

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: P268877

Luminaire Tested: **GAN-AF-09-LED-U-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45910.8 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

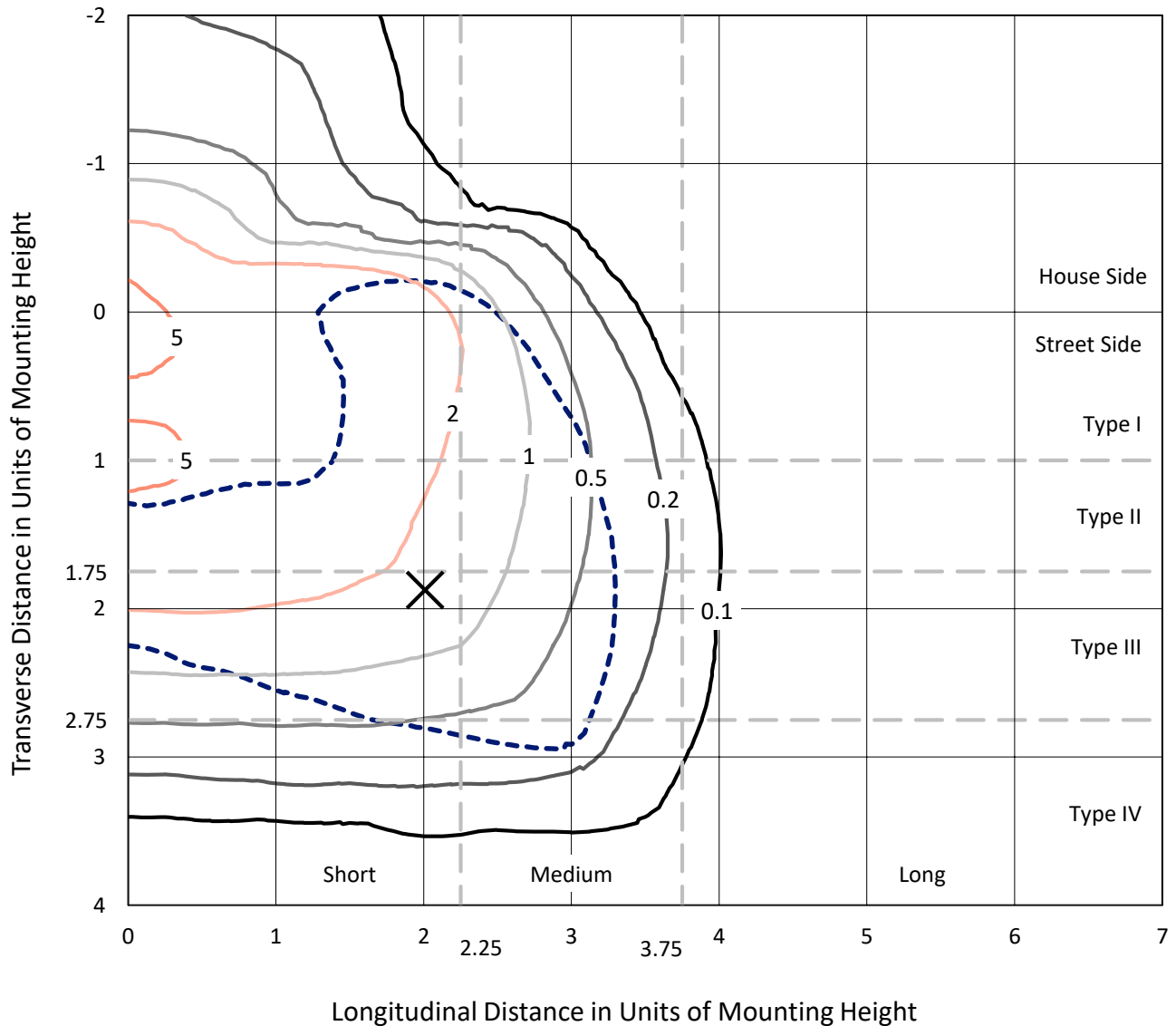
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

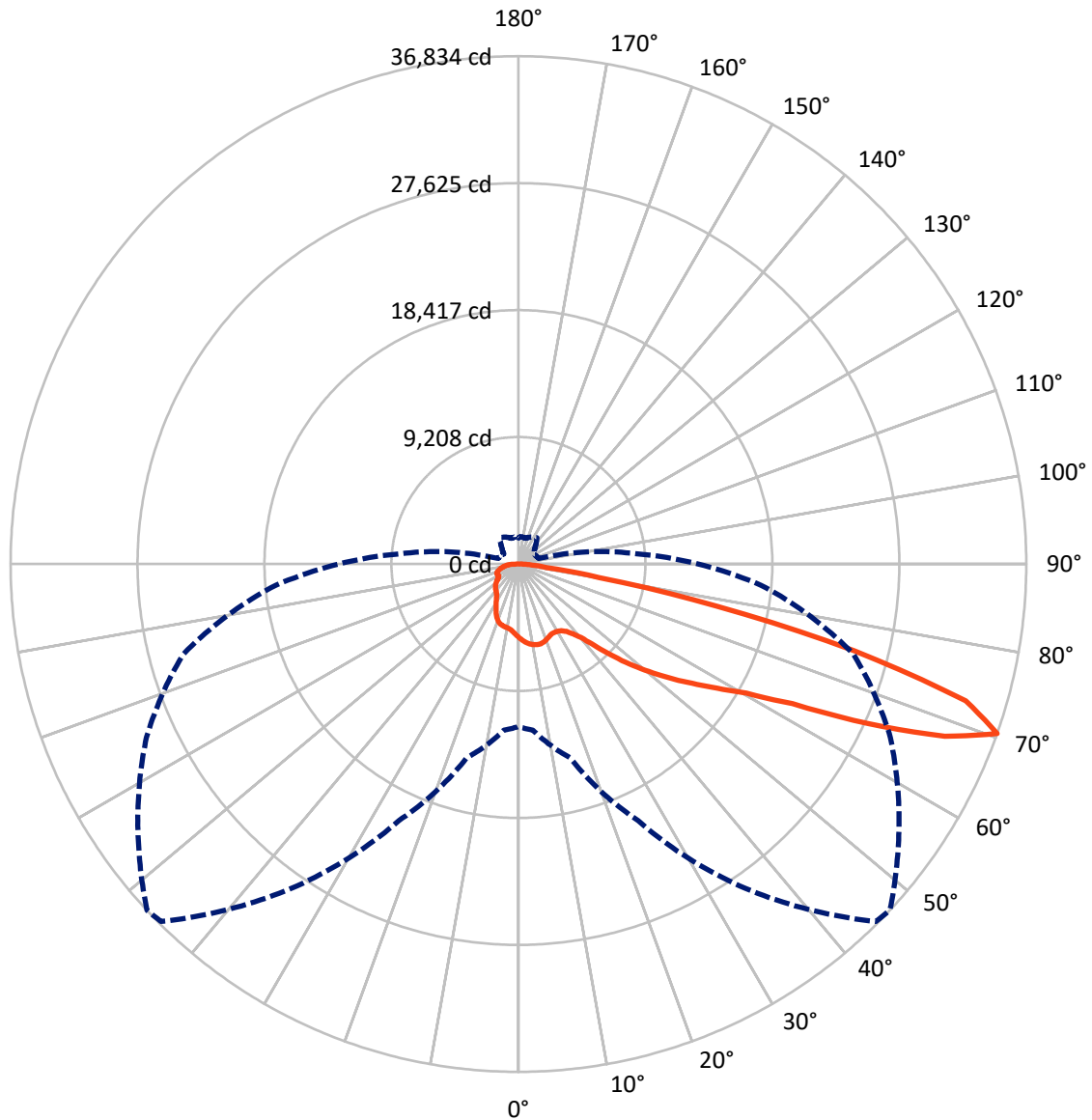
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9577.9	0.0	9577.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	36332.9	0.0	36332.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	45910.8	0.0	45910.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.4	1.1
10°-20°	1497.5	3.3
20°-30°	2211.3	4.8
30°-40°	3214.1	7.0
40°-50°	5784.3	12.6
50°-60°	10020.7	21.8
60°-70°	14302.4	31.2
70°-80°	7342.1	16.0
80°-90°	1027.9	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°	45910.8	100.0
0°-180°	45910.8	100.0

Coefficient of Utilization



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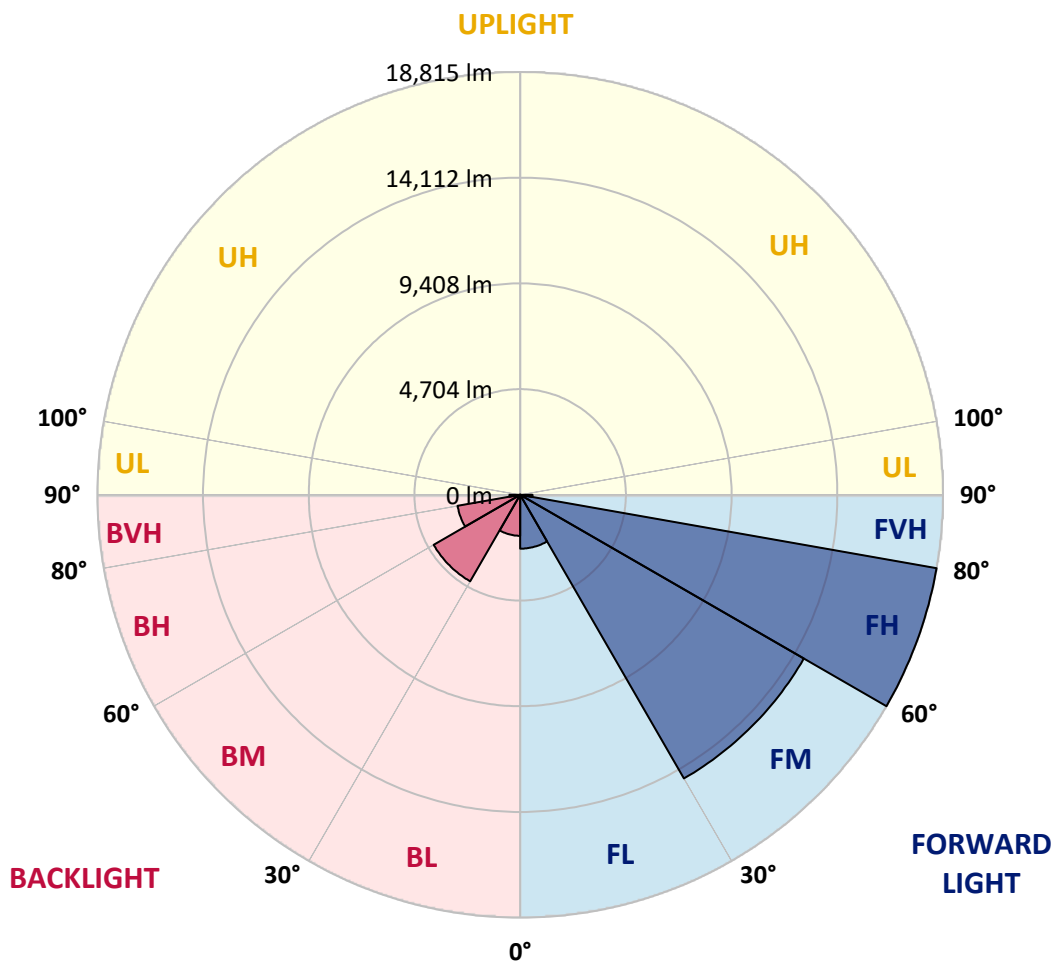
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2395.5	5.2			
FM	(30°-60°)	14573.4	31.7			
FH	(60°-80°)	18815.5	41.0			G5
FVH	(80°-90°)	548.5	1.2			G4/750
BL	(0°-30°)	1823.7	4.0	B3/2500		
BM	(30°-60°)	4445.8	9.7	B3/5000		
BH	(60°-80°)	2829.0	6.2	B4/5000		G4/5000
BVH	(80°-90°)	479.4	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0
2.5°	5639.7	5628.6	5624.2	5615.2	5604.0	5548.2	5537.1	5496.8	5440.9	5383.0	5322.5
5°	6010.6	6008.4	5983.7	5939.1	5867.5	5744.8	5715.7	5617.5	5485.7	5358.3	5231.0
