

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: P193267

Luminaire Tested: **GAN-AF-09-LED-U-T4FT-7030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41832.1 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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

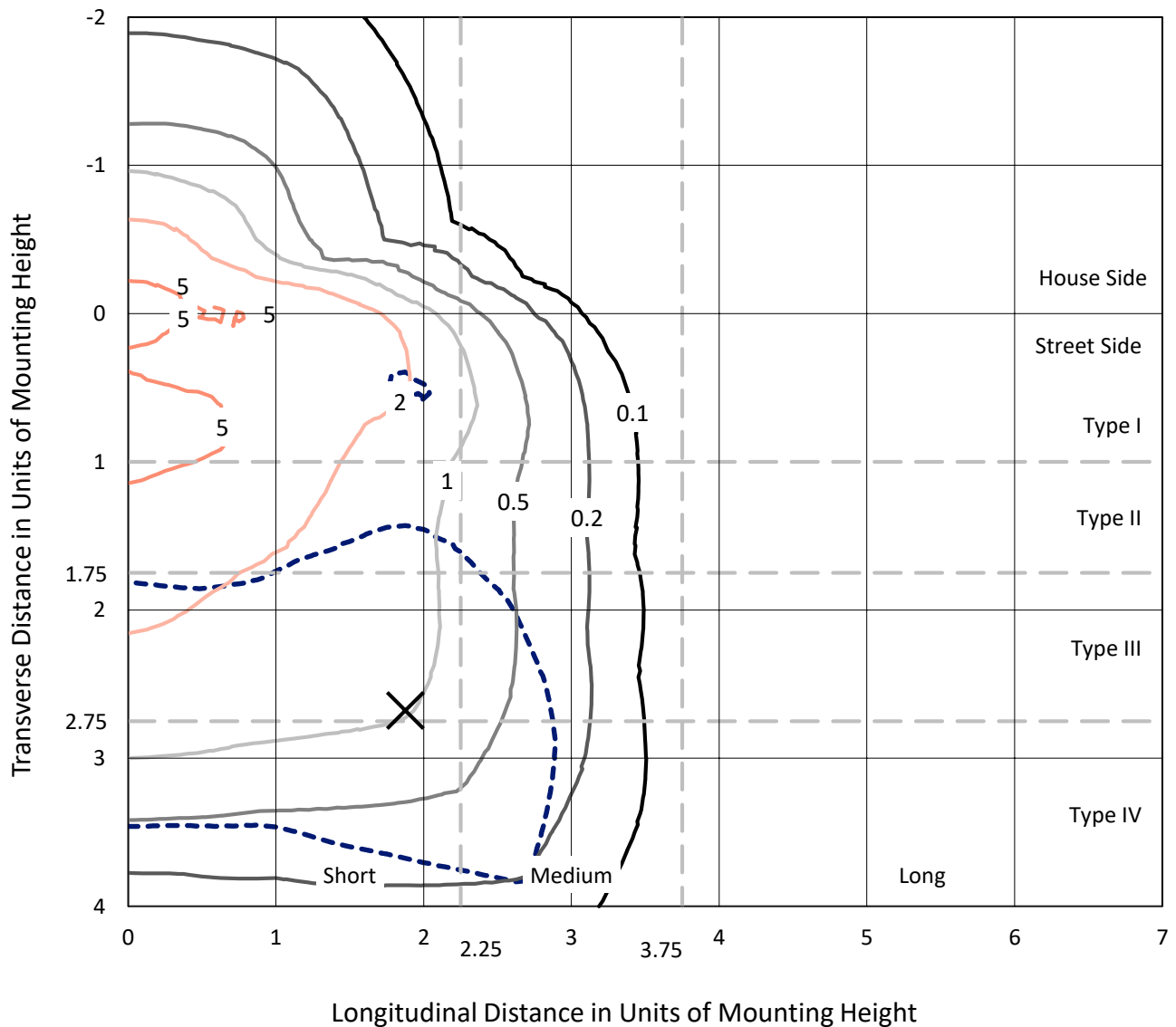


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

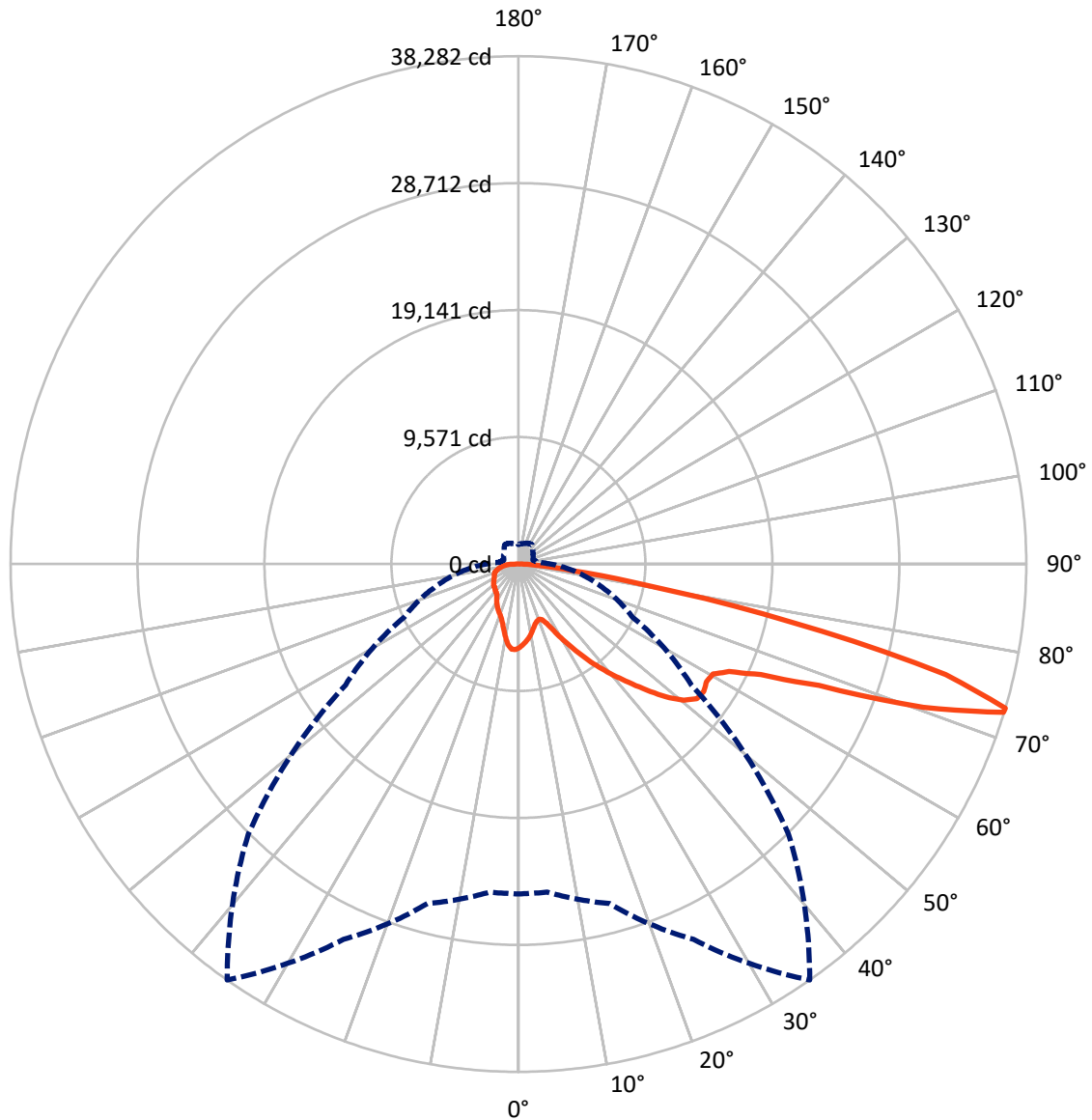


Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7978.5	0.0	7978.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	33853.6	0.0	33853.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	41832.1	0.0	41832.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.6	1.4
10°-20°	1426.6	3.4
20°-30°	2306.3	5.5
30°-40°	3867.3	9.2
40°-50°	5961.2	14.3
50°-60°	7997.6	19.1
60°-70°	10654.4	25.5
70°-80°	8126.1	19.4
80°-90°	921.1	2.2
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°	41832.1	100.0
0°-180°	41832.1	100.0

Coefficient of Utilization



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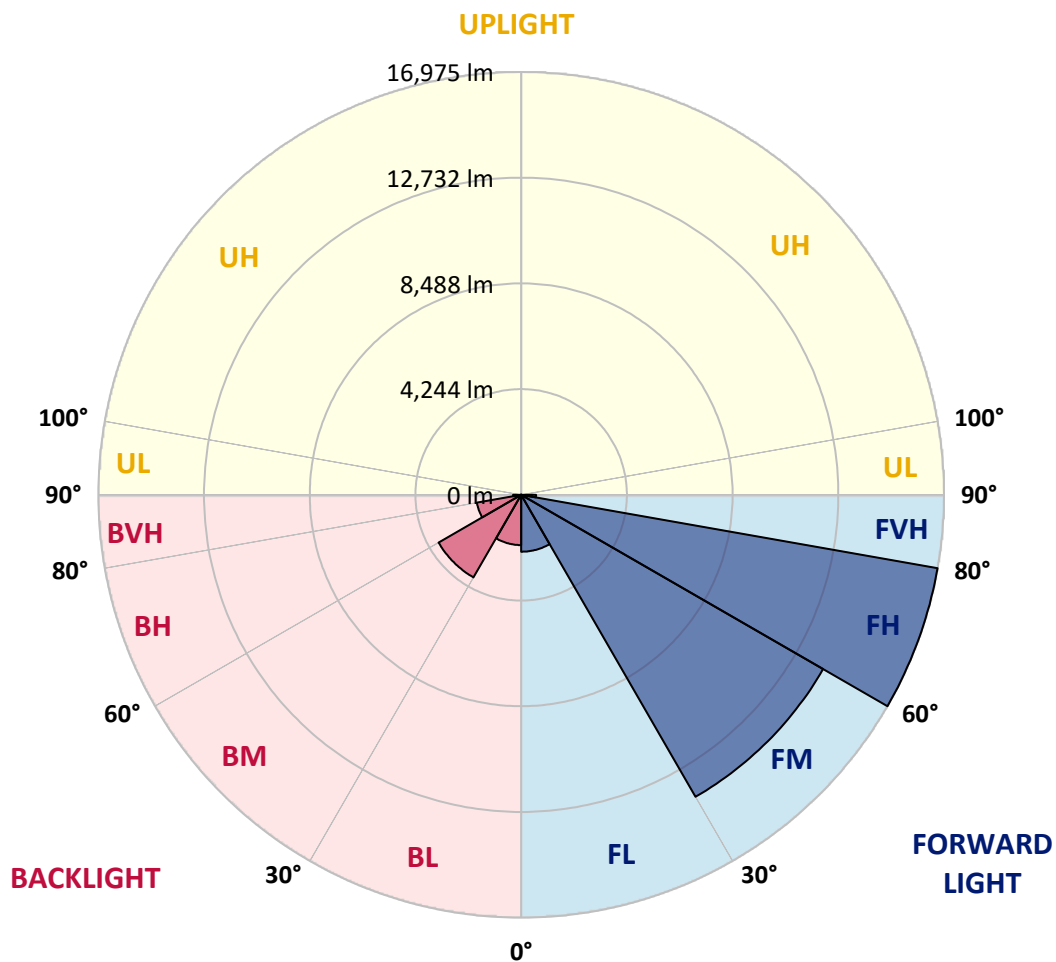
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2285.4	5.5			
FM	(30°-60°)	13997.3	33.5			
FH	(60°-80°)	16975.4	40.6			G5
FVH	(80°-90°)	595.4	1.4			G4/750
BL	(0°-30°)	2019.0	4.8	B3/2500		
BM	(30°-60°)	3828.8	9.2	B3/5000		
BH	(60°-80°)	1805.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	325.7	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6313.8	6313.8	6313.8	6313.8	6313.8	6313.8	6313.8	6313.8	6313.8	6313.8	6313.8
