

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: P322864

Luminaire Tested: **GAN-SA0D-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50691 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 640
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

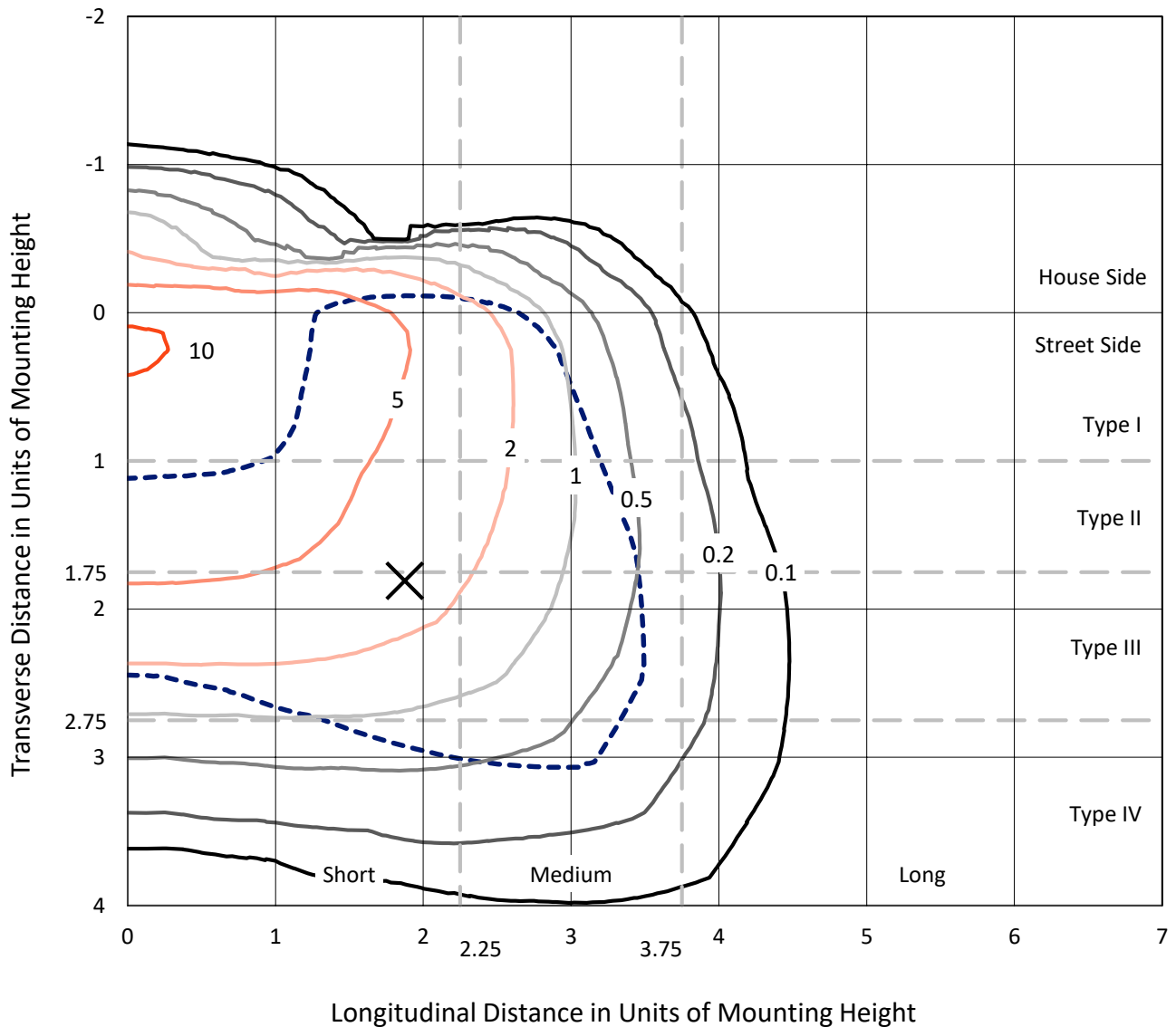




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Iso-Footcandle Lines of Horizontal Illumination

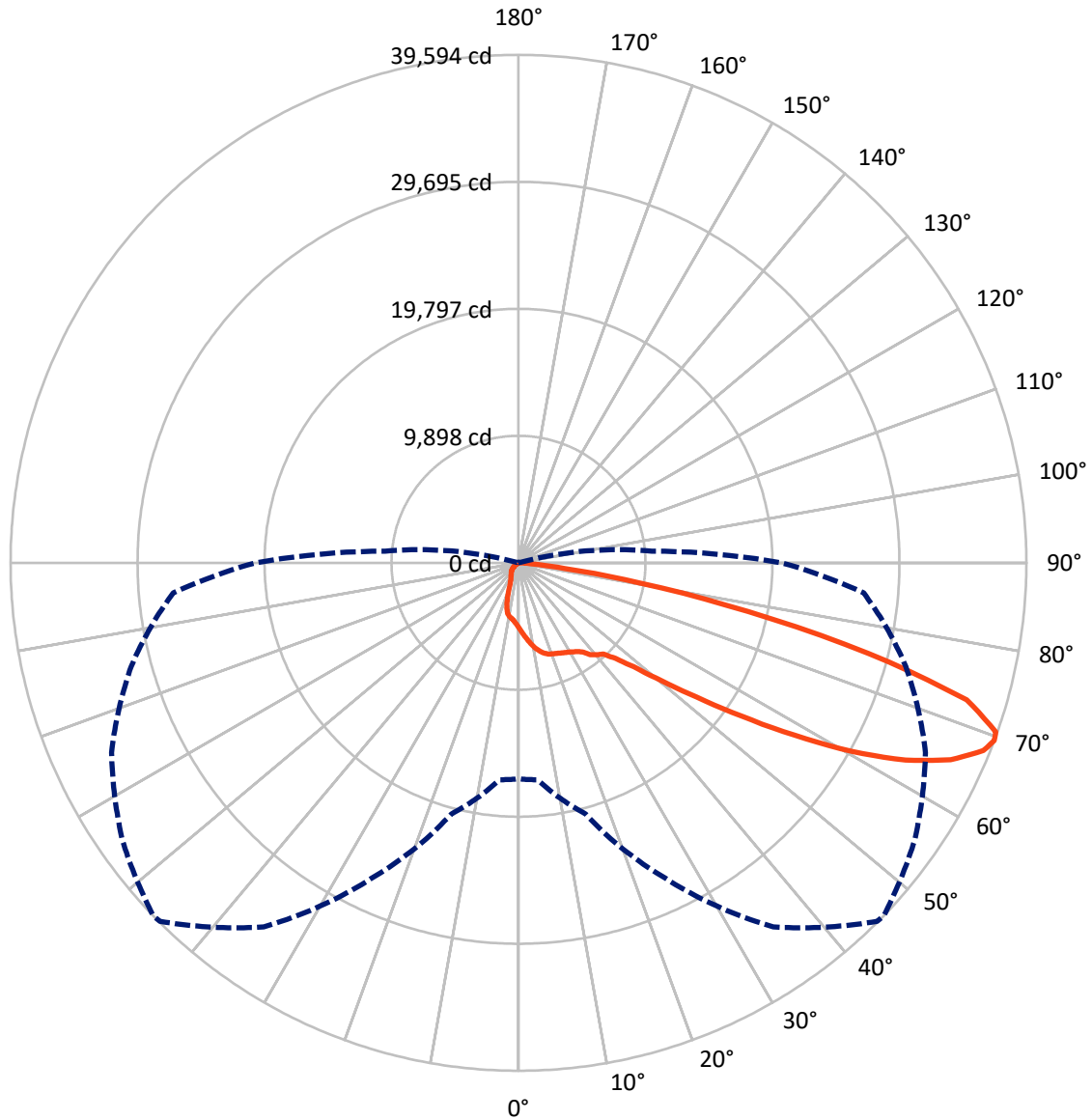
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5202.3	0.0	5202.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	45488.7	0.0	45488.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	50691.0	0.0	50691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.5	1.0
10°-20°	1533.7	3.0
20°-30°	2412.0	4.8
30°-40°	3458.8	6.8
40°-50°	5978.1	11.8
50°-60°	11810.3	23.3
60°-70°	16505.9	32.6
70°-80°	7974.1	15.7
80°-90°	512.5	1.0
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°	50691.0	100.0
0°-180°	50691.0	100.0

Coefficient of Utilization

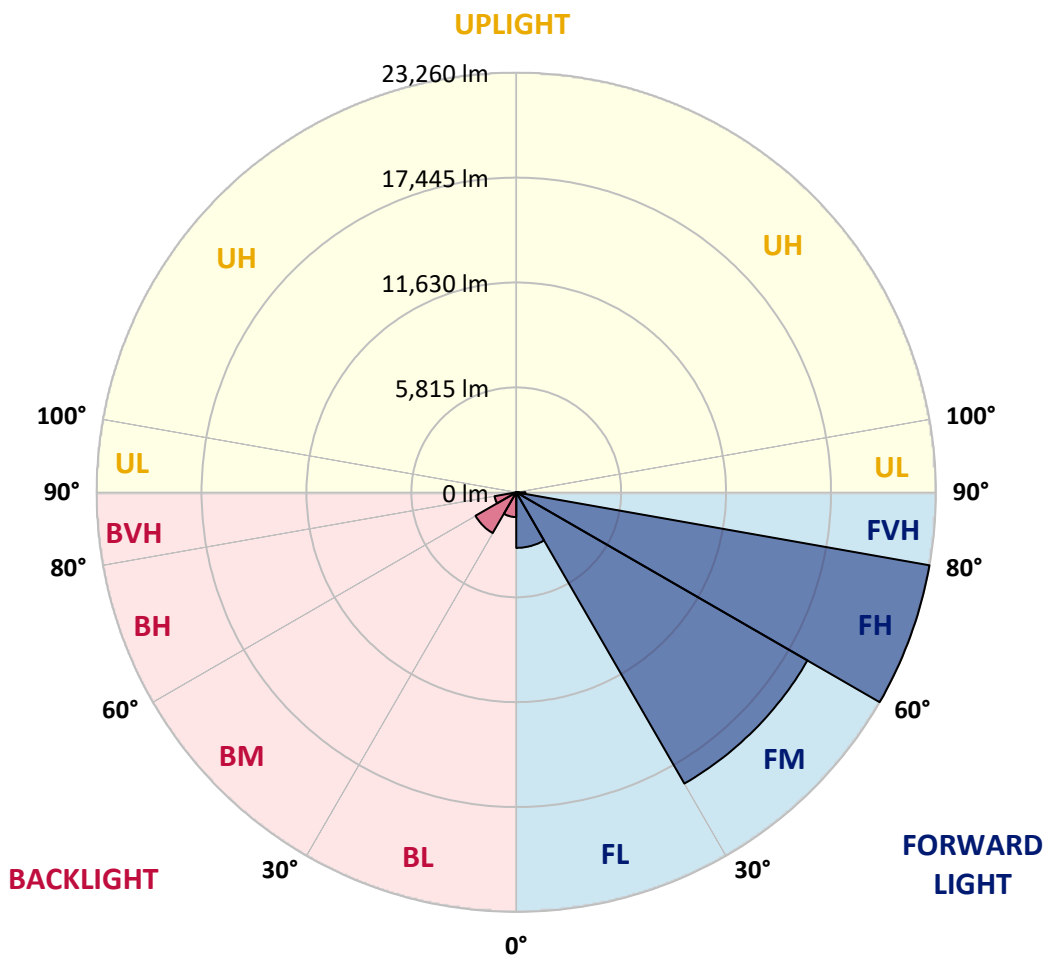


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3080.1	6.1			
FM (30°-60°)	18640.2	36.8			
