

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: P383427

Luminaire Tested: **GAN-SA7B-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36951.7 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

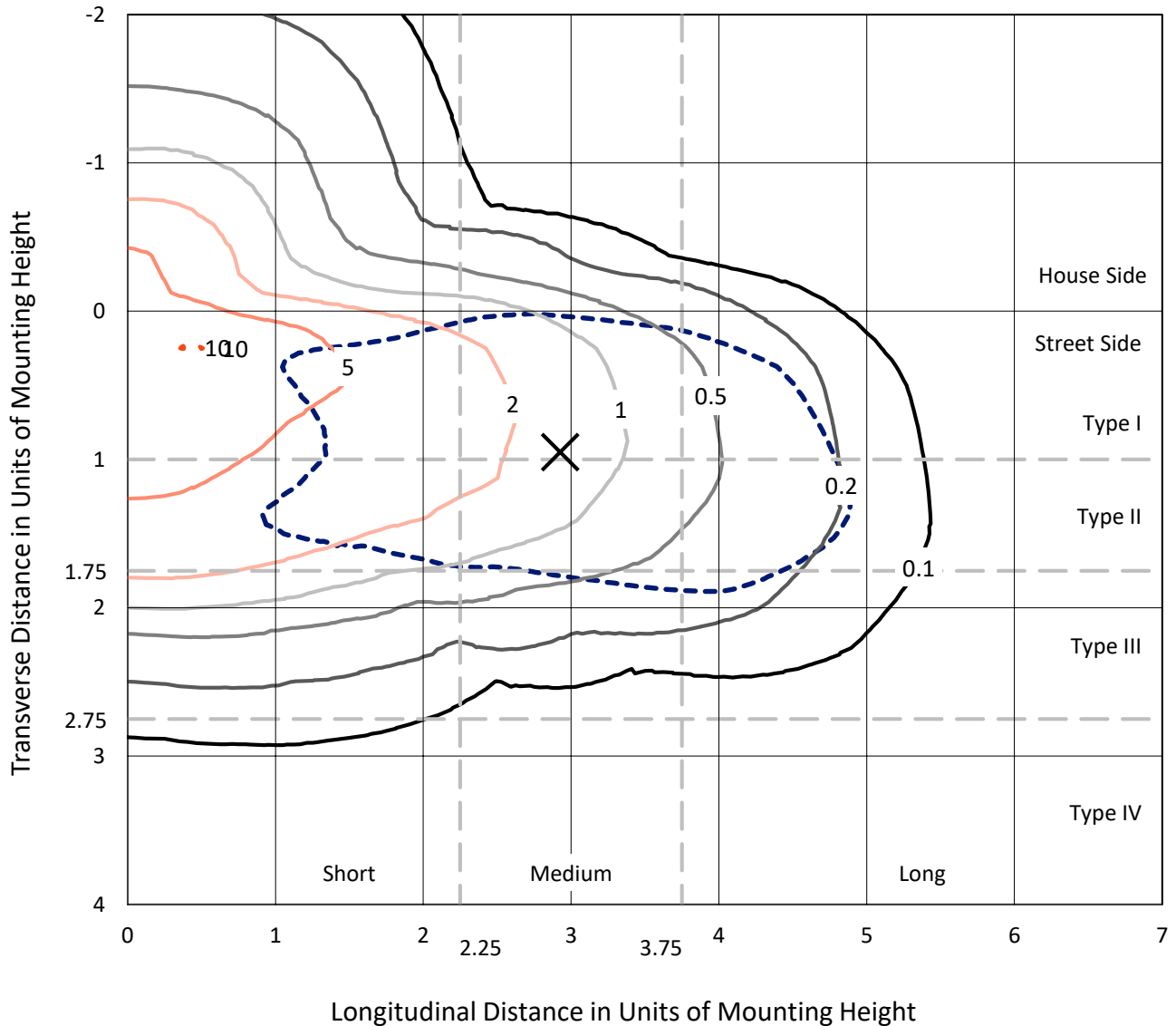
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

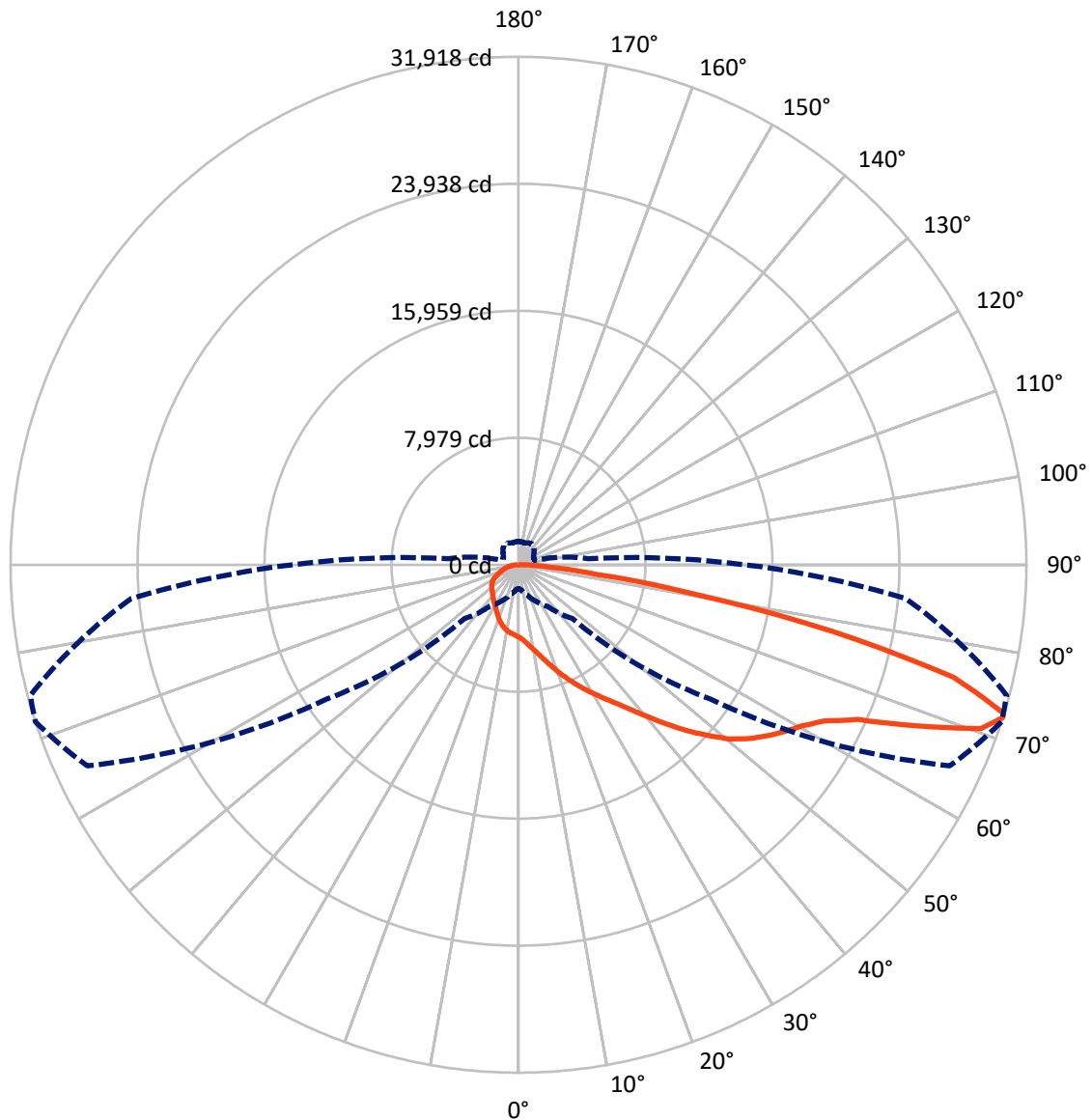
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6854.8	0.0	6854.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	30096.9	0.0	30096.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	36951.7	0.0	36951.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.5	1.2
10°-20°	1472.0	4.0
20°-30°	2579.5	7.0
30°-40°	3824.5	10.4
40°-50°	5593.7	15.1
50°-60°	7696.9	20.8
60°-70°	8568.9	23.2
70°-80°	5806.3	15.7
80°-90°	954.3	2.6
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°	36951.7	100.0
0°-180°	36951.7	100.0

Coefficient of Utilization

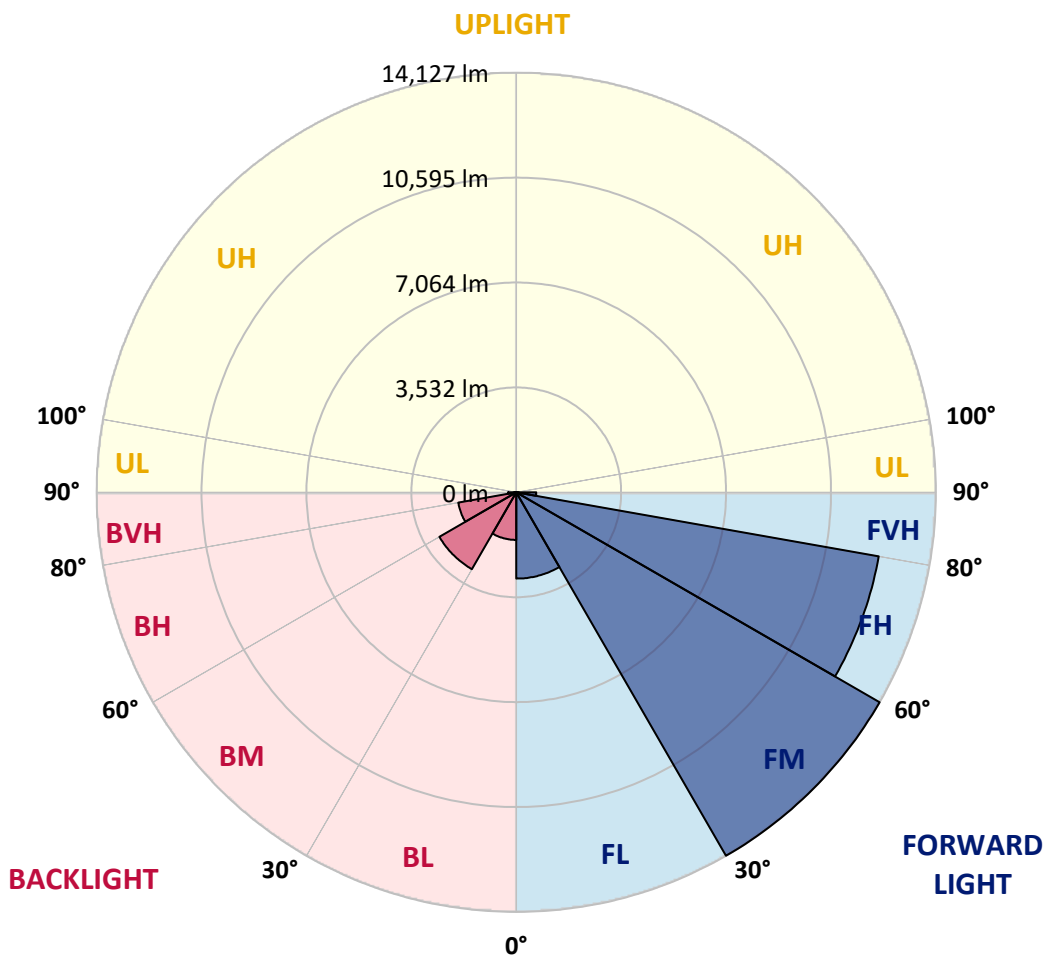


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2904.6	7.9			
FM (30°-60°)	14127.1	38.2			
FH (60°-80°)	12392.0	33.5			G5
FVH (80°-90°)	673.2	1.8			G4/750
BL (0°-30°)	1602.4	4.3	B3/2500		
BM (30°-60°)	2988.0	8.1	B3/5000		
BH (60°-80°)	1983.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	281.2	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4546.0	4546.0	4546.0	4546.0	4546.0	4546.0	4546.0	4546.0	4546.0	4546.0	4546.0
2.5°	5021.9	5014.2	4987.5	4987.5	4936.6	4893.3	4811.9	4757.2	4692.3	4669.5	4593.1
5°	5507.9	5510.5	5477.4	5454.5	5379.4	5287.7	5149.1	5023.2	4897.1	4846.3	4689.8