2.5°	6064.7	6076.7	6062.7	6080.8	6110.9	6143.0	6165.1	6197.3	6233.5	6283.6	6295.7
5°	5779.4	5797.6	5797.6	5829.6	5887.9	5940.1	5988.3	6040.5	6116.9	6203.3	6237.4
7.5°	5466.0	5476.1	5494.2	5542.4	5626.8	5701.0	5769.3	5853.8	5958.2	6072.7	6132.9
10°	5088.4	5102.4	5130.6	5198.9	5313.4	5415.8	5514.2	5630.7	5763.3	5906.0	5982.3
12.5°	4821.2	4817.1	4829.3	4879.4	4979.9	5104.5	5247.0	5395.8	5558.4	5725.1	5817.6
15°	4730.8	4708.7	4662.5	4650.4	4704.7	4829.3	4993.9	5176.8	5371.6	5572.6	5687.1
17.5°	4787.0	4748.9	4622.3	4529.9	4521.9	4616.3	4791.0	4996.0	5221.0	5466.0	5608.8
20°	5140.6	5050.2	4738.8	4523.9	4449.6	4495.8	4648.4	4865.5	5130.6	5456.0	5638.8
22.5°	5986.4	5853.8	5192.9	4793.1	4542.0	4485.7	4600.3	4831.2	5140.6	5580.5	5813.5
25°	7217.7	7028.8	5972.2	5464.0	4945.7	4646.5	4672.6	4909.6	5283.2	5869.9	6151.1
27.5°	8190.0	8067.4	6990.7	6410.2	5680.9	5080.3	4907.6	5106.4	5574.5	6343.9	6631.2
30°	8768.6	8694.2	8079.5	7482.9	6619.2	5771.4	5357.5	5476.1	6030.6	7000.8	7237.9
32.5°	9439.5	9395.3	9093.9	8545.6	7631.5	6679.3	6070.7	6028.5	6641.3	7790.3	7898.7
35°	10134.6	10120.4	9943.6	9550.1	8718.4	7876.6	7016.8	6731.6	7306.1	8609.8	8541.6
37.5°	10781.3	10757.3	10654.9	10425.8	9855.3	9162.3	7981.1	7452.8	8023.2	9393.3	9090.0
40°	11972.6	11783.8	11432.3	11259.5	11004.4	10245.0	8746.4	8125.7	8766.5	10140.6	9564.0
42.5°	13425.0	13117.6	12462.7	12225.8	12189.6	11098.8	9268.8	8778.7	9515.8	10881.9	10030.1
45°	14568.1	14278.8	13714.3	13415.0	13547.6	11872.2	9793.0	9475.6	10287.2	11659.3	10510.2
