

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: P320931

Luminaire Tested: **GAN-SA7C-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46741 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

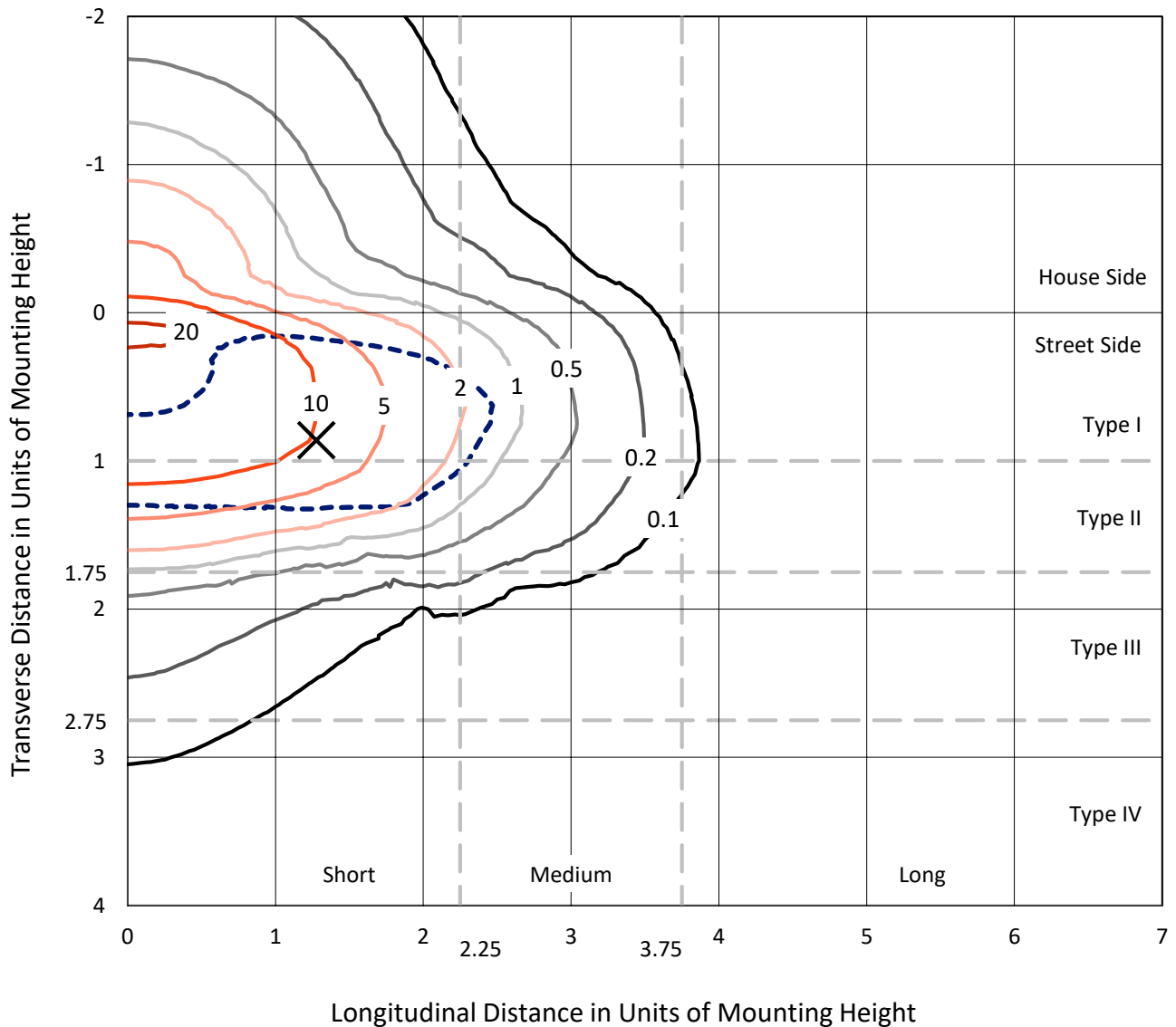
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

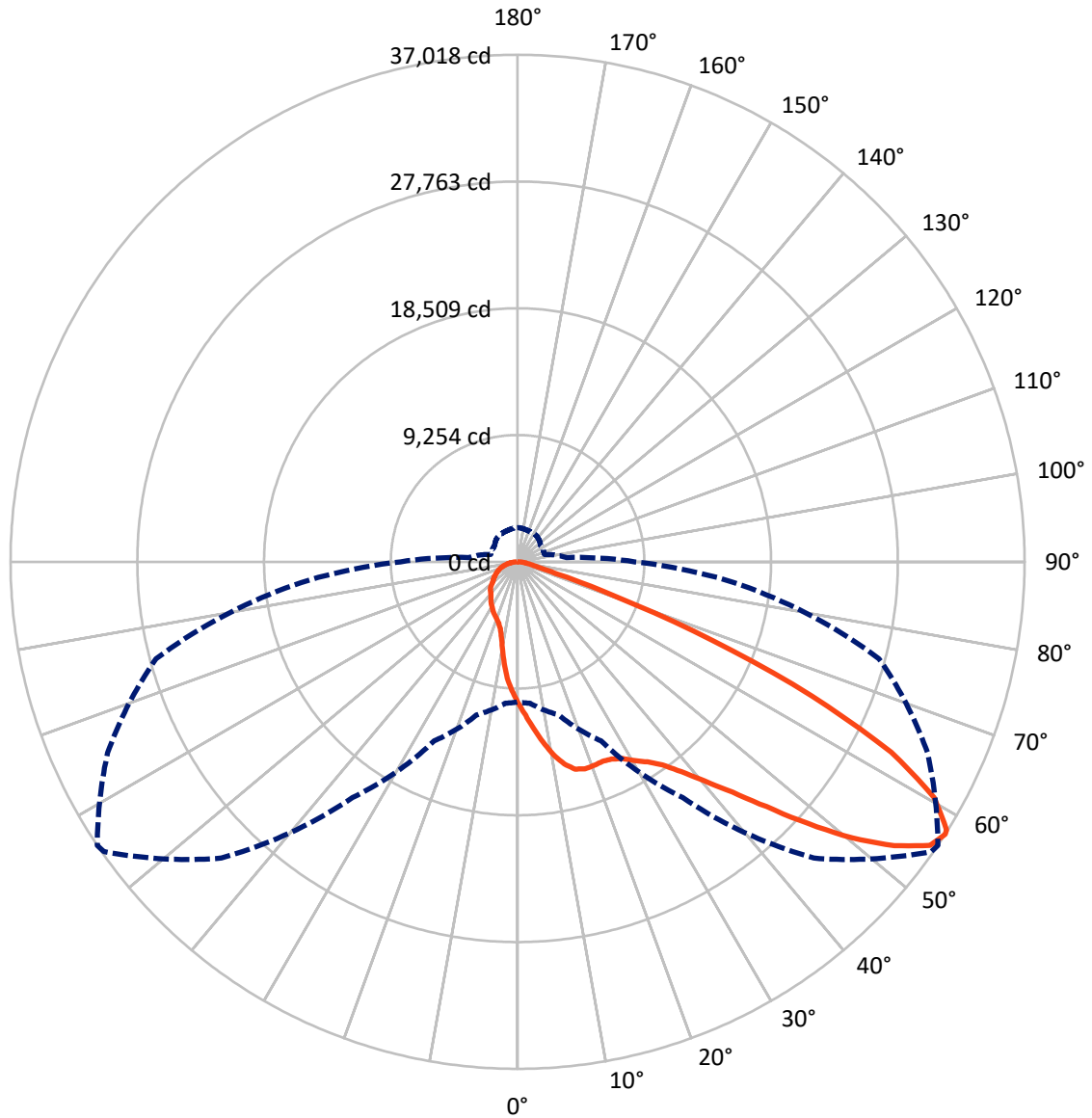
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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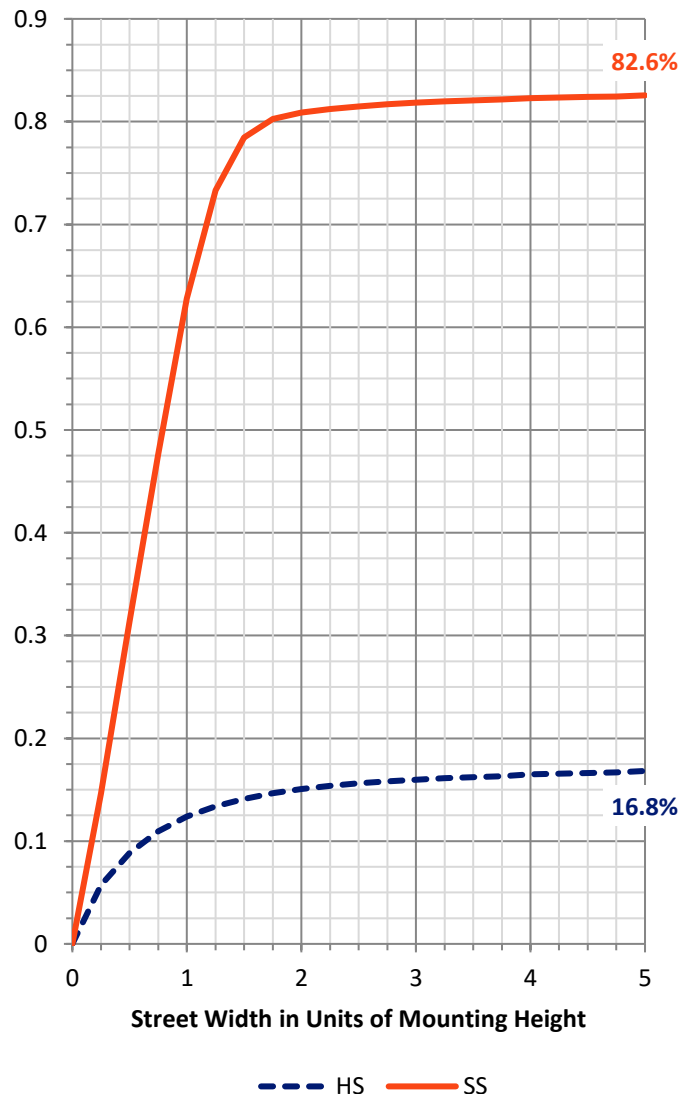
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8057.1	0.0	8057.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	38683.8	0.0	38683.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	46741.0	0.0	46741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	990.3	2.1
10°-20°	2799.9	6.0
20°-30°	4560.5	9.8
30°-40°	6817.4	14.6
40°-50°	10340.5	22.1
50°-60°	11589.9	24.8
60°-70°	6845.5	14.6
70°-80°	2242.8	4.8
80°-90°	554.1	1.2
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°	46741.0	100.0
0°-180°	46741.0	100.0

Coefficient of Utilization



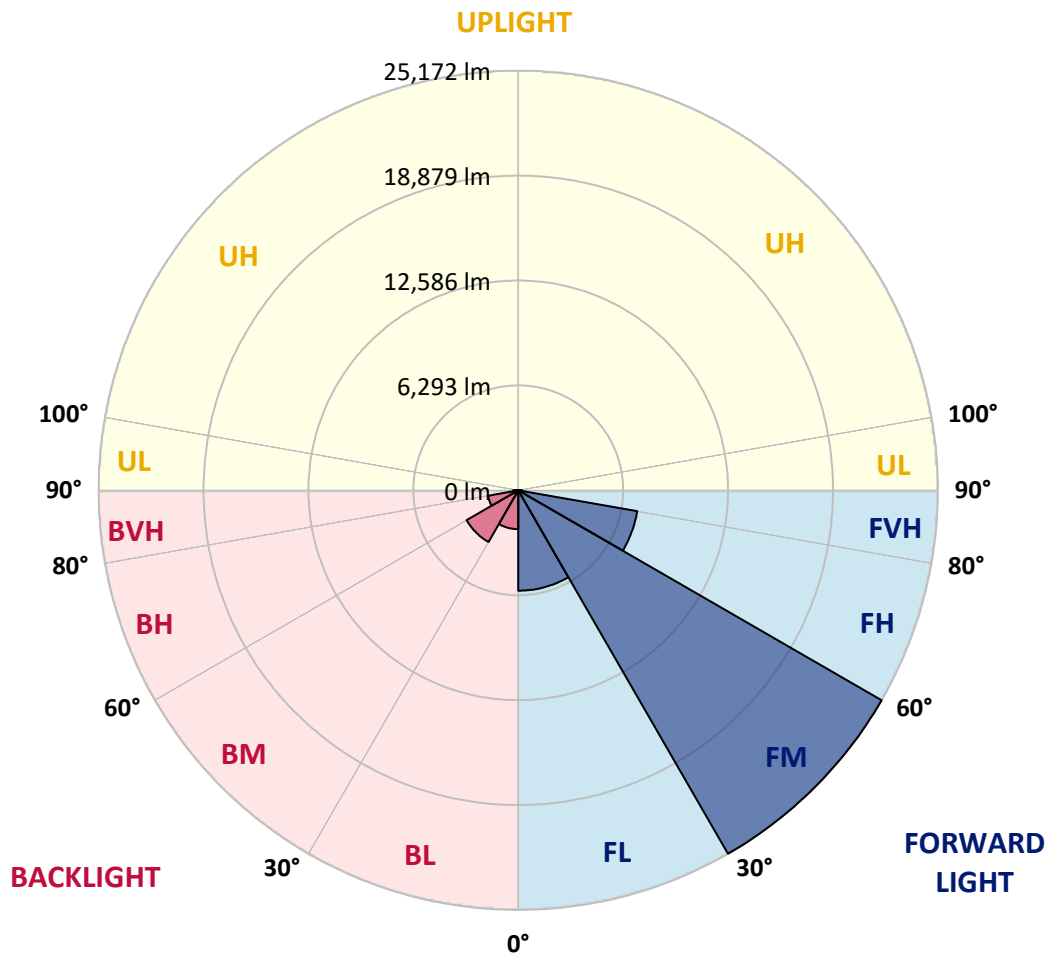
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6020.9	12.9			
FM (30°-60°)	25171.6	53.9			
FH (60°-80°)	7247.3	15.5			G3/7500
FVH (80°-90°)	244.0	0.5			G3/500
BL (0°-30°)	2329.8	5.0	B3/2500		
BM (30°-60°)	3576.3	7.7	B3/5000		