7.5°	6336.6	6316.5	6269.6	6180.2	6055.2	5887.8	5847.4	5711.2	5530.3	5356.1	5184.1
10°	6575.7	6564.5	6461.8	6338.9	6175.8	5990.4	5943.5	5791.6	5592.8	5371.8	5157.3
12.5°	6711.9	6689.6	6571.2	6423.8	6229.4	6048.5	6001.7	5847.4	5624.2	5371.8	5119.4
15°	6703.0	6687.3	6568.9	6408.1	6211.6	6053.0	6010.6	5856.4	5617.5	5349.3	5070.3
17.5°	6524.3	6530.9	6430.4	6271.8	6111.1	5990.4	5952.4	5809.5	5572.7	5304.8	5012.2
20°	6211.6	6242.9	6175.8	6035.2	5945.8	5863.1	5838.5	5717.9	5503.6	5240.0	4949.7
22.5°	5898.9	5927.9	5901.1	5782.7	5769.4	5720.1	5706.8	5619.6	5443.2	5199.7	4911.7
25°	5668.8	5695.7	5691.1	5588.4	5628.6	5626.4	5615.2	5572.7	5429.9	5199.7	4918.3
27.5°	5606.3	5615.2	5606.3	5512.4	5568.4	5613.0	5604.0	5597.3	5470.0	5264.5	5003.2
30°	5820.7	5807.4	5738.1	5548.2	5599.6	5662.0	5653.2	5657.6	5590.6	5434.2	5193.0
32.5°	6676.2	6615.8	6397.0	5863.1	5726.9	5760.4	5764.9	5838.5	5849.8	5695.7	5487.8
35°	7956.0	7888.9	7605.3	6707.5	6122.2	6006.1	6006.1	6117.7	6184.8	6070.8	5945.8
37.5°	9311.8	9238.1	9086.1	7877.9	6953.2	6432.8	6421.5	6499.6	6595.7	6622.6	6653.8
40°	10853.0	10774.8	10817.2	9191.2	8112.4	7172.0	7013.4	6957.6	7216.7	7388.6	7638.8
42.5°	12539.4	12503.6	12519.1	10654.2	9432.5	8277.6	8052.0	7764.0	8076.7	8382.7	8907.6
45°	14100.5	14131.9	14116.1	12220.0	10902.1	9626.6	9387.6	8829.4	9135.4	9660.3	10515.6
47.5°	15467.5	15338.0	15539.1	13930.8	12548.2	11136.6	10841.7	10093.5	10404.0	11051.8	12499.0