47.5°	15787.4	15333.5	14586.1	14676.6	14965.8	12603.4	10327.4	10224.9	11133.0	12529.1	11106.9
50°	15831.6	15484.1	15156.7	15697.1	16147.0	13276.4	10996.4	11010.4	12167.5	13623.9	11900.3
52.5°	14913.6	14839.3	15359.5	16209.2	16858.1	13808.7	11757.7	11822.0	13491.4	14881.4	12772.2
55°	14592.1	14507.8	15108.5	16030.5	16954.6	14248.6	12583.3	12699.9	15092.3	16207.3	13621.9
57.5°	15375.6	15188.7	15229.0	15946.2	16719.5	14730.8	13483.2	13718.4	16832.1	17366.3	14168.3
60°	17565.3	17165.5	16406.2	16388.1	16846.0	15453.9	14523.9	14811.0	18639.9	17920.8	13955.3
62.5°	20636.8	20237.0	18814.8	17888.7	17820.4	16647.2	15801.5	15877.8	19684.5	17169.5	12655.6
65°	23961.3	23603.9	22014.7	20707.1	20076.3	18623.9	17286.0	16353.9	19343.0	15102.4	10381.6
67.5°	27997.1	27613.4	26247.5	25040.1	24433.4	21813.9	18328.6	15897.9	17175.5	11699.5	7462.9
70°	30819.6	30427.8	29889.4	30867.7	32352.2	26416.1	18463.1	14043.7	12828.4	7776.2	4491.7
72.5°	27137.4	26954.5	27936.8	32057.0	38240.2	29208.4	16689.4	10224.9	7450.7	4128.2	2599.4
73°	24863.4	24823.1	26498.5	31223.3	38282.4	28778.6	15912.0	9503.8	6390.1	3652.1	2376.5
75°	11227.4	11550.8	15223.0	23848.9	33260.2	23714.2	11199.3	5451.9	3609.9	2523.2	1793.9
77.5°	2697.8	2810.3	4762.9	11325.9	21004.3	14132.1	5074.3	2695.9	2308.1	1781.8	1309.8
80°	1149.1	1187.2	1834.0	4184.4	9889.5	5691.0	2338.2	1805.9	1597.1	1243.5	918.0
82.5°	638.8	678.9	1040.5	1898.4	3991.6	1940.6	1426.3	1257.6	1050.6	749.3	596.7