BH (60°-80°)	1841.0	3.9	B3/2500		G3/2500
BVH (80°-90°)	310.1	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10367.2	10367.2	10367.2	10367.2	10367.2	10367.2	10367.2	10367.2	10367.2	10367.2	10367.2
2.5°	11904.4	12013.7	11965.5	11798.4	11669.9	11488.4	11286.0	11225.0	11011.3	10772.0	10484.5
5°	13788.7	13734.0	13655.3	13395.1	13120.4	12800.8	12293.2	12212.9	11737.4	11196.1	10624.2
7.5°	14861.7	14856.9	14810.3	14657.7	14407.1	13989.5	13377.4	13282.7	12564.6	11694.0	10807.3
10°	14705.9	14694.6	14771.7	14930.8	15006.3	14919.5	14403.9	14309.1	13427.2	12245.0	11019.4
12.5°	13820.8	13827.2	13950.9	14285.0	14739.6	15285.8	15202.2	15155.6	14322.0	12868.2	11276.4
15°	13131.7	13146.1	13244.1	13534.9	14071.4	15062.5	15687.3	15703.4	15187.8	13555.7	11576.8
17.5°	12829.7	12860.2	12905.2	13109.2	13600.7	14617.5	15803.0	15889.7	15945.9	14269.0	11865.9
20°	12926.1	12955.0	12967.8	13097.9	13501.1	14347.7	15722.7	15878.5	16527.4	14940.4	12155.0
22.5°	13358.2	13375.8	13383.9	13417.6	13730.8	14424.8	15669.7	15833.5	16948.3	15542.8	12373.5
25°	14074.6	14061.7	14010.3	13967.0	14177.4	14730.0	15791.7	15947.6	17290.4	16088.9	12516.5
27.5°	14932.4	14916.3	14816.7	14697.8	14818.3	15205.4	16143.5	16267.2	17597.2	16599.7	12588.7
30°	15962.0	15920.2	15732.3	15591.0	15637.5	15918.6	16723.4	16835.9	18071.1	17179.6	12659.4
