

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: P192177

Luminaire Tested: **GAN-AF-09-LED-U-T2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-T2-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52221 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 501
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: 28.75 FT

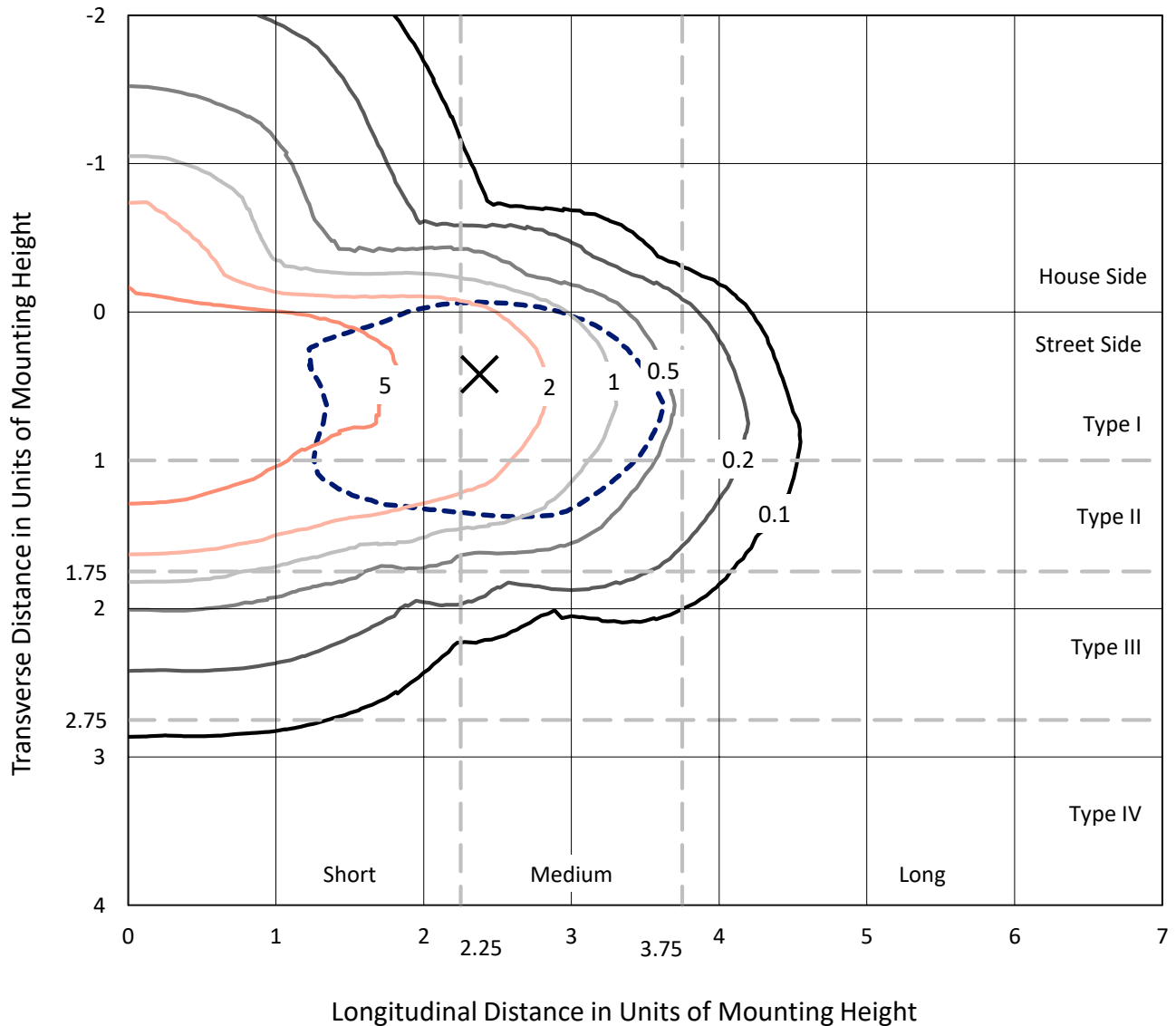


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Iso-Footcandle Lines of Horizontal Illumination

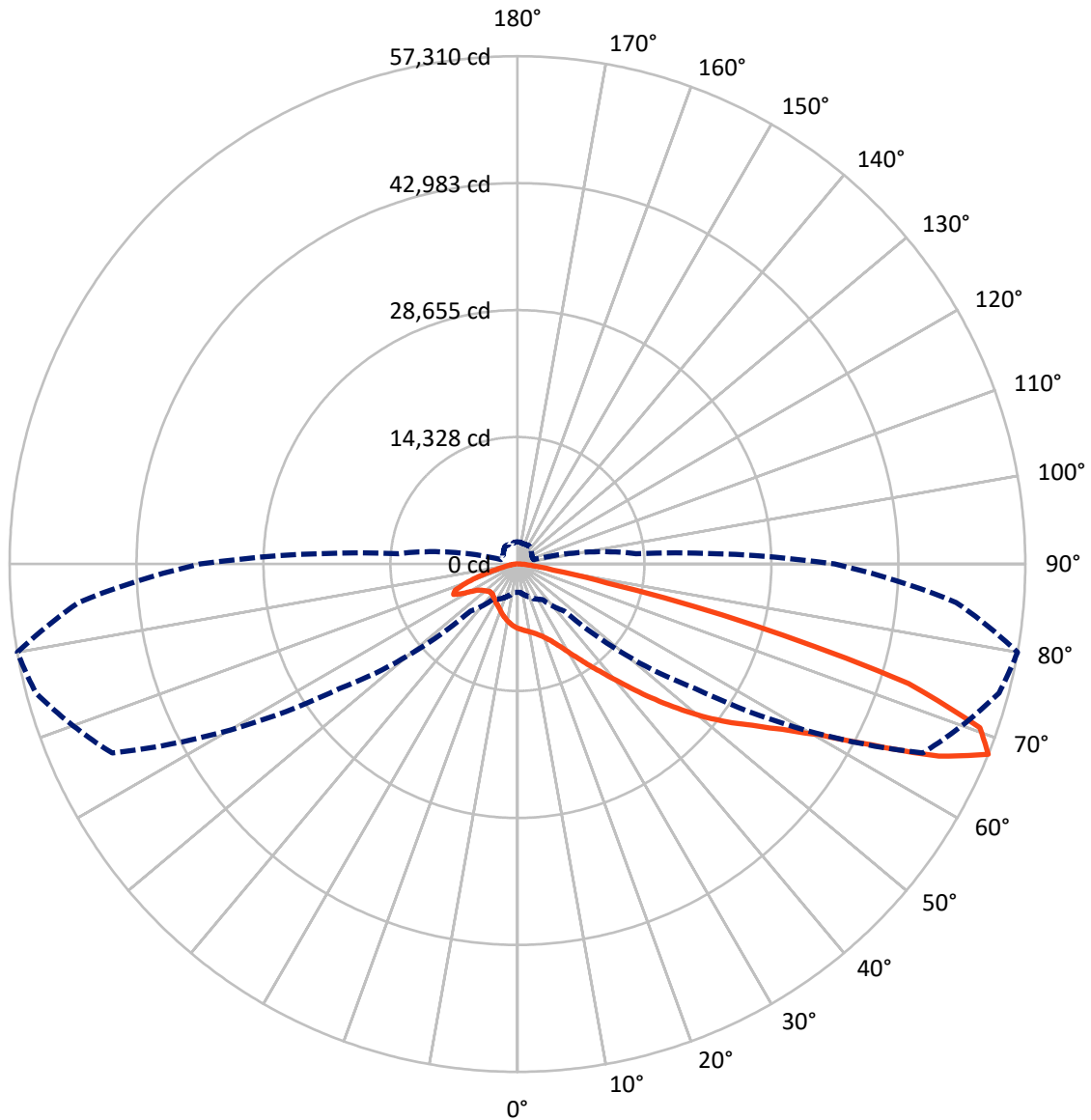
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9617.1	0.0	9617.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	42603.9	0.0	42603.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	52221.0	0.0	52221.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.2	1.3
10°-20°	1927.9	3.7
20°-30°	3191.1	6.1
30°-40°	5219.8	10.0
40°-50°	8427.9	16.1
50°-60°	12167.4	23.3
60°-70°	13427.4	25.7
70°-80°	6189.2	11.9
80°-90°	1001.1	1.9
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°	52221.0	100.0
0°-180°	52221.0	100.0



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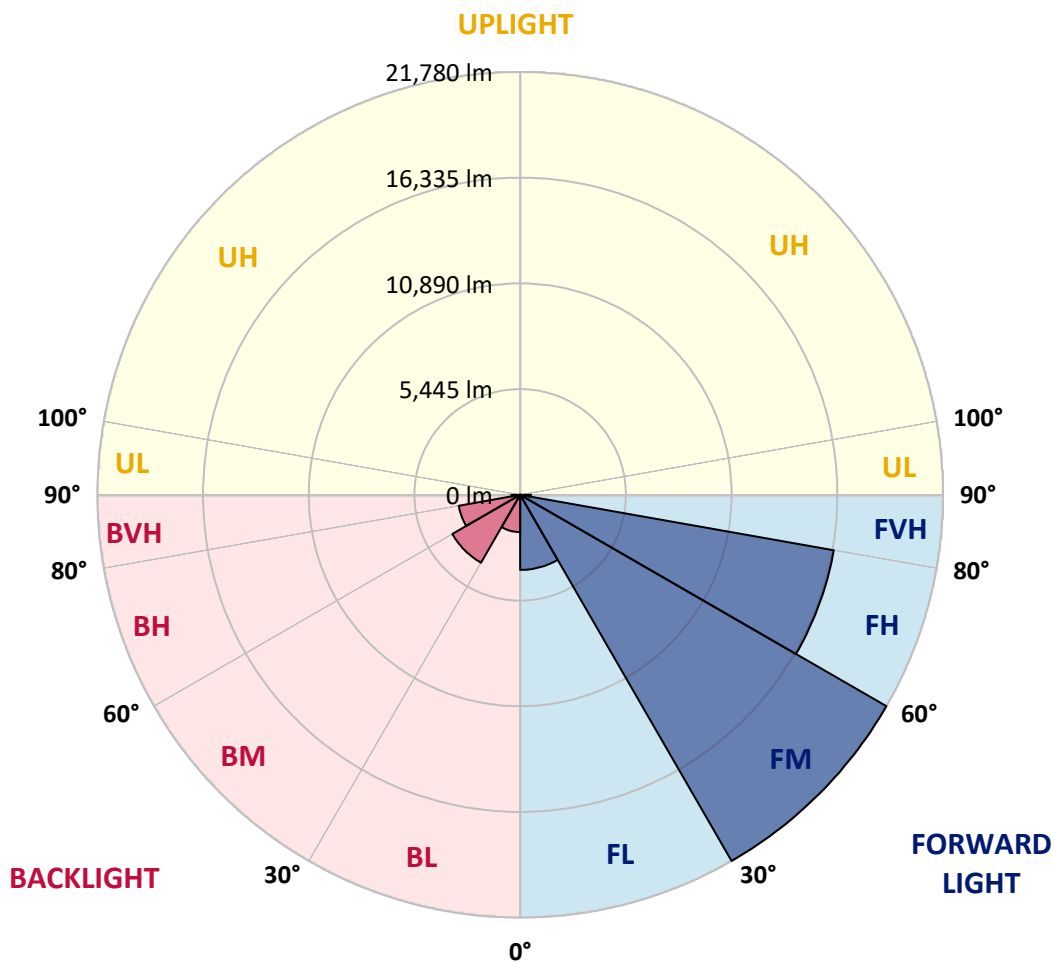
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3869.5	7.4			
FM	(30°-60°)	21780.0	41.7			
FH	(60°-80°)	16404.0	31.4			G5
FVH	(80°-90°)	550.4	1.1			G4/750
BL	(0°-30°)	1918.7	3.7	B3/2500		
BM	(30°-60°)	4035.0	7.7	B3/5000		
BH	(60°-80°)	3212.7	6.2	B4/5000		G4/5000
BVH	(80°-90°)	450.7	0.9			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	7255.0	7255.0	7255.0	7255.0	7255.0	7255.0	7255.0	7255.0	7255.0	7255.0	7255.0