7.5°	5916.4	5911.2	5902.3	5883.3	5813.2	5719.1	5532.1	5345.0	5159.3	5083.0	4813.2
10°	6178.4	6189.9	6197.5	6206.4	6177.2	6109.7	5932.8	5705.1	5462.1	5357.8	4960.8
12.5°	6310.8	6331.1	6366.8	6427.8	6476.1	6468.5	6340.0	6098.3	5809.4	5678.4	5145.3
15°	6388.4	6415.1	6471.1	6580.5	6716.6	6794.2	6759.9	6541.0	6219.1	6057.6	5370.5
17.5°	6436.7	6458.3	6544.9	6691.1	6893.5	7099.6	7190.0	7006.7	6682.3	6497.7	5628.8
20°	6469.8	6486.4	6594.4	6766.2	7028.3	7356.6	7608.5	7562.7	7192.5	6953.3	5898.5
22.5°	6543.6	6557.5	6660.7	6833.6	7123.7	7547.4	8011.9	8080.5	7730.6	7459.6	6187.3
25°	6749.7	6749.7	6836.3	6957.1	7229.4	7712.8	8352.8	8656.9	8280.3	7964.7	6454.5
27.5°	7142.8	7139.0	7170.9	7212.8	7418.9	7880.8	8656.9	9165.9	8850.3	8505.5	6714.0
30°	7608.5	7633.9	7637.8	7617.5	7714.1	8090.8	8938.1	9702.7	9424.1	9052.6	6980.0
32.5°	8207.8	8224.4	8205.3	8137.8	8123.8	8388.5	9214.2	10265.1	10045.1	9623.9	7223.0
35°	8968.7	8936.8	8877.0	8739.6	8608.5	8786.7	9529.7	10827.5	10742.2	10314.7	7557.6
37.5°	9784.2	9785.4	9711.7	9400.0	9219.2	9295.6	9964.9	11464.9	11585.8	11136.7	7986.4
40°	10438.2	10472.6	10518.3	10108.6	9874.5	9980.1	10518.3	12204.1	12583.3	12111.2	8544.9
42.5°	10894.9	10934.4	11064.2	10807.2	10564.1	10760.0	11169.7	12993.0	13703.0	13236.0	9198.9
45°	11378.4	11400.0	11491.7	11381.0	11225.7	11667.3	11903.9	13809.8	14887.5	14434.5	9930.5
47.5°	11887.4	11910.2	12004.4	11930.6	11849.2	12514.6	12669.8	14579.6	16022.4	15751.4	10711.7