FH (60°-80°)	23260.2	45.9			G5
FVH (80°-90°)	508.2	1.0			G4/750
BL (0°-30°)	1371.1	2.7	B3/2500		
BM (30°-60°)	2607.0	5.1	B3/5000		
BH (60°-80°)	1219.8	2.4	B3/2500		G3/2500
BVH (80°-90°)	4.3	0.0			G0/10
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°	46°	55°	65°	75°	85°
0°	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0
2.5°	5642.3	5635.2	5601.9	5587.7	5506.9	5459.3	5440.3	5380.9	5295.3	5209.8	5114.7
5°	6284.0	6281.7	6219.9	6160.5	6008.3	5865.7	5839.6	5701.7	5509.2	5328.6	5148.0
7.5°	6940.0	6909.1	6847.3	6733.2	6512.2	6284.0	6262.7	6067.8	5794.4	5533.0	5273.9
10°	7496.2	7477.2	7396.3	7222.8	6963.8	6704.7	6678.6	6438.5	6129.6	5808.7	5478.3
12.5°	7928.7	7914.5	7807.5	7591.2	7315.5	7047.0	7011.3	6797.4	6467.1	6108.2	5718.4
15°	8192.6	8185.4	8054.7	7824.2	7553.2	7320.3	7289.4	7101.6	6795.0	6419.5	5979.8
17.5°	8254.3	8256.7	8121.2	7888.3	7664.9	7498.5	7474.8	7332.2	7075.5	6702.3	6241.3
20°	8116.5	8145.0	8023.8	7821.8	7683.9	7596.0	7577.0	7491.4	7275.1	6923.4	6450.4
22.5°	7921.6	7935.9	7852.7	7717.2	7660.2	7676.8	7667.3	7619.8	7436.8	7113.5	6657.2
25°	7802.8	7802.8	7752.9	7638.8	7676.8	7779.0	7781.4	7771.9	7626.9	7346.4	6909.1
