

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: P193315

Luminaire Tested: **GAN-AF-07-LED-U-T4W-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193315
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-07-LED-U-T4W-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 40435.7 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

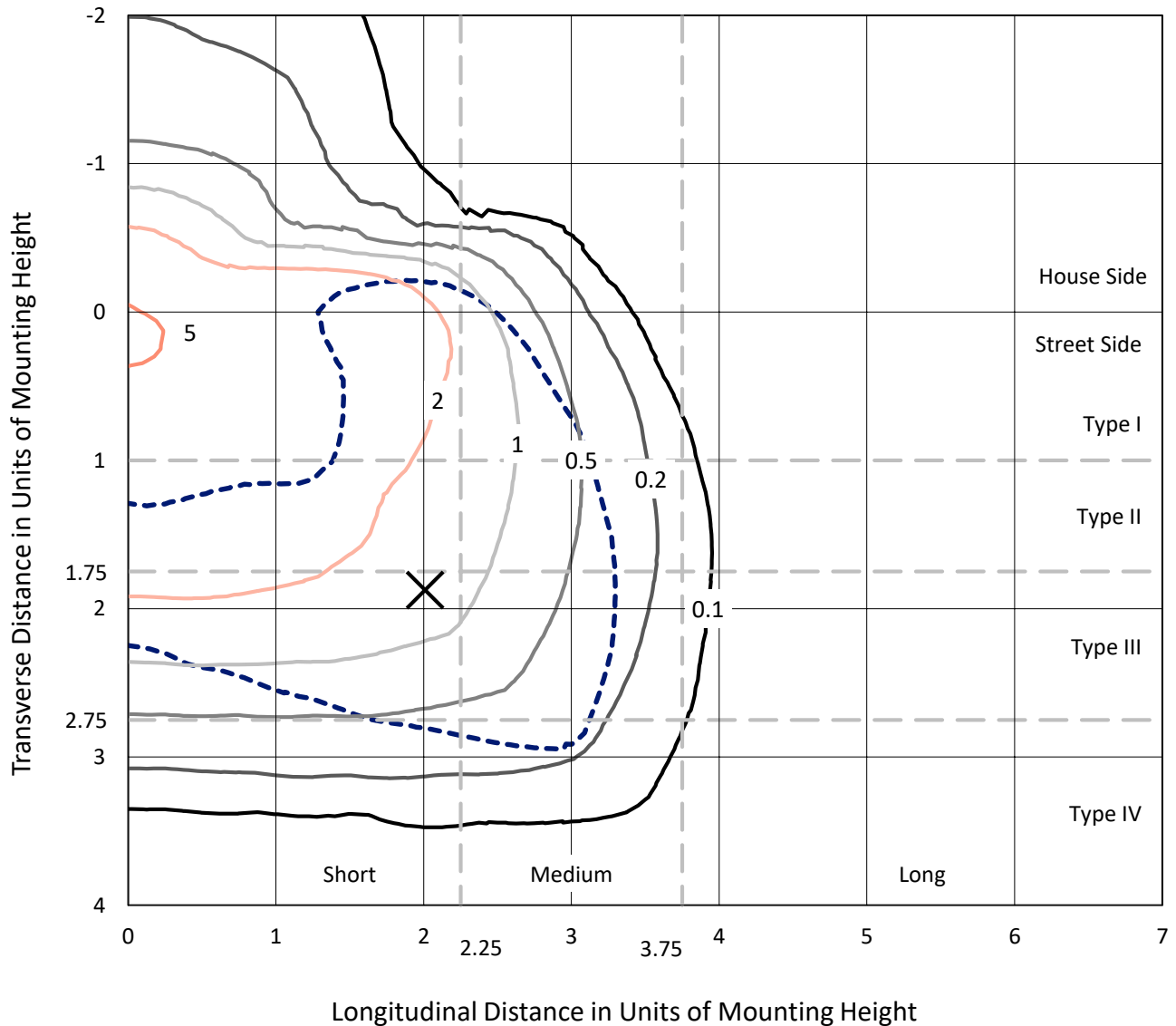
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

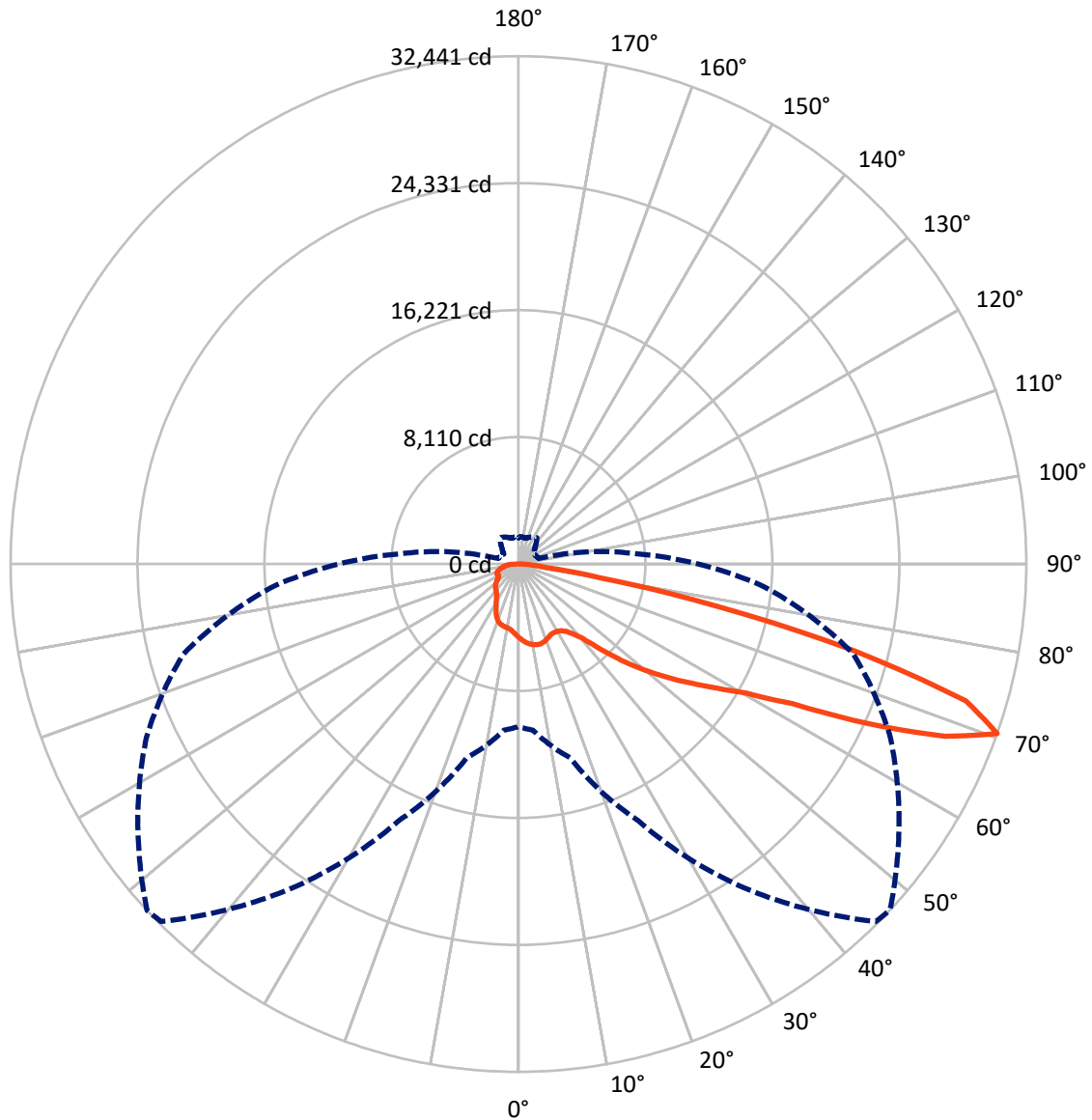
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 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	8435.7	0.0	8435.7
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	32000.1	0.0	32000.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	40435.7	0.0	40435.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.6	1.1
10°-20°	1318.9	3.3
20°-30°	1947.6	4.8
30°-40°	2830.8	7.0
40°-50°	5094.5	12.6
50°-60°	8825.7	21.8
60°-70°	12596.8	31.2
70°-80°	6466.5	16.0
80°-90°	905.3	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°	40435.7	100.0
0°-180°	40435.7	100.0

Coefficient of Utilization



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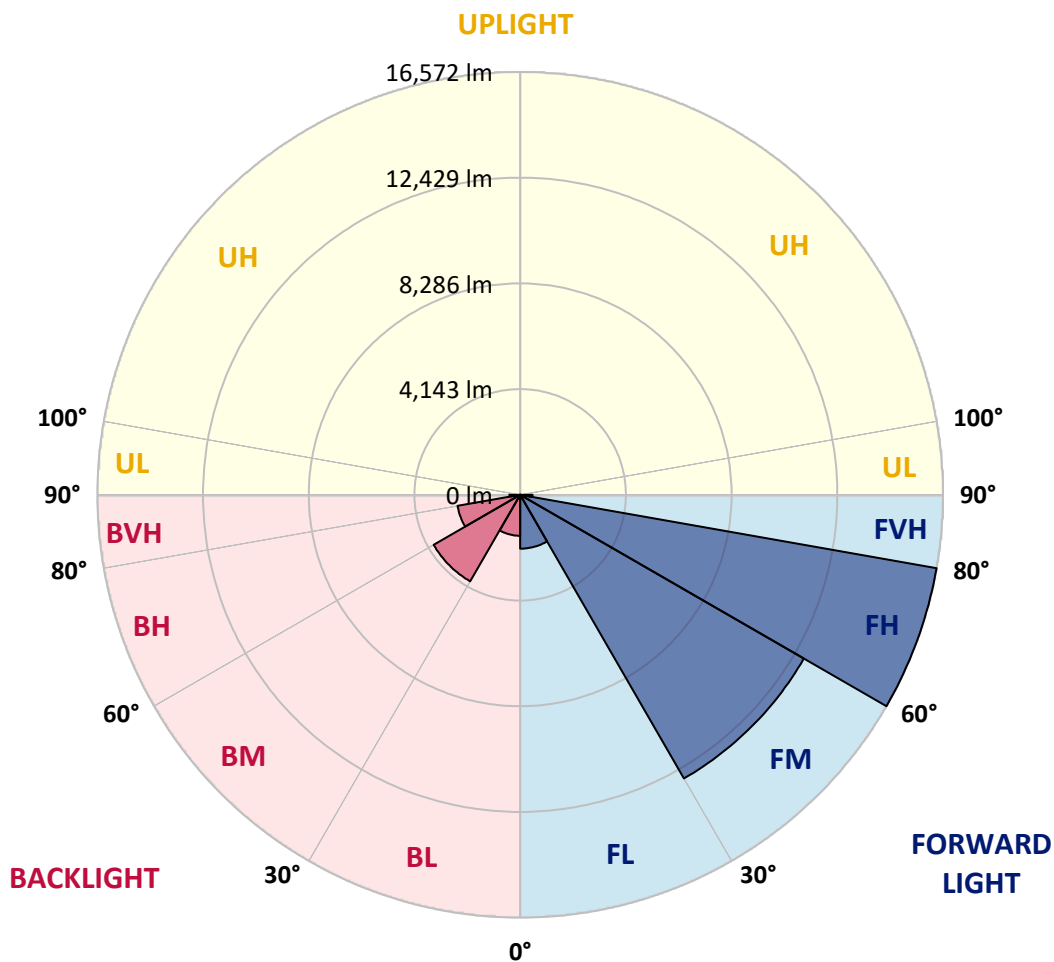
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2109.9	5.2			
FM	(30°-60°)	12835.4	31.7			
FH	(60°-80°)	16571.7	41.0			G5
FVH	(80°-90°)	483.1	1.2			G3/500
BL	(0°-30°)	1606.2	4.0	B3/2500		
BM	(30°-60°)	3915.6	9.7	B3/5000		
BH	(60°-80°)	2491.7	6.2	B3/2500		G3/2500
BVH	(80°-90°)	422.2	1.0			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°	47°	55°	65°	75°	85°