50°	12515.9	12531.2	12620.2	12486.7	12512.1	13153.4	13354.3	15285.8	17212.0	16934.7	11495.5
52.5°	13373.4	13377.2	13500.6	13379.8	13260.2	13621.6	13943.4	15951.2	18144.7	18013.6	12279.2
55°	14045.2	14085.9	14490.5	14465.1	14396.4	14046.5	14435.8	16584.8	18976.7	19039.1	13111.3
57.5°	13616.4	13775.4	14594.8	15172.5	15734.9	15103.8	15101.2	17298.6	19750.3	20045.5	14026.1
60°	11925.5	12141.8	13349.3	14630.5	16390.1	16943.5	16483.0	18170.1	20531.5	21043.0	15172.5
62.5°	8517.0	8873.2	10509.4	12555.3	15491.8	18162.5	19294.9	19553.1	21593.9	22198.3	16662.4
65°	4305.5	4575.3	5946.8	8411.3	12377.2	17366.0	22351.0	22581.3	23440.1	23977.0	18956.4
67.5°	2615.9	2717.7	3386.9	4678.3	7588.2	13527.4	23348.5	27628.6	27012.7	27297.8	22227.6
70°	1927.6	2002.6	2420.0	3107.0	4364.1	7938.1	20287.2	31230.5	30825.9	30794.1	24644.9
72°	1501.4	1556.1	1925.0	2510.3	3191.0	4762.4	14704.3	29900.9	31917.6	31757.3	24423.6
72.5°	1423.8	1472.1	1807.9	2362.7	3015.4	4317.0	13220.7	29003.9	31838.7	31766.1	24137.3
75°	1120.9	1155.3	1338.4	1827.0	2360.2	2449.2	7244.6	22476.9	28244.3	29418.7	21709.7
77.5°	927.5	932.6	1029.3	1329.6	1839.8	1731.7	3558.7	15594.9	20224.9	21516.3	15378.6
80°	755.8	762.1	807.9	932.6	1391.9	1281.3	1689.6	8967.4	11323.7	11337.7	7313.3
82.5°	601.8	603.1	653.9	682.0	1000.0	916.1	968.3	4210.1	4948.1	4759.7	2628.6
85°	423.7	414.8	638.7	559.9	653.9	587.8	534.3	1666.7	2045.9	1956.8	823.2
87.5°	141.2	146.3	283.7	362.7	381.7	333.3	237.9	638.7	772.3	765.9	260.8
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°	4546.0	4546.0	4546.0	4546.0	4546.0	4546.0	4546.0	4546.0	4546.0	4546.0	4546.0