27.5°	7798.0	7783.8	7726.7	7641.2	7745.7	7902.6	7912.1	7976.3	7886.0	7629.3	7222.8
30°	7988.2	7971.5	7850.3	7738.6	7871.7	8040.4	8064.2	8204.4	8159.3	7935.9	7572.2
32.5°	8432.6	8373.2	8104.6	7921.6	8021.4	8223.4	8254.3	8477.8	8549.1	8313.8	7909.7
35°	9041.0	8853.3	8465.9	8268.6	8278.1	8489.6	8518.2	8846.1	9057.7	8660.8	8171.2
37.5°	9880.0	9787.3	9157.5	8629.9	8672.6	8993.5	9076.7	9433.2	9373.8	8850.9	8468.3
40°	11719.6	11574.6	10904.4	9642.3	9050.5	9402.3	9428.4	9618.6	9623.3	9281.1	9086.2
42.5°	14224.7	14165.2	13459.4	11479.6	9794.5	9675.6	9723.2	10044.0	10402.9	10189.0	10179.5
45°	16998.3	16967.4	16218.7	13918.1	11298.9	10571.6	10631.1	11061.3	11748.1	11795.7	12097.5
47.5°	19230.0	19215.8	18785.6	16639.4	13602.0	12090.4	12109.4	12565.7	13773.1	14369.6	14852.1
50°	21264.5	21333.4	20993.6	19584.2	16739.2	14469.5	14424.3	14728.5	16667.9	17644.8	18243.7
52.5°	24092.8	24190.2	23237.2	22331.7	20031.0	17421.4	17385.7	17704.2	20147.4	20879.5	20986.4
55°	26590.7	26424.4	25670.9	25409.5	24045.3	21067.2	21057.7	21338.2	23512.9	23824.2	24021.5
57.5°	27693.5	27629.4	27993.0	28591.9	28249.7	25376.2	25354.8	25140.9	26524.2	26557.5	27163.5