50°	17127.1	17109.2	16814.4	16213.5	14538.3	12653.2	12266.7	11400.2	11882.6	12782.7	14998.5
52.5°	18871.5	18547.7	18277.4	17989.2	16649.0	14207.8	13734.2	12702.4	13620.3	14752.8	18045.1
55°	19228.8	19083.7	19418.8	19903.3	18683.8	15822.7	15270.9	14335.2	15577.0	17004.1	21558.5
57.5°	19992.8	19990.5	20682.9	21547.4	20779.0	17535.9	16979.7	16307.3	17777.0	19583.9	25288.5
60°	20508.7	20653.9	21940.5	23617.8	22836.1	19514.8	19003.3	18583.3	20278.6	22467.6	28764.0
62.5°	20779.0	20975.6	22731.2	24457.7	25744.2	22809.3	22297.8	21692.5	23588.9	25630.4	30796.6
65°	19655.5	20041.8	22608.3	25183.5	28290.4	28149.7	27919.7	26856.4	27727.7	28129.6	30061.7
67.5°	16546.3	16941.7	19930.2	24506.8	30108.6	33300.3	33349.5	31533.7	30273.9	28344.1	25275.2
70°	11788.7	12099.4	14571.9	20546.7	28723.8	36666.4	36833.9	33689.0	29766.9	25136.6	17658.6
72.5°	5597.3	5787.2	8128.0	13372.3	22793.7	33595.3	33919.1	30937.3	25310.9	18610.1	9633.5
75°	2057.1	2115.1	2747.2	5689.0	13220.5	24774.8	25156.8	22177.1	16778.6	9264.8	3669.8
77.5°	1233.0	1270.9	1541.1	2401.1	5199.7	14160.9	14725.9	12061.4	7332.9	3448.7	1804.8
80°	862.2	889.0	1105.6	1494.3	2457.0	5396.3	5898.9	4922.8	2921.5	2182.3	1313.3
82.5°	583.0	596.4	777.3	1009.5	1632.8	1927.6	2079.4	2188.9	1970.1	1623.7	833.1
85°	381.9	395.3	527.1	665.6	1038.6	996.2	1018.5	1288.8	1438.5	1103.4	462.4
87.5°	218.8	227.8	317.2	355.1	509.2	422.2	426.6	678.9	920.3	743.7	281.3
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°	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0
