

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: P317521

Luminaire Tested: **GAN-SA7B-760-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317521
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-760-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 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: 42111 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

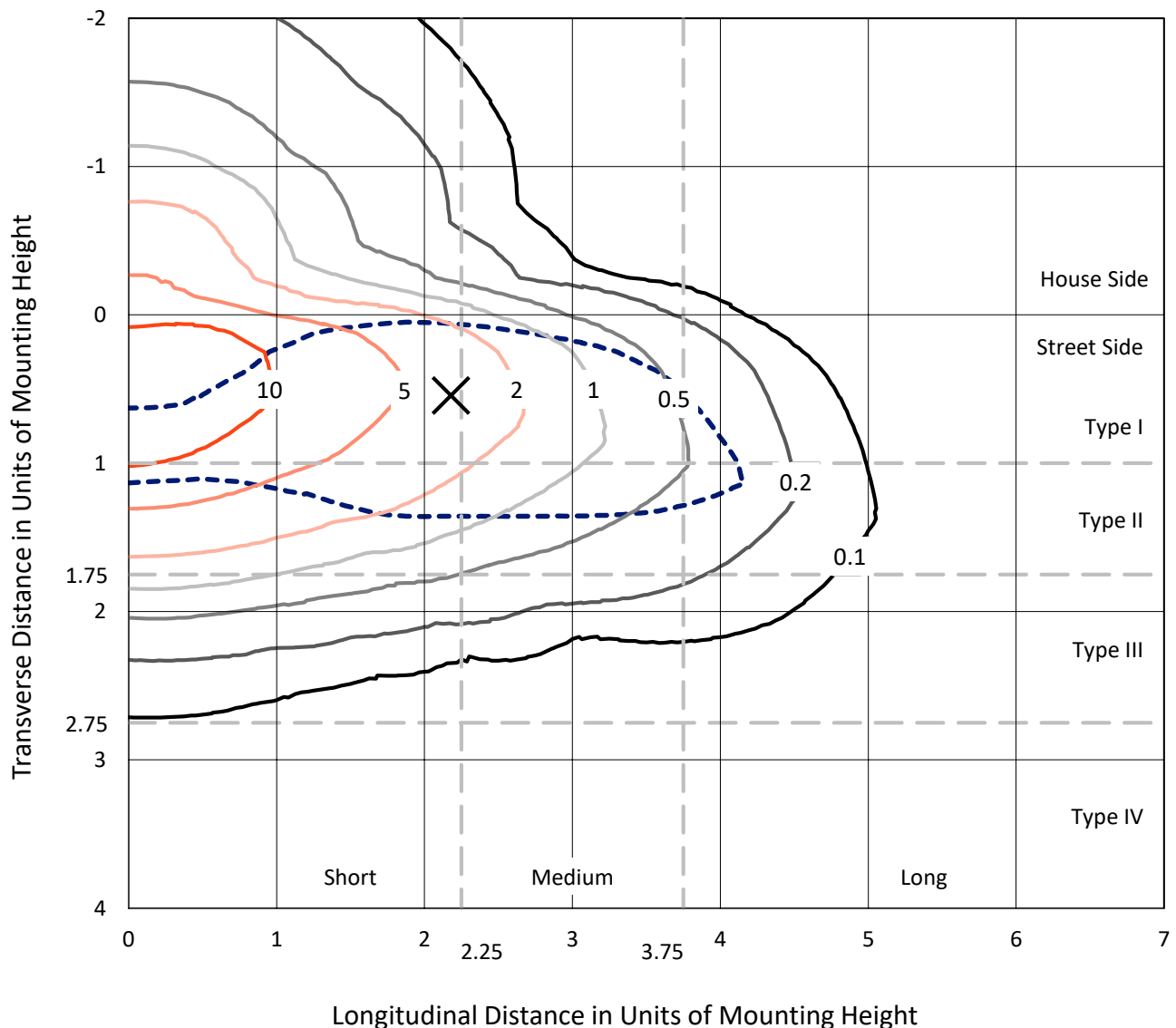
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

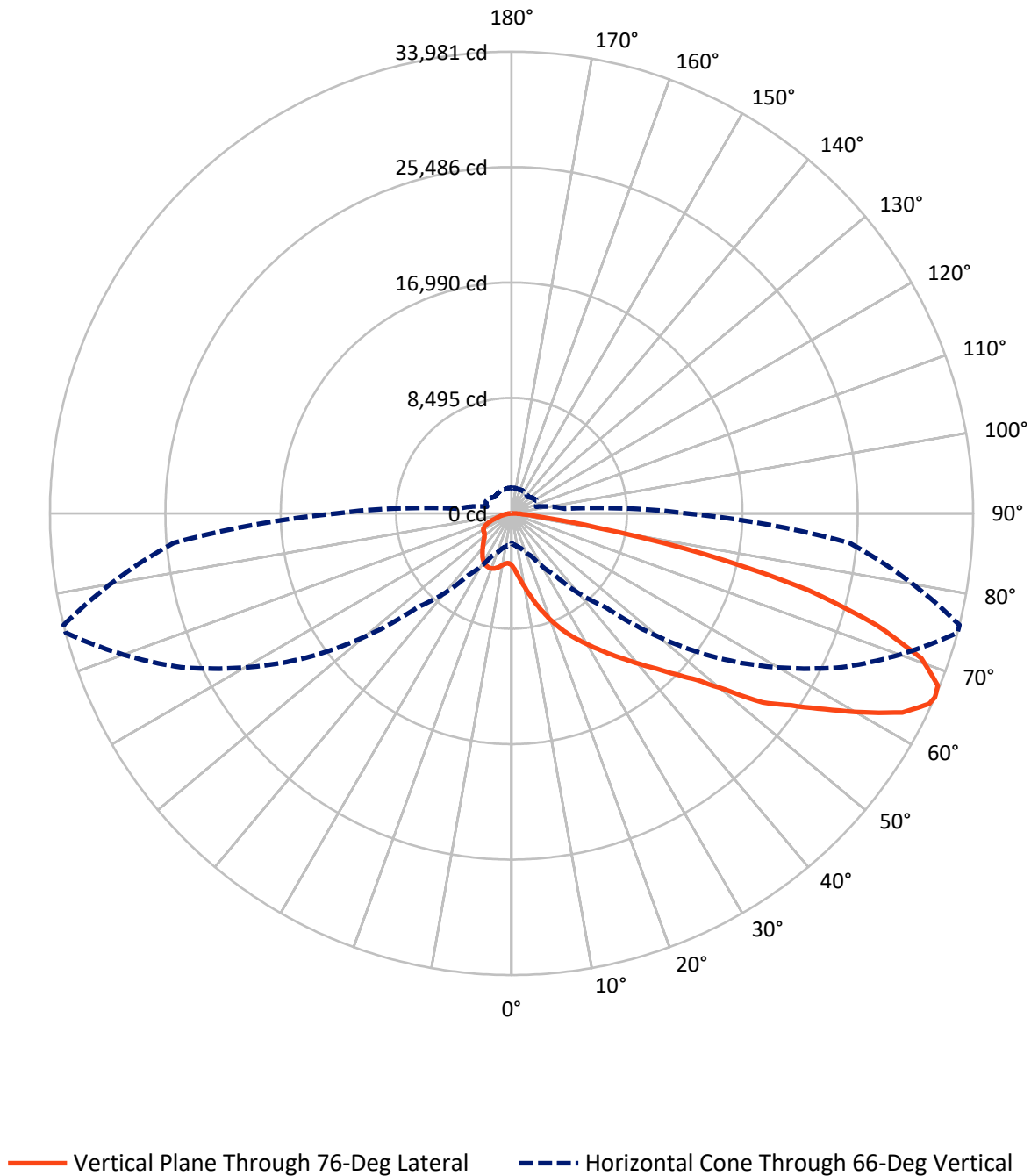
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7085.8	0.0	7085.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	35025.2	0.0	35025.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	42111.0	0.0	42111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.0	1.1
10°-20°	1836.4	4.4
20°-30°	3568.6	8.5
30°-40°	5824.8	13.8
40°-50°	7958.1	18.9
50°-60°	9269.6	22.0
60°-70°	8310.4	19.7
70°-80°	4199.7	10.0
80°-90°	678.2	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°	42111.0	100.0
0°-180°	42111.0	100.0

Coefficient of Utilization



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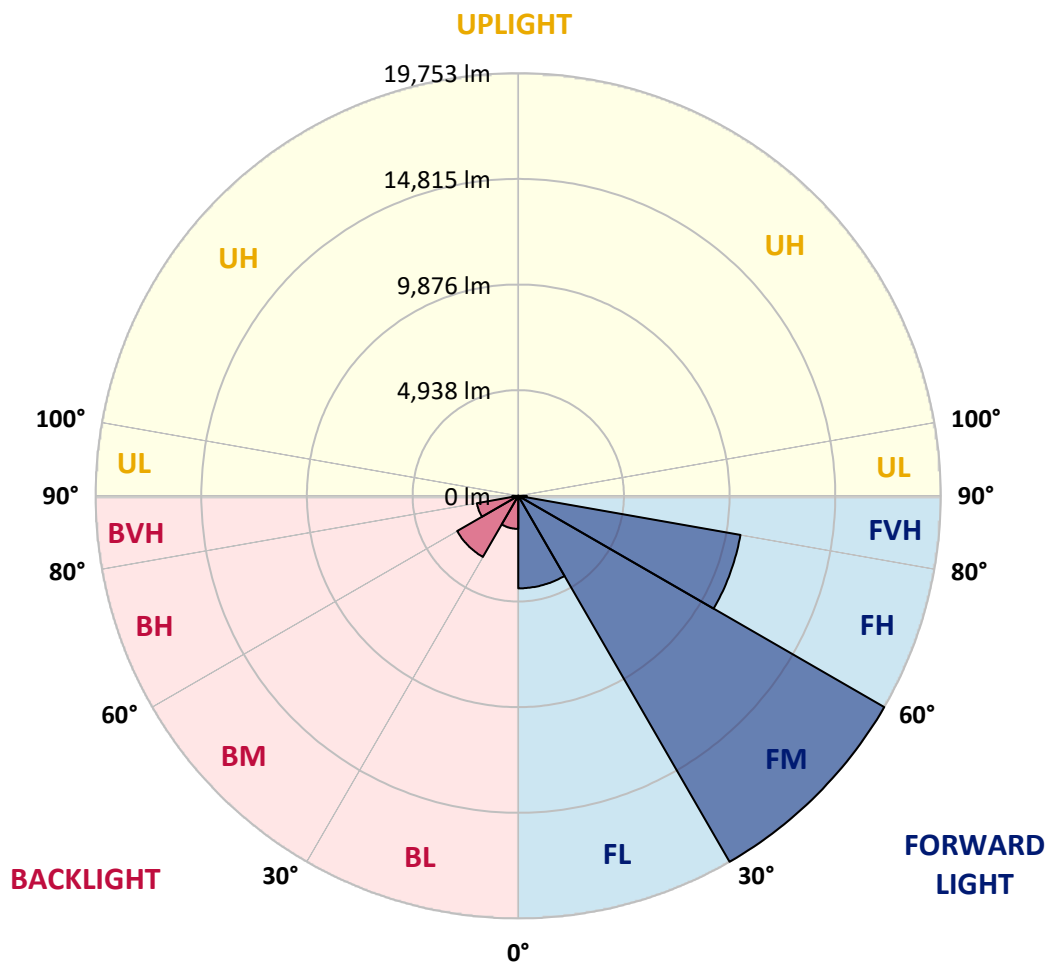
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4324.7	10.3			
FM	(30°-60°)	19753.0	46.9			
FH	(60°-80°)	10547.0	25.0			G4/12000
FVH	(80°-90°)	400.5	1.0			G3/500
BL	(0°-30°)	1545.5	3.7	B3/2500		
BM	(30°-60°)	3299.6	7.8	B3/5000		
BH	(60°-80°)	1963.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	277.7	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°	3845.7	3845.7	3845.7	3845.7	3845.7	3845.7	3845.7	3845.7	3845.7	3845.7	3845.7