60°	28389.9	28468.3	29583.0	31429.7	32283.0	30013.2	29875.4	28570.5	29400.0	29326.3	29975.2
62.5°	27867.0	28021.5	30027.5	33105.3	35301.4	34060.8	33865.9	31712.6	31857.5	31603.2	32206.9
65°	25091.0	25331.1	28618.1	32789.2	36798.7	37224.2	37026.9	34486.2	33808.8	33390.5	33055.4
67.5°	20373.2	20515.8	23947.8	30039.4	36123.8	39111.3	39070.9	36917.6	35282.4	33088.7	30488.6
69°	16836.7	16976.9	20280.5	27144.5	34638.3	39515.3	39593.8	37697.1	35001.9	31253.9	27013.8
70°	14260.3	14410.0	17487.9	24663.2	32915.2	39327.6	39467.8	37623.5	34198.6	29129.1	23964.5
72.5°	7479.5	7607.9	10766.5	16991.2	26833.2	36111.9	36537.3	34443.4	28988.8	21155.2	14170.0
75°	2350.6	2424.3	4204.4	8881.8	18372.0	28078.6	28176.0	27018.5	20584.8	11636.4	5901.4
77.5°	896.0	874.6	1399.9	3272.7	9288.2	17680.4	18277.0	16884.2	10802.2	4114.1	1361.9
80°	482.5	484.9	727.3	1354.7	3973.9	9086.2	9590.1	8183.0	3838.4	1283.4	313.7
82.5°	209.2	218.7	408.8	717.8	1825.3	3351.2	3603.1	2999.4	1466.4	862.7	116.5
85°	45.2	49.9	197.3	389.8	743.9	941.2	986.3	972.1	934.1	670.2	45.2
87.5°	0.0	0.0	87.9	140.2	187.8	213.9	187.8	244.8	515.7	451.6	23.8