85°	361.5	383.7	608.7	1060.7	1691.5	779.4	853.8	835.8	592.6	385.6	293.3
87.5°	170.8	184.8	293.3	492.2	662.8	305.4	433.9	478.1	371.6	235.0	152.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6313.8	6313.8	6313.8	6313.8	6313.8	6313.8	6313.8	6313.8	6313.8	6313.8
2.5°	6309.7	6345.9	6388.1	6410.2	6430.2	6454.4	6478.5	6478.5	6482.5	6484.5
5°	6265.6	6339.9	6406.2	6434.3	6440.3	6440.3	6434.3	6402.1	6374.0	6386.1
7.5°	6173.1	6281.7	6337.9	6327.9	6251.5	6163.1	6088.8	5998.4	5952.2	5944.1
10°	6040.5	6165.1	6175.2	6074.7	5885.9	5697.0	5540.3	5387.7	5315.4	5297.3
12.5°	5893.9	6008.3	5944.1	5737.2	5433.9	5158.6	4959.9	4805.1	4736.8	4718.8
15°	5775.5	5853.8	5691.0	5365.6	4983.9	4692.6	4527.9	4413.4	4365.2	4351.1
17.5°	5713.1	5729.2	5432.0	4991.9	4586.1	4343.0	4240.7	4186.4	4168.3	4158.3
20°	5743.2	5630.7	5184.8	4644.4	4260.8	4090.0	4065.9	4051.8	4047.8	4041.7
22.5°	5893.9	5600.6	4957.7	4314.9	3975.5	3901.1	3921.2	3919.2	3915.2	3911.2
25°	6163.1	5626.8	4736.8	4001.6	3736.4	3720.4	3756.6	3756.6	3740.5	3740.5
27.5°	6518.6	5680.9	4489.8	3704.3	3519.5	3521.5	3549.7	3541.5	3523.5	3511.5
30°	6952.6	5715.2	4200.5	3437.1	3316.6	3308.6	3316.6	3282.4	3228.2	3224.1
32.5°	7396.6	5673.0	3865.0	3200.1	3101.7	3083.6	3077.5	3029.3	2967.1	2949.0
35°	7798.3	5518.2	3523.5	3011.3	2896.8	2856.6	2884.7	2868.6	2812.4	2798.3
37.5°	8091.6	5231.0	3216.1	2844.4	2750.0	2740.0	2758.1	2764.2	2697.8	2683.9
40°	8288.4	4841.3	2953.0	2703.8	2721.9	2683.9	2623.6	2581.4	2561.2	2555.2