0°	4691.8	4691.8	4691.8	4691.8	4691.8	4691.8	4691.8	4691.8	4691.8	4691.8	4691.8
2.5°	4967.3	4957.4	4953.5	4945.6	4935.8	4886.5	4876.7	4841.3	4792.1	4741.0	4687.9
5°	5293.7	5291.8	5270.1	5230.8	5167.9	5059.7	5034.1	4947.6	4831.5	4719.4	4607.3
7.5°	5581.0	5563.3	5522.0	5443.3	5333.2	5185.6	5150.2	5030.2	4870.8	4717.4	4566.0
10°	5791.5	5781.7	5691.2	5582.9	5439.4	5276.0	5234.7	5101.0	4926.0	4731.2	4542.4
12.5°	5911.5	5891.8	5787.6	5657.7	5486.6	5327.3	5285.9	5150.2	4953.5	4731.2	4508.8
15°	5903.6	5889.8	5785.6	5643.9	5470.8	5331.2	5293.7	5158.0	4947.6	4711.5	4465.5
17.5°	5746.3	5752.2	5663.6	5523.9	5382.3	5276.0	5242.6	5116.7	4908.3	4672.2	4414.4
20°	5470.8	5498.4	5439.4	5315.5	5236.7	5163.9	5142.3	5036.1	4847.2	4615.1	4359.3
22.5°	5195.4	5221.0	5197.4	5093.1	5081.3	5038.1	5026.3	4949.6	4794.1	4579.7	4325.9
25°	4992.8	5016.4	5012.5	4922.0	4957.4	4955.5	4945.6	4908.3	4782.3	4579.7	4331.8
27.5°	4937.8	4945.6	4937.8	4855.1	4904.3	4943.7	4935.8	4929.9	4817.7	4636.8	4406.5
30°	5126.6	5114.8	5053.8	4886.5	4931.9	4986.9	4979.1	4983.0	4924.0	4786.2	4573.8
32.5°	5880.0	5826.9	5634.1	5163.9	5044.0	5073.5	5077.4	5142.3	5152.1	5016.4	4833.4
35°	7007.3	6948.3	6698.3	5907.5	5392.2	5289.8	5289.8	5388.2	5447.2	5346.9	5236.7
37.5°	8201.3	8136.4	8002.5	6938.4	6124.0	5665.5	5655.7	5724.6	5809.2	5832.8	5860.3
40°	9558.6	9489.8	9527.2	8095.1	7144.9	6316.8	6177.1	6128.0	6356.0	6507.6	6727.8
42.5°	11043.9	11012.5	11026.2	9383.6	8307.5	7290.6	7091.8	6838.0	7113.5	7382.9	7845.3