2.5°	5306.9	5277.9	5213.1	5173.0	5135.0	5126.1	5110.4	5108.2	5106.0	5106.0	5099.3
5°	5188.6	5139.5	5039.0	4983.1	4936.1	4931.8	4929.4	4940.7	4945.1	4949.7	4943.0
7.5°	5112.7	5045.6	4920.6	4840.2	4784.4	4770.9	4793.3	4844.6	4878.2	4891.5	4884.9
10°	5065.7	4983.1	4837.9	4750.9	4704.0	4697.1	4726.3	4786.6	4855.8	4882.6	4880.3
12.5°	5012.2	4918.3	4764.3	4672.7	4645.9	4659.1	4697.1	4753.0	4824.5	4866.9	4869.3
15°	4958.6	4849.1	4690.5	4610.1	4599.0	4616.7	4652.5	4695.0	4750.9	4793.3	4797.7
17.5°	4893.7	4779.8	4621.3	4538.6	4529.8	4538.6	4540.8	4563.2	4599.0	4639.1	4650.3
20°	4824.5	4708.3	4543.1	4460.4	4420.2	4384.4	4344.4	4348.8	4360.0	4400.2	4409.2
22.5°	4775.4	4659.1	4482.8	4368.8	4261.6	4154.4	4074.1	4062.9	4067.3	4100.9	4112.0
25°	4779.8	4657.1	4467.1	4270.6	4036.1	3864.1	3756.9	3739.0	3736.8	3761.4	3777.0
27.5°	4866.9	4744.0	4525.2	4170.1	3790.4	3535.8	3421.9	3408.3	3390.6	3397.3	3415.1
30°	5061.3	4947.3	4665.9	4067.3	3524.6	3214.1	3095.6	3082.4	3057.8	3046.6	3059.9
32.5°	5378.4	5284.5	4871.4	3969.2	3258.8	2939.3	2818.8	2789.7	2774.1	2760.8	2771.9
35°	5905.5	5865.4	5146.2	3861.9	3024.2	2727.3	2617.8	2573.0	2550.7	2575.4	2593.1
37.5°	6732.0	6754.4	5505.7	3694.3	2843.3	2586.5	2495.0	2443.5	2410.1	2430.2	2450.2
40°	7902.4	7918.0	5903.3	3457.5	2687.0	2503.8	2405.5	2358.7	2311.8	2276.0	2273.8
42.5°	9439.1	9280.5	6294.2	3200.8	2506.1	2452.5	2343.0	2285.0	2213.5	2115.1	2095.0
45°	11261.7	10705.6	6591.3	2905.8	2302.8	2389.9	2273.8	2193.4	2081.7	1974.5	1963.3