2.5°	7936.3	7890.0	7897.7	7884.9	7846.3	7779.5	7707.5	7576.4	7440.1	7368.1	7311.6
5°	8599.6	8586.7	8568.7	8527.6	8429.9	8291.1	8118.8	7887.5	7638.1	7507.0	7381.0
7.5°	9095.8	9088.1	9064.9	9039.2	8944.1	8777.0	8517.3	8188.2	7825.8	7645.8	7450.4
10°	9136.9	9149.8	9167.7	9237.2	9250.0	9160.0	8895.2	8496.7	8021.1	7789.8	7540.4
12.5°	8787.3	8815.5	8885.0	9062.3	9250.0	9360.6	9224.3	8820.7	8249.9	7969.7	7653.5
15°	8324.5	8339.9	8424.8	8669.0	9005.8	9347.7	9476.3	9178.0	8545.6	8201.1	7823.2
17.5°	8126.5	8134.3	8193.4	8355.4	8669.0	9157.5	9617.7	9566.2	8908.1	8489.0	8031.4
20°	8026.3	8044.3	8129.1	8288.5	8486.5	8913.2	9638.2	9985.3	9340.0	8849.0	8293.7
22.5°	8311.6	8303.9	8334.8	8414.5	8581.6	8838.7	9622.8	10417.2	9890.2	9311.7	8635.6
25°	8977.5	9005.8	8951.8	8861.8	8915.8	9095.8	9705.1	10885.1	10579.2	9905.6	9082.9
27.5°	9926.2	9897.9	9818.2	9607.4	9496.8	9573.9	9977.6	11389.0	11435.3	10687.1	9674.2
30°	10872.2	10849.1	10772.0	10514.9	10288.7	10224.4	10507.2	11967.4	12455.9	11625.5	10399.2
32.5°	11854.3	11828.6	11756.6	11499.5	11227.0	11077.9	11260.4	12635.9	13659.1	12746.4	11252.7
35°	13065.2	13016.4	12864.7	12507.3	12239.9	12124.3	12209.1	13476.5	15047.3	14073.0	12288.8
37.5°	14204.1	14278.7	14124.4	13630.8	13283.7	13242.6	13337.7	14502.3	16543.6	15556.4	13479.1
40°	15348.1	15361.0	15222.2	14818.5	14461.2	14394.3	14633.4	15746.6	18309.8	17330.3	14926.5
42.5°	16530.7	16556.4	16322.5	15949.7	15687.5	15700.3	15972.9	17204.3	20335.6	19420.4	16592.4