2.5°	5105.2	5028.0	5020.8	4907.9	4882.2	4666.3	4507.6	4341.8	4153.1	4115.9	3967.2
5°	6557.7	6550.5	6451.9	6267.5	6123.1	5754.2	5389.7	5003.7	4580.5	4511.9	4177.4
7.5°	7864.4	7852.9	7777.1	7578.4	7369.7	6916.5	6396.1	5804.3	5118.0	5016.5	4461.9
10°	8856.5	8852.2	8826.5	8680.7	8503.4	8068.8	7494.1	6686.3	5742.8	5604.1	4817.8
12.5°	9622.8	9631.4	9648.5	9597.1	9512.7	9142.4	8553.4	7621.3	6409.0	6271.8	5213.8
15°	10141.7	10167.5	10256.1	10329.0	10373.3	10146.0	9575.6	8577.7	7155.3	6990.9	5652.7
17.5°	10403.4	10432.0	10584.9	10805.1	11008.1	10985.2	10532.0	9489.8	7871.5	7712.8	6124.5
20°	10629.2	10650.7	10822.2	11086.7	11445.6	11604.2	11349.8	10367.6	8656.4	8467.7	6624.9
22.5°	11284.0	11311.2	11362.6	11512.7	11830.1	12121.8	11998.8	11198.2	9375.5	9199.6	7099.5
25°	12547.8	12580.7	12469.2	12341.9	12402.0	12605.0	12627.9	11955.9	10104.6	9905.9	7609.9
27.5°	14070.3	14117.5	13927.4	13600.0	13314.1	13235.4	13208.3	12576.4	10800.8	10570.6	8114.5
30°	15561.4	15642.9	15395.6	14971.0	14446.3	14077.5	13804.4	13184.0	11487.0	11266.9	8590.6
32.5°	17018.2	16985.3	16626.5	16211.9	15597.2	15135.4	14474.9	13835.9	12259.0	12006.0	9063.8
35°	18016.1	18027.5	17694.4	17202.6	16616.5	16262.0	15372.7	14539.3	13046.7	12813.7	9601.3
37.5°	18865.3	18812.4	18435.0	17976.1	17471.4	17319.9	16423.5	15314.1	13900.2	13645.7	10173.2
40°	19148.4	19086.9	18839.6	18509.3	18104.7	18091.9	17582.9	16191.9	14865.2	14613.6	10818.0
42.5°	18976.8	18898.2	18796.7	18706.6	18582.2	18639.4	18672.3	17221.2	15926.0	15644.4	11564.2