2.5°	4569.0	4528.3	4468.4	4402.2	4350.0	4296.7	4257.2	4236.9	4213.9	4194.9	4217.8
5°	4617.3	4540.9	4413.7	4289.0	4197.4	4115.9	4057.4	4026.9	3998.9	3979.9	3982.4
7.5°	4696.1	4572.8	4359.0	4177.1	4049.8	3962.1	3902.3	3881.9	3864.1	3858.9	3865.4
10°	4780.1	4598.2	4286.4	4044.7	3899.6	3827.2	3800.4	3814.4	3827.2	3838.6	3851.3
12.5°	4875.5	4621.1	4180.9	3889.5	3766.1	3738.1	3764.8	3825.9	3870.4	3897.1	3913.7
15°	5000.3	4641.4	4058.8	3734.3	3651.6	3683.3	3773.7	3879.3	3956.9	4006.6	4014.2
17.5°	5114.8	4640.1	3902.3	3577.8	3558.7	3651.6	3787.7	3936.5	4040.9	4110.9	4124.9
20°	5233.1	4605.9	3720.3	3425.1	3464.5	3617.2	3794.1	3973.5	4099.5	4180.9	4200.0
22.5°	5343.7	4546.0	3520.5	3286.4	3385.6	3571.5	3769.9	3951.8	4077.8	4144.0	4164.3
25°	5418.8	4441.7	3318.3	3169.4	3315.7	3515.5	3691.0	3837.3	3931.5	3964.6	3969.7
27.5°	5457.0	4305.5	3127.4	3067.6	3243.2	3423.8	3544.7	3617.2	3643.9	3641.4	3636.3
30°	5462.1	4126.2	2963.3	2984.9	3159.2	3288.9	3346.2	3332.2	3297.9	3239.4	3244.4
32.5°	5445.5	3923.9	2825.8	2906.0	3052.3	3124.9	3127.4	3059.9	2968.4	2875.5	2850.0
35°	5450.7	3725.4	2704.9	2816.9	2922.5	2954.3	2925.1	2825.8	2701.1	2581.5	2556.1
37.5°	5506.7	3552.4	2600.6	2713.9	2778.8	2786.4	2744.4	2640.1	2548.4	2431.4	2421.3
40°	5640.2	3428.9	2501.4	2598.1	2635.0	2638.8	2579.0	2505.2	2512.8	2450.5	2449.2
42.5°	5880.7	3375.5	2413.6	2477.3	2500.1	2507.7	2462.0	2414.9	2481.0	2440.3	2426.3
45°	6191.2	3388.2	2339.8	2358.9	2400.9	2436.5	2408.5	2351.2	2376.8	2199.8	2141.3