45°	17931.9	17970.4	17713.3	17224.9	16985.8	17466.5	17353.4	18839.4	22556.9	21795.9	18505.2
47.5°	19397.3	19456.4	19261.0	18803.4	18505.2	19165.9	18734.0	20651.9	24947.8	24343.6	20605.6
50°	20196.8	20281.7	20471.9	20438.5	20374.2	20263.7	20273.9	22595.4	27413.3	26996.8	22765.1
52.5°	19767.5	19764.9	20459.0	21302.3	22202.1	22268.9	22150.7	24644.4	29716.8	29590.8	24798.7
55°	17803.3	17937.0	18988.5	20621.0	23078.8	24613.6	24963.2	26991.6	31979.1	32125.7	26863.1
57.5°	14533.2	14643.7	16062.8	18338.1	21896.2	26007.0	28963.5	30403.2	34508.9	35192.7	29611.4
60°	9856.7	9990.4	11494.4	14227.2	18713.4	25230.6	32771.0	36491.0	37537.4	39092.8	33467.7
62.5°	5792.2	5913.0	7139.3	8974.9	13175.7	21623.6	34442.0	45152.3	42347.5	44977.5	39349.8
65°	3987.4	4069.7	4666.1	5586.5	7571.2	14564.0	32369.9	51132.2	49749.0	52268.5	46170.4
67.5°	3208.5	3198.2	3671.2	4298.5	4874.4	7509.5	24477.3	50456.0	56258.5	57310.0	49710.5
70°	2642.9	2632.6	2953.9	3473.3	3894.9	4229.1	13332.6	42578.9	54931.9	55358.7	46450.6
72.5°	2211.0	2221.2	2426.9	2812.5	3195.6	3185.3	5859.0	29953.3	43213.9	46165.2	37028.3
75°	1866.5	1871.6	2007.9	2280.4	2594.0	2565.7	3177.6	16227.4	25120.0	27174.2	20525.9
77.5°	1588.8	1593.9	1681.4	1833.0	2056.7	2046.4	2318.9	7010.8	10478.9	10350.4	7021.1
80°	1416.6	1416.6	1457.7	1486.0	1609.4	1563.1	1719.9	3367.8	4429.6	4090.3	2802.3
82.5°	1110.6	1115.8	1367.7	1357.4	1267.4	1208.3	1208.3	1984.7	2347.2	2169.8	1640.2
85°	624.7	622.2	881.8	1064.3	1115.8	851.0	843.2	1110.6	1277.7	1126.0	794.4
87.5°	267.4	272.5	408.8	473.0	632.4	529.6	521.9	573.3	650.4	563.0	367.6