45°	18343.5	18224.8	18296.3	18492.2	18762.4	19085.5	19655.9	18360.6	17114.0	16878.1	12440.6
47.5°	17369.9	17262.7	17485.7	17904.6	18639.4	19457.2	20586.6	19618.7	18532.2	18297.7	13688.6
50°	16000.3	16031.8	16350.6	17112.6	18223.4	19628.7	21733.1	21284.2	20593.7	20375.0	15391.3
52.5°	13753.0	13758.7	14656.5	15907.4	17485.7	19540.1	22369.3	23412.9	23408.6	23144.2	17012.5
55°	11665.7	11793.0	12503.5	14166.1	16290.5	19185.5	22813.9	24448.0	25257.1	24946.9	18523.6
57.5°	9627.1	9701.4	10374.8	12044.6	14585.0	18240.6	23270.0	25690.3	27387.3	27191.4	20402.1
60°	7308.2	7422.6	8118.8	9661.4	12403.4	16563.6	23312.9	26987.0	29933.4	29736.1	22499.4
62.5°	4743.5	4940.8	5592.7	7038.0	9764.3	14151.8	22317.8	27834.7	32346.6	32276.6	24360.8
65°	2726.3	2875.0	3328.2	4443.3	6736.4	11123.9	19951.8	27508.8	33832.0	33792.0	25057.0
66°	2227.4	2320.3	2667.7	3472.6	5558.4	9768.6	18576.5	26821.1	33979.3	33980.7	24976.9
67.5°	1781.3	1822.8	1978.6	2486.1	4101.6	7742.8	16119.0	25304.3	33796.3	33846.3	24460.8
70°	1473.9	1495.4	1544.0	1666.9	2238.8	4669.1	11441.3	21362.8	31959.2	31997.8	22446.5
72.5°	1322.4	1335.3	1353.9	1371.0	1579.7	2609.1	6988.0	17089.7	28020.6	28070.6	19377.1
75°	1198.0	1205.2	1202.3	1203.7	1325.3	1662.7	3611.2	12759.4	22656.7	22556.6	14843.8
77.5°	1052.2	1059.4	1045.1	1047.9	1172.3	1278.1	1797.0	8932.3	15289.8	14583.6	8363.3
80°	889.2	894.9	889.2	899.2	1020.8	965.0	1045.1	5025.1	6760.7	6394.7	2973.6
82.5°	671.9	696.2	713.4	753.4	840.6	686.2	699.1	1957.2	2058.7	1960.0	912.1
85°	294.5	358.8	537.5	576.1	631.9	411.7	458.9	797.7	837.8	812.0	331.7
87.5°	77.2	84.3	265.9	334.5	350.3	185.9	238.7	363.1	383.1	363.1	110.1