47.5°	13361.2	12235.5	6736.5	2599.9	2113.0	2298.4	2188.9	2061.6	1920.8	1867.2	1860.6
50°	15925.4	14051.4	6805.6	2302.8	1947.6	2177.8	2066.0	1916.4	1798.0	1786.9	1780.1
52.5°	18844.6	16235.8	6828.0	2059.4	1811.4	2021.4	1965.5	1820.3	1726.5	1735.4	1735.4
55°	21900.1	18491.8	6524.3	1882.8	1686.4	1860.6	1898.6	1782.3	1704.3	1739.9	1753.3
57.5°	24705.5	20490.8	5568.4	1746.7	1568.0	1737.7	1874.0	1818.1	1764.5	1909.6	1918.6
60°	26858.8	21672.4	4159.0	1623.7	1480.9	1695.3	1938.7	1954.4	1967.7	2313.9	2360.8
62.5°	27309.9	21279.3	2858.9	1527.7	1440.6	1731.0	2057.1	2059.4	2043.7	2285.0	2313.9
65°	25239.4	18793.4	2079.4	1474.2	1407.1	1795.8	2157.5	2110.7	2008.0	2191.1	2137.5
67.5°	20044.2	14158.6	1731.0	1434.0	1358.0	1791.3	2264.8	2157.5	1987.9	2146.5	2059.4
70°	13010.6	8561.2	1541.1	1400.5	1299.9	1706.4	2327.4	2153.1	1929.7	1996.8	1894.0
72.5°	6347.9	3828.3	1413.8	1351.3	1239.7	1588.1	2325.2	2113.0	1869.6	1865.1	1809.1
75°	2483.8	1753.3	1297.7	1277.6	1136.8	1454.0	2262.7	2055.0	1798.0	1726.5	1706.4
77.5°	1454.0	1250.8	1150.3	1168.2	1014.0	1320.0	2171.1	1954.4	1699.8	1614.9	1592.5
80°	1058.7	935.9	980.5	1009.5	866.7	1186.0	2048.1	1831.6	1590.3	1632.8	1601.5
82.5°	678.9	603.0	795.2	824.1	721.5	1049.8	1914.2	1702.0	1436.2	1304.3	1273.2
85°	346.1	381.9	592.0	627.6	556.2	862.2	1751.2	1530.1	1261.9	1085.5	1103.4
87.5°	194.4	261.3	377.5	422.2	393.1	663.4	1420.6	1261.9	1029.6	837.6	737.1
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)