45°	12419.1	12446.6	12432.8	10762.6	9601.9	8478.7	8268.2	7776.4	8046.0	8508.2	9261.7
47.5°	13623.0	13508.9	13686.0	12269.5	11051.8	9808.5	9548.8	8889.9	9163.2	9733.8	11008.5
50°	15084.6	15068.8	14809.2	14279.9	12804.6	11144.2	10804.0	10040.7	10465.6	11258.4	13209.9
52.5°	16620.9	16335.8	16097.7	15843.9	14663.5	12513.5	12096.4	11187.6	11996.1	12993.4	15893.2
55°	16935.7	16807.9	17103.0	17529.9	16455.7	13935.8	13449.9	12625.6	13719.3	14976.3	18987.5
57.5°	17608.5	17606.6	18216.4	18977.7	18301.0	15444.6	14954.8	14362.6	15657.1	17248.5	22272.8
60°	18063.0	18190.8	19323.9	20801.4	20112.8	17187.6	16737.1	16367.2	17860.4	19788.2	25333.8
62.5°	18301.0	18474.1	20020.3	21541.0	22674.1	20089.2	19638.7	19105.6	20775.7	22573.8	27123.9
65°	17311.5	17651.8	19912.2	22180.4	24916.8	24792.8	24590.2	23653.7	24421.0	24775.1	26476.7
67.5°	14573.1	14921.3	17553.5	21584.2	26518.1	29329.2	29372.5	27773.1	26663.6	24964.0	22261.0
70°	10382.9	10656.4	12834.1	18096.4	25298.3	32293.8	32441.4	29671.5	26217.1	22138.9	15552.8
72.5°	4929.9	5097.1	7158.6	11777.7	20075.4	29588.8	29874.1	27247.8	22292.5	16390.8	8484.6
75°	1811.8	1863.0	2419.6	5010.5	11644.0	21820.3	22156.6	19532.5	14777.8	8160.0	3232.1
77.5°	1085.9	1119.4	1357.3	2114.7	4579.7	12472.2	12969.8	10622.9	6458.4	3037.4	1589.5
80°	759.4	783.0	973.7	1316.0	2164.0	4752.8	5195.4	4335.7	2573.2	1922.0	1156.7
82.5°	513.4	525.2	684.6	889.2	1438.1	1697.7	1831.5	1927.9	1735.0	1430.2	733.7
85°	336.4	348.2	464.3	586.1	914.7	877.4	897.0	1135.1	1266.9	971.8	407.2
87.5°	192.8	200.7	279.3	312.8	448.5	371.8	375.8	598.0	810.4	655.1	247.9