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°	3845.7	3845.7	3845.7	3845.7	3845.7	3845.7	3845.7	3845.7	3845.7	3845.7	3845.7
2.5°	3888.6	3818.5	3692.7	3581.2	3496.9	3439.7	3382.5	3353.9	3336.7	3319.6	3322.4
5°	4012.9	3871.4	3655.5	3502.6	3416.8	3362.5	3333.9	3322.4	3315.3	3298.1	3298.1
7.5°	4200.2	4000.1	3702.7	3545.5	3478.3	3436.8	3419.7	3413.9	3405.4	3385.3	3388.2
10°	4436.1	4155.9	3801.4	3648.4	3586.9	3541.2	3516.9	3508.3	3492.6	3469.7	3472.6
12.5°	4713.5	4348.9	3931.5	3771.3	3697.0	3635.5	3595.5	3571.2	3544.0	3514.0	3515.4
15°	5016.5	4559.1	4071.6	3881.4	3779.9	3694.1	3629.8	3588.4	3545.5	3508.3	3506.9
17.5°	5323.9	4762.1	4178.8	3941.5	3804.2	3691.3	3604.1	3539.7	3486.8	3441.1	3436.8
20°	5655.6	4945.1	4238.8	3935.8	3758.5	3624.1	3508.3	3428.2	3369.6	3323.9	3316.7
22.5°	5993.0	5116.6	4248.8	3877.1	3657.0	3492.6	3371.0	3282.4	3222.4	3175.2	3158.0
25°	6301.8	5249.6	4207.4	3764.2	3515.4	3338.2	3219.5	3129.4	3080.8	3025.1	3007.9
27.5°	6583.4	5342.5	4124.5	3619.8	3356.8	3182.3	3070.8	2993.6	2940.7	2897.8	2883.5
30°	6836.5	5392.5	3988.6	3448.2	3193.8	3035.1	2940.7	2887.8	2842.1	2787.8	2777.8
32.5°	7076.6	5392.5	3814.2	3261.0	3032.2	2905.0	2849.2	2816.4	2764.9	2712.0	2697.7
35°	7316.8	5359.7	3608.4	3065.1	2883.5	2812.1	2809.2	2770.6	2692.0	2620.5	2601.9
37.5°	7569.9	5292.5	3376.8	2882.1	2762.0	2770.6	2794.9	2709.1	2597.6	2496.1	2469.0
40°	7855.8	5199.5	3136.6	2723.4	2660.5	2752.0	2756.3	2620.5	2403.2	2310.3	2286.0
42.5°	8191.7	5106.6	2913.6	2583.3	2580.5	2696.3	2683.4	2428.9	2298.8	2251.7	2238.8