32.5°	17152.3	17107.3	16835.9	16601.3	16601.3	16835.9	17321.0	17414.1	18472.7	17835.0	12773.5
35°	18643.0	18586.7	18233.4	17839.8	17729.0	17847.8	18135.4	18201.2	19195.5	18660.6	12980.7
37.5°	20400.3	20324.8	19867.0	19340.1	19097.6	19091.1	19298.3	19433.3	20350.5	19744.9	13332.5
40°	22162.4	22109.4	21709.4	21295.0	20819.5	20666.9	20986.6	21028.3	21860.4	21091.0	13782.2
42.5°	23524.6	23514.9	23441.0	23495.7	23008.9	22700.5	22951.1	22984.8	23704.5	22547.9	14260.9
45°	24244.2	24260.3	24618.5	25412.0	25591.9	25367.0	25490.7	25500.3	25812.0	24017.7	14699.4
47.5°	23667.5	23751.1	24657.0	26432.0	27905.0	28651.9	28446.3	28565.2	27855.2	25280.3	15043.2
50°	21420.3	21523.1	23065.2	25977.4	28984.5	31830.9	31723.2	31695.9	29503.3	26205.5	15229.5
52.5°	18636.5	18716.9	19989.1	23614.5	28192.5	33588.2	34576.1	34434.7	30968.3	26897.8	15264.9
55°	14397.5	14522.7	15741.9	18898.4	24989.5	32916.7	36673.9	36547.0	32303.1	27260.9	15223.1
57°	10235.5	10367.2	11578.4	14423.2	21021.9	30592.4	36882.7	37017.7	33024.4	27321.9	15269.7
57.5°	9133.5	9268.5	10468.4	13231.3	19785.1	29752.3	36702.8	36927.7	33154.5	27312.3	15295.4
60°	4598.9	4650.3	5414.9	7385.9	12506.8	24053.1	34356.0	34935.9	33271.7	26840.0	15406.2
62.5°	2859.3	2822.3	2798.2	3402.2	6084.7	15950.8	29512.9	30629.3	31027.7	25696.3	15138.0
