29458.5	29394.7	22185.6
65°	2482.9	2618.3	3031.0	4046.5	6134.9	10130.7	18170.4	25052.6	30811.2	30774.8	22819.7
66°	2028.5	2113.1	2429.5	3162.5	5062.1	8896.4	16917.9	24426.3	30945.3	30946.6	22746.8
67.5°	1622.3	1660.0	1801.9	2264.1	3735.4	7051.5	14679.8	23044.9	30778.7	30824.2	22276.8
70°	1342.3	1361.9	1406.1	1518.1	2038.9	4252.2	10419.7	19455.4	29105.6	29140.8	20442.3
72.5°	1204.3	1216.0	1233.0	1248.6	1438.7	2376.1	6364.1	15563.8	25518.7	25564.3	17647.0
75°	1091.1	1097.6	1095.0	1096.3	1206.9	1514.2	3288.8	11620.1	20633.7	20542.6	13518.4
77.5°	958.3	964.8	951.7	954.3	1067.6	1164.0	1636.6	8134.7	13924.6	13281.4	7616.6
80°	809.8	815.0	809.8	818.9	929.6	878.8	951.7	4576.4	6157.0	5823.7	2708.1
82.5°	611.9	634.1	649.7	686.1	765.6	624.9	636.7	1782.4	1874.8	1785.0	830.7
85°	268.2	326.8	489.5	524.7	575.5	375.0	417.9	726.5	763.0	739.5	302.1
87.5°	70.3	76.8	242.2	304.7	319.0	169.3	217.4	330.7	348.9	330.7	100.3
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°	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3
2.5°	3541.4	3477.6	3363.0	3261.4	3184.6	3132.6	3080.5	3054.4	3038.8	3023.2	3025.8
5°	3654.6	3525.7	3329.1	3189.8	3111.7	3062.2	3036.2	3025.8	3019.3	3003.7	3003.7
7.5°	3825.2	3642.9	3372.1	3228.9	3167.7	3129.9	3114.3	3109.1	3101.3	3083.1	3085.7
10°	4040.0	3784.8	3462.0	3322.6	3266.7	3225.0	3202.9	3195.0	3180.7	3159.9	3162.5
12.5°	4292.6	3960.6	3580.4	3434.6	3366.9	3310.9	3274.5	3252.3	3227.6	3200.3	3201.6
15°	4568.6	4152.0	3708.0	3534.9	3442.4	3364.3	3305.7	3268.0	3228.9	3195.0	3193.7
17.5°	4848.6	4336.9	3805.7	3589.5	3464.6	3361.7	3282.3	3223.7	3175.5	3133.9	3129.9
20°	5150.6	4503.5	3860.4	3584.3	3422.9	3300.5	3195.0	3122.1	3068.8	3027.1	3020.6
22.5°	5457.9	4659.8	3869.5	3531.0	3330.5	3180.7	3070.1	2989.3	2934.7	2891.7	2876.1
25°	5739.1	4780.9	3831.7	3428.1	3201.6	3040.1	2932.0	2850.0	2805.8	2755.0	2739.4
27.5°	5995.6	4865.5	3756.2	3296.6	3057.0	2898.2	2796.6	2726.3	2678.2	2639.1	2626.1
30°	6226.0	4911.0	3632.5	3140.4	2908.6	2764.1	2678.2	2630.0	2588.3	2538.9	2529.7
32.5°	6444.8	4911.0	3473.7	2969.8	2761.5	2645.6	2594.8	2564.9	2518.0	2469.8	2456.8
35°	6663.5	4881.1	3286.2	2791.4	2626.1	2561.0	2558.4	2523.2	2451.6	2386.5	2369.6
37.5°	6894.0	4819.9	3075.3	2624.8	2515.4	2523.2	2545.4	2467.2	2365.7	2273.2	2248.5
40°	7154.3	4735.3	2856.5	2480.3	2423.0	2506.3	2510.2	2386.5	2188.6	2104.0	2081.9
42.5°	7460.3	4650.7	2653.4	2352.7	2350.1	2455.5	2443.8	2212.1	2093.6	2050.6	2038.9
45°	7862.6	4602.5	2460.7	2231.6	2292.8	2373.5	2330.5	2115.7	2066.2	2041.5	2031.1
47.5°	8496.7	4627.2	2283.7	2135.2	2235.5	2291.5	2119.6	2076.6	2041.5	2011.6	2001.1
50°	9290.9	4612.9	2140.4	2068.8	2170.4	2205.5	2024.6	2025.9	2007.6	1973.8	1958.2
52.5°	9888.5	4500.9	2048.0	2031.1	2113.1	2053.2	1964.7	1976.4	1967.3	1917.8	1900.9
55°	10465.3	4404.6	2001.1	2016.8	2071.4	1863.1	1894.4	1923.0	1913.9	1865.7	1857.9
57.5°	11182.7	4386.4	1972.5	2020.7	2036.3	1768.1	1826.7	1864.4	1857.9	1837.1	1833.2
60°	12061.5	4391.6	1946.5	2027.2	1997.2	1697.8	1762.9	1811.0	1815.0	1811.0	1808.4
62.5°	12544.5	4249.6	1881.4	2008.9	1928.2	1636.6	1696.5	1766.8	1768.1	1775.9	1774.6
65°	12134.4	3825.2	1760.3	1945.1	1812.3	1585.8	1639.2	1716.0	1696.5	1731.6	1731.6
66°	11736.0	3580.4	1700.4	1903.5	1762.9	1566.3	1621.0	1690.0	1665.2	1713.4	1713.4
67.5°	10922.3	3167.7	1592.3	1815.0	1692.6	1538.9	1600.1	1647.0	1613.1	1684.8	1679.5
70°	9435.4	2450.3	1374.9	1614.4	1576.7	1498.6	1571.5	1561.1	1511.6	1621.0	1600.1
72.5°	7955.1	1861.8	1104.1	1351.4	1400.9	1447.8	1531.1	1451.7	1389.2	1466.0	1420.5
75°	6172.7	1399.6	872.3	1050.7	1183.5	1368.4	1482.9	1325.4	1235.6	1227.8	1203.0
77.5°	3337.0	960.9	691.3	802.0	940.0	1269.4	1450.4	1190.0	1054.6	1023.4	1003.8
80°	1321.5	624.9	502.6	608.0	657.5	1126.2	1372.3	1032.5	869.7	838.5	808.5
82.5°	545.5	369.8	324.2	407.5	428.3	963.5	1231.7	846.3	671.8	929.6	986.9
85°	234.4	203.1	192.7	210.9	242.2	675.7	980.4	645.8	725.2	647.1	514.3
87.5°	70.3	85.9	82.0	80.7	88.5	161.4	522.1	359.3	532.5	201.8	151.0
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)