45°	8633.5	5053.7	2702.0	2450.4	2517.6	2606.2	2559.0	2323.1	2268.8	2241.6	2230.2
47.5°	9329.7	5080.9	2507.6	2344.6	2454.7	2516.1	2327.4	2280.2	2241.6	2208.8	2197.3
50°	10201.8	5065.2	2350.3	2271.7	2383.2	2421.8	2223.1	2224.5	2204.5	2167.3	2150.2
52.5°	10858.0	4942.2	2248.8	2230.2	2320.3	2254.5	2157.3	2170.2	2160.2	2105.8	2087.2
55°	11491.3	4836.4	2197.3	2214.5	2274.5	2045.8	2080.1	2111.6	2101.5	2048.6	2040.1
57.5°	12279.0	4816.4	2165.9	2218.8	2235.9	1941.4	2005.8	2047.2	2040.1	2017.2	2012.9
60°	13244.0	4822.1	2137.3	2225.9	2193.0	1864.2	1935.7	1988.6	1992.9	1988.6	1985.7
62.5°	13774.4	4666.3	2065.8	2205.9	2117.3	1797.0	1862.8	1940.0	1941.4	1950.0	1948.6
65°	13324.1	4200.2	1932.8	2135.9	1990.0	1741.3	1799.9	1884.2	1862.8	1901.4	1901.4
66°	12886.6	3931.5	1867.1	2090.1	1935.7	1719.8	1779.9	1855.6	1828.5	1881.4	1881.4
67.5°	11993.1	3478.3	1748.4	1992.9	1858.5	1689.8	1757.0	1808.5	1771.3	1849.9	1844.2
70°	10360.5	2690.5	1509.7	1772.7	1731.3	1645.5	1725.6	1714.1	1659.8	1779.9	1757.0
72.5°	8735.0	2044.4	1212.3	1483.9	1538.3	1589.7	1681.2	1594.0	1525.4	1609.8	1559.7
75°	6777.8	1536.8	957.8	1153.7	1299.5	1502.5	1628.3	1455.4	1356.7	1348.1	1321.0
77.5°	3664.1	1055.1	759.1	880.6	1032.2	1393.9	1592.6	1306.7	1158.0	1123.7	1102.2
80°	1451.1	686.2	551.8	667.6	722.0	1236.6	1506.8	1133.7	955.0	920.7	887.8
82.5°	599.0	406.0	356.0	447.5	470.3	1057.9	1352.4	929.3	737.7	1020.8	1083.7
85°	257.3	223.0	211.6	231.6	265.9	742.0	1076.5	709.1	796.3	710.5	564.7
87.5°	77.2	94.4	90.1	88.6	97.2	177.3	573.3	394.6	584.7	221.6	165.8
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)