65°	2513.9	2444.8	2179.8	2131.6	2687.4	7747.3	22225.1	23614.5	26232.8	23894.0	14498.7
67.5°	2361.3	2293.8	1995.1	1815.1	1816.7	3071.3	13798.3	15362.9	20435.6	20846.8	12990.3
70°	2203.9	2142.8	1863.3	1651.3	1546.9	1701.1	6348.2	7535.3	13321.2	16386.1	10857.1
72.5°	2001.5	1959.7	1694.7	1476.2	1365.4	1273.8	2430.4	2870.5	7711.9	11004.9	7540.1
75°	1789.4	1750.9	1524.4	1315.6	1180.6	1002.3	1368.6	1474.6	3917.8	5630.2	3712.2
77.5°	1556.5	1534.0	1355.7	1163.0	1055.4	830.5	968.6	1020.0	1680.2	2414.3	1861.7
80°	1238.5	1281.8	1185.5	1036.1	936.5	665.0	685.9	719.6	978.2	1179.0	1057.0
82.5°	806.4	881.9	928.5	841.7	771.0	523.7	493.1	507.6	637.7	719.6	459.4
85°	335.7	377.5	610.4	551.0	512.4	382.3	330.9	337.3	395.2	409.6	187.9
87.5°	149.4	159.0	268.3	252.2	216.9	131.7	141.4	154.2	210.4	199.2	72.3
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°	10367.2	10367.2	10367.2	10367.2	10367.2	10367.2	10367.2	10367.2	10367.2	10367.2	10367.2
2.5°	10376.8	10241.9	10010.6	9755.2	9546.4	9379.3	9210.6	9095.0	8960.1	8887.8	8850.8
5°	10384.9	10119.8	9633.1	9133.5	8687.0	8279.0	7890.2	7591.5	7312.0	7161.0	7119.2
7.5°	10418.6	10020.2	9233.1	8410.7	7617.2	6892.7	6333.7	5983.5	5731.4	5618.9	5586.8
10°	10445.9	9903.0	8738.4	7520.8	6441.3	5707.3	5273.6	5077.6	4990.8	4976.4	4961.9