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°	4691.8	4691.8	4691.8	4691.8	4691.8	4691.8	4691.8	4691.8	4691.8	4691.8	4691.8
2.5°	4674.1	4648.6	4591.5	4556.1	4522.7	4514.8	4500.9	4499.0	4497.0	4497.0	4491.1
5°	4569.9	4526.6	4438.0	4388.8	4347.5	4343.6	4341.6	4351.5	4355.4	4359.3	4353.4
7.5°	4502.9	4443.9	4333.8	4263.0	4213.8	4202.0	4221.7	4266.9	4296.4	4308.2	4302.3
10°	4461.6	4388.8	4261.0	4184.3	4143.0	4137.1	4162.7	4215.8	4276.7	4300.3	4298.4
12.5°	4414.4	4331.8	4196.1	4115.4	4091.8	4103.6	4137.1	4186.3	4249.2	4286.6	4288.5
15°	4367.2	4270.8	4131.2	4060.3	4050.5	4066.2	4097.7	4135.1	4184.3	4221.7	4225.6
17.5°	4310.2	4209.9	4070.1	3997.4	3989.5	3997.4	3999.3	4019.0	4050.5	4085.9	4095.7
20°	4249.2	4146.9	4001.3	3928.5	3893.1	3861.7	3826.3	3830.2	3840.0	3875.4	3883.3
22.5°	4205.9	4103.6	3948.2	3847.9	3753.5	3659.0	3588.2	3578.3	3582.3	3611.8	3621.6
25°	4209.9	4101.6	3934.4	3761.4	3554.7	3403.3	3308.8	3293.1	3291.1	3312.7	3326.5
27.5°	4286.6	4178.4	3985.6	3672.7	3338.4	3114.1	3013.8	3002.0	2986.3	2992.2	3007.9
30°	4457.7	4357.4	4109.5	3582.3	3104.3	2830.8	2726.6	2714.8	2693.1	2683.3	2695.1
32.5°	4737.1	4654.5	4290.5	3495.7	2870.1	2588.9	2482.6	2457.0	2443.2	2431.4	2441.3
35°	5201.3	5165.9	4532.5	3401.3	2663.6	2401.9	2305.6	2266.2	2246.6	2268.2	2283.9
37.5°	5929.2	5948.8	4849.2	3253.7	2504.2	2278.0	2197.4	2152.1	2122.6	2140.3	2158.1
40°	6960.1	6973.8	5199.3	3045.3	2366.5	2205.3	2118.6	2077.3	2036.0	2004.6	2002.6
42.5°	8313.4	8173.8	5543.6	2819.0	2207.2	2160.0	2063.6	2012.4	1949.5	1863.0	1845.3