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°	7255.0	7255.0	7255.0	7255.0	7255.0	7255.0	7255.0	7255.0	7255.0	7255.0	7255.0
2.5°	7257.6	7190.7	7044.2	6861.7	6697.1	6589.2	6491.5	6350.1	6357.8	6260.1	6188.1
5°	7252.4	7113.6	6774.3	6370.6	5982.4	5702.2	5491.4	5301.1	5254.9	5164.9	5110.9
7.5°	7257.6	7031.3	6460.6	5815.3	5334.6	4979.8	4799.8	4699.6	4676.4	4645.6	4648.1
10°	7275.6	6956.8	6116.1	5296.0	4792.1	4558.2	4514.5	4545.3	4581.3	4591.6	4594.2
12.5°	7316.7	6890.0	5738.2	4833.2	4452.8	4380.8	4455.3	4560.7	4630.2	4663.6	4661.0
15°	7409.3	6838.5	5375.7	4470.8	4265.1	4303.6	4442.5	4591.6	4691.9	4738.1	4740.7
17.5°	7509.5	6764.0	5002.9	4193.1	4126.3	4224.0	4396.2	4571.0	4694.4	4745.8	4756.1
20°	7640.6	6671.4	4612.2	3984.9	3995.1	4105.7	4267.7	4442.5	4578.7	4622.4	4643.0
22.5°	7812.9	6571.2	4270.2	3815.2	3846.0	3930.9	4056.8	4208.5	4326.8	4347.4	4365.3
25°	8044.3	6463.2	3997.7	3660.9	3673.8	3722.6	3807.5	3897.4	3979.7	3956.6	3974.6
27.5°	8355.4	6370.6	3794.6	3519.5	3496.4	3506.7	3550.4	3578.7	3622.4	3558.1	3565.8
30°	8720.4	6270.4	3637.8	3396.1	3331.9	3313.9	3324.1	3339.6	3373.0	3285.6	3272.7
32.5°	9144.6	6149.5	3491.3	3288.2	3198.2	3162.2	3167.3	3208.5	3337.0	3283.0	3254.7
35°	9638.2	6013.3	3337.0	3169.9	3108.2	3056.8	3051.6	3180.2	3563.2	3529.8	3504.1
37.5°	10216.7	5877.0	3182.7	3036.2	3041.3	2984.8	2966.8	3113.3	3606.9	3475.8	3457.8
40°	10951.9	5805.0	3051.6	2894.8	2959.1	2951.4	2915.4	2989.9	3319.0	3079.9	3049.1
42.5°	11862.0	5815.3	2953.9	2743.1	2861.4	2943.7	2887.1	2889.7	3007.9	2828.0	2799.7