12.5°	10510.2	9782.5	8217.9	6592.3	5527.4	5019.8	4868.8	4855.9	4880.0	4915.3	4915.3
15°	10611.4	9663.6	7623.6	5795.6	4945.9	4767.6	4798.1	4868.8	4934.6	4989.2	4997.3
17.5°	10685.2	9517.5	6984.3	5157.9	4635.8	4684.0	4793.3	4892.9	4960.3	5013.3	5018.1
20°	10738.3	9291.0	6301.6	4671.2	4457.5	4606.9	4743.5	4831.8	4878.4	4931.4	4939.4
22.5°	10710.9	8987.4	5696.0	4322.6	4313.0	4494.5	4624.6	4730.6	4695.3	4643.9	4677.6
25°	10579.2	8569.7	5072.8	4062.4	4160.4	4343.5	4504.1	4433.4	4314.6	4292.1	4304.9
27.5°	10344.7	8036.4	4496.1	3821.4	3983.7	4203.7	4194.1	4123.4	4081.7	4052.7	4070.4
30°	10092.5	7458.1	3991.7	3611.0	3787.7	3969.2	3932.3	3930.7	3888.9	3842.3	3864.8
32.5°	9843.5	6876.7	3591.7	3437.5	3639.9	3664.0	3744.3	3768.4	3686.5	3588.5	3582.1
35°	9626.7	6327.3	3288.1	3280.1	3461.6	3464.8	3582.1	3548.4	3344.4	3243.2	3243.2
37.5°	9464.4	5779.5	3056.8	3138.8	3227.1	3310.6	3370.1	3230.3	3196.6	3140.4	3138.8
40°	9393.8	5297.6	2912.3	3031.1	3061.6	3167.7	3015.1	3069.7	3085.7	3056.8	3056.8
42.5°	9319.9	4878.4	2787.0	2949.2	2944.4	2929.9	2852.8	2923.5	2987.8	2989.4	2984.5
45°	9246.0	4517.0	2676.1	2774.1	2841.6	2685.8	2700.2	2775.7	2865.7	2897.8	2897.8
47.5°	9164.1	4231.0	2574.9	2589.4	2693.8	2589.4	2578.1	2636.0	2742.0	2793.4	2804.6
50°	8984.2	3974.0	2459.3	2427.2	2456.1	2491.4	2501.0	2528.3	2645.6	2727.5	2746.8