45°	9918.7	9428.8	5805.3	2559.4	2028.2	2104.9	2002.6	1931.8	1833.5	1739.0	1729.1
47.5°	11767.9	10776.4	5933.1	2289.8	1861.0	2024.2	1927.9	1815.8	1691.8	1644.6	1638.7
50°	14026.2	12375.8	5994.1	2028.2	1715.4	1918.0	1819.7	1687.8	1583.6	1573.8	1567.9
52.5°	16597.3	14299.7	6013.7	1813.8	1595.4	1780.4	1731.1	1603.3	1520.7	1528.5	1528.5
55°	19288.5	16286.6	5746.3	1658.3	1485.3	1638.7	1672.1	1569.8	1501.0	1532.5	1544.3
57.5°	21759.3	18047.2	4904.3	1538.4	1381.0	1530.5	1650.5	1601.3	1554.1	1681.9	1689.8
60°	23655.7	19087.9	3662.9	1430.2	1304.2	1493.1	1707.5	1721.3	1733.1	2038.0	2079.3
62.5°	24053.1	18741.7	2518.0	1345.5	1268.8	1524.6	1811.8	1813.8	1800.0	2012.4	2038.0
65°	22229.6	16552.1	1831.5	1298.3	1239.3	1581.6	1900.3	1859.0	1768.6	1929.8	1882.6
67.5°	17653.8	12470.2	1524.6	1262.9	1196.1	1577.7	1994.7	1900.3	1750.8	1890.5	1813.8
70°	11459.0	7540.3	1357.3	1233.4	1144.9	1503.0	2049.8	1896.4	1699.6	1758.6	1668.2
72.5°	5590.8	3371.8	1245.2	1190.2	1091.8	1398.7	2047.8	1861.0	1646.5	1642.6	1593.4
75°	2187.6	1544.3	1143.0	1125.3	1001.4	1280.6	1992.8	1809.9	1583.6	1520.7	1503.0
77.5°	1280.6	1101.7	1013.2	1028.9	893.0	1162.6	1912.1	1721.3	1497.1	1422.3	1402.7
80°	932.4	824.3	863.5	889.2	763.2	1044.6	1804.0	1613.1	1400.7	1438.1	1410.5
82.5°	598.0	531.1	700.4	725.9	635.5	924.6	1685.9	1499.0	1264.9	1148.9	1121.3
85°	305.0	336.4	521.2	552.8	489.8	759.4	1542.3	1347.5	1111.5	956.0	971.8
87.5°	171.1	230.2	332.4	371.8	346.3	584.2	1251.1	1111.5	906.9	737.7	649.2
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)