42.5°	8447.2	4435.5	2732.0	2637.6	2727.9	2617.6	2487.0	2418.7	2454.8	2470.9
45°	8630.0	4039.8	2547.2	2555.2	2697.8	2541.2	2392.6	2326.2	2340.4	2344.2
47.5°	8881.0	3557.6	2348.3	2422.6	2597.4	2488.9	2334.3	2239.9	2173.6	2143.4
50°	9228.6	2987.1	2141.4	2274.0	2499.0	2450.8	2243.8	2143.4	2020.9	1992.8
52.5°	9469.6	2454.8	1970.7	2149.4	2410.6	2374.4	2171.5	2041.0	1912.4	1888.3
55°	9339.1	2039.0	1822.0	2010.8	2294.1	2280.0	2111.3	1936.5	1836.1	1816.0
57.5°	8686.2	1775.8	1707.5	1880.3	2151.5	2199.7	2030.9	1848.1	1775.8	1761.7
60°	7440.7	1611.1	1635.2	1791.9	2035.0	2119.3	1950.6	1799.9	1751.8	1741.7
62.5°	5773.4	1500.5	1581.0	1727.6	1944.6	2063.1	1906.3	1793.9	1775.8	1763.8
65°	4136.2	1412.1	1522.7	1663.4	1862.3	2010.8	1890.3	1785.9	1789.8	1779.9
67.5°	2810.3	1333.8	1452.4	1591.1	1781.8	1964.6	1868.3	1757.8	1807.9	1795.9
70°	1966.6	1257.6	1370.0	1498.6	1681.4	1900.3	1828.0	1715.6	1711.5	1663.4
72.5°	1534.8	1157.0	1257.6	1370.0	1552.8	1810.0	1747.7	1621.1	1554.9	1504.6
73°	1464.4	1133.0	1229.3	1341.9	1524.7	1787.8	1725.6	1594.9	1520.7	1474.5
75°	1211.3	1028.5	1116.9	1217.3	1404.2	1683.3	1617.1	1476.5	1382.1	1353.9
77.5°	952.2	879.9	964.2	1054.7	1237.5	1530.7	1456.4	1321.8	1269.6	1245.4
80°	705.0	729.2	803.5	883.9	1072.7	1368.0	1301.8	1167.1	1400.1	1341.9
82.5°	496.1	552.5	620.7	693.0	900.0	1209.3	1128.9	990.3	1024.6	851.7
85°	293.3	361.5	425.9	488.2	648.9	1002.5	932.1	789.5	646.9	616.7
87.5°	170.8	200.9	218.9	283.2	446.0	755.3	656.8	584.5	335.4	227.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)