52.5°	8735.2	3744.3	2311.5	2277.8	2277.8	2411.1	2456.1	2464.1	2563.7	2661.7	2680.9
55°	8528.0	3598.2	2158.9	2152.5	2146.0	2326.0	2403.1	2415.9	2485.0	2562.1	2571.7
57°	8542.4	3586.9	2041.6	2048.1	2046.5	2239.2	2353.3	2380.6	2415.9	2481.8	2493.0
57.5°	8550.4	3594.9	2015.9	2019.1	2017.5	2215.1	2338.8	2369.3	2396.6	2465.7	2476.9
60°	8670.9	3615.8	1911.5	1876.2	1884.2	2086.6	2256.9	2295.4	2313.1	2404.7	2419.1
62.5°	8492.6	3522.7	1828.0	1742.9	1742.9	1951.7	2142.8	2203.9	2231.2	2354.9	2379.0
65°	7975.4	3260.8	1730.0	1591.9	1607.9	1816.7	2006.3	2105.9	2147.7	2301.9	2327.6
67.5°	7177.0	2957.2	1625.6	1456.9	1473.0	1675.4	1864.9	1972.6	2038.4	2244.0	2264.9
70°	6137.8	2586.2	1484.2	1314.0	1333.2	1521.2	1697.9	1820.0	1917.9	2189.4	2195.8
72.5°	4525.0	2120.3	1286.7	1156.6	1177.4	1341.3	1529.2	1670.6	1802.3	2052.9	2049.7
75°	2690.6	1657.7	1068.2	997.5	1012.0	1164.6	1376.6	1548.5	1746.1	1999.9	2030.4
77.5°	1632.0	1248.1	870.6	835.3	853.0	1008.8	1267.4	1450.5	1722.0	1885.8	1876.2
80°	986.3	891.5	695.5	673.0	690.7	862.6	1172.6	1376.6	1505.1	1611.1	1611.1
82.5°	515.6	544.5	510.8	493.1	517.2	700.4	1066.6	1201.5	1330.0	1142.1	1066.6
85°	210.4	284.3	310.0	308.4	322.9	485.1	920.4	1028.0	857.8	814.4	833.7
87.5°	70.7	120.5	151.0	130.1	136.5	305.2	637.7	496.4	589.5	411.2	390.3
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)