47.5°	6549.9	3469.6	2281.3	2257.1	2329.6	2397.1	2353.8	2267.3	2176.9	2001.3	1968.3
50°	6969.8	3595.6	2227.9	2156.6	2252.0	2343.6	2300.4	2176.9	2040.8	1955.6	1944.1
52.5°	7407.5	3749.6	2174.4	2045.9	2154.0	2302.9	2281.3	2156.6	1988.7	1904.6	1889.4
55°	7903.7	3904.8	2107.0	1917.4	2048.5	2283.8	2272.4	2082.8	1949.2	1902.1	1890.7
57.5°	8520.8	4081.7	2017.9	1783.8	1949.2	2215.1	2179.5	2038.2	1908.5	1872.9	1869.1
60°	9324.9	4342.4	1889.4	1641.3	1828.3	2109.5	2101.9	1973.4	1843.6	1818.2	1813.1
62.5°	10531.1	4773.8	1712.6	1498.8	1693.5	1930.1	2000.1	1885.5	1774.9	1773.7	1776.2
65°	12401.4	5422.6	1520.5	1374.1	1557.4	1778.7	1881.7	1795.3	1704.9	1730.3	1734.2
67.5°	14569.4	5960.9	1332.1	1252.0	1418.7	1635.0	1774.9	1704.9	1612.0	1678.2	1679.5
70°	15290.8	5479.9	1166.8	1131.1	1274.9	1496.3	1659.1	1605.7	1511.5	1577.7	1571.3
72°	14229.7	4423.9	1059.8	1039.5	1166.8	1381.8	1556.1	1512.8	1420.0	1464.5	1447.9
72.5°	13895.1	4217.8	1033.1	1016.6	1137.4	1352.5	1529.3	1489.9	1397.0	1435.1	1420.0
75°	12395.0	3663.0	888.0	891.9	992.4	1210.0	1379.2	1366.5	1271.1	1274.9	1269.8
77.5°	8990.3	2685.8	748.1	773.6	844.8	1063.6	1227.8	1220.1	1115.8	1096.7	1092.9
80°	4171.9	1370.3	609.4	620.9	694.7	889.3	1047.2	1036.9	953.0	928.8	914.8
82.5°	1428.8	651.4	458.0	465.7	538.2	716.4	908.4	902.1	832.1	785.0	755.8
85°	510.2	324.5	320.6	313.0	384.3	563.7	791.3	757.1	653.9	557.3	554.7
87.5°	165.4	138.7	165.4	164.1	223.9	381.7	575.1	489.8	474.6	394.4	386.8
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)