45°	12985.5	5936.2	2884.5	2622.3	2750.8	2935.9	2876.8	2835.7	2846.0	2750.8	2735.4
47.5°	14296.6	6185.5	2835.7	2522.0	2645.4	2907.7	2874.2	2820.3	2797.1	2745.7	2732.8
50°	15754.3	6548.0	2799.7	2426.9	2550.3	2861.4	2876.8	2804.8	2779.1	2758.6	2750.8
52.5°	17186.3	6961.9	2745.7	2344.6	2475.8	2804.8	2884.5	2789.4	2761.1	2745.7	2738.0
55°	18782.8	7478.7	2663.4	2275.2	2414.1	2732.8	2884.5	2766.3	2735.4	2738.0	2735.4
57.5°	20939.8	8314.2	2565.7	2216.1	2339.5	2645.4	2835.7	2740.6	2702.0	2704.6	2707.1
60°	24310.2	9787.3	2447.5	2157.0	2246.9	2542.6	2768.8	2684.0	2645.4	2655.7	2658.3
62.5°	29266.9	11949.4	2293.2	2069.6	2149.3	2432.0	2676.3	2612.0	2573.4	2599.2	2599.2
65°	34418.9	13857.0	2103.0	1959.0	2046.4	2311.2	2560.6	2522.0	2483.5	2542.6	2540.0
67.5°	35804.6	13430.3	1912.7	1838.2	1943.6	2177.5	2421.8	2401.2	2380.6	2483.5	2478.3
70°	31806.9	10782.3	1737.9	1714.8	1830.5	2033.6	2272.7	2272.7	2259.8	2336.9	2318.9
72.5°	24233.1	7645.8	1570.8	1583.7	1701.9	1876.7	2110.7	2128.7	2108.1	2146.7	2131.3
75°	12972.6	4375.6	1403.7	1439.7	1542.5	1717.3	1930.7	1948.7	1935.9	1933.3	1941.0
77.5°	4311.4	2139.0	1228.9	1285.4	1375.4	1552.8	1743.1	1771.3	1740.5	1735.3	1732.8
80°	1920.4	1344.6	1036.1	1110.6	1190.3	1365.1	1545.1	1568.2	1534.8	1581.1	1522.0
82.5°	1234.0	884.4	830.4	912.7	989.8	1177.5	1347.1	1352.3	1321.4	1534.8	1308.6
85°	599.0	547.6	624.7	699.3	766.1	925.5	1115.8	1118.3	1041.2	948.7	915.2
87.5°	298.2	318.8	416.5	483.3	516.7	635.0	812.4	797.0	763.6	694.1	640.1
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)