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°	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0	5079.0
2.5°	5083.8	5041.0	4967.3	4886.5	4829.5	4770.1	4722.5	4701.2	4677.4	4660.7	4682.1
5°	5074.3	4991.1	4848.5	4710.7	4610.8	4530.0	4463.5	4437.3	4411.2	4392.2	4389.8
7.5°	5157.5	5041.0	4822.4	4620.3	4465.9	4356.5	4266.2	4228.2	4197.3	4183.0	4171.1
10°	5316.7	5167.0	4874.7	4610.8	4411.2	4225.8	4030.9	3881.2	3783.7	3738.6	3721.9
12.5°	5523.5	5335.7	4974.5	4660.7	4370.8	4014.3	3600.7	3244.2	3013.7	2937.6	2892.5
15°	5765.9	5533.0	5105.2	4724.9	4223.4	3572.2	2871.1	2405.2	2191.3	2148.6	2101.0
17.5°	5998.8	5742.2	5262.1	4736.8	3900.2	2854.4	2103.4	1787.3	1704.1	1732.6	1739.8
20°	6203.2	5948.9	5416.5	4632.2	3313.1	2141.4	1628.1	1549.6	1580.5	1635.2	1644.7
22.5°	6410.0	6148.6	5559.1	4356.5	2562.1	1625.7	1466.4	1485.4	1516.3	1571.0	1580.5
25°	6661.9	6391.0	5692.2	3850.3	1922.8	1383.3	1392.8	1421.3	1452.2	1502.1	1506.8
27.5°	6951.9	6697.6	5780.2	3191.9	1426.0	1271.5	1302.4	1345.2	1376.1	1423.7	1433.2
30°	7336.9	7101.6	5808.7	2509.8	1195.5	1171.7	1186.0	1238.3	1283.4	1326.2	1333.3
32.5°	7698.2	7500.9	5713.6	1894.2	1107.6	1079.0	1079.0	1109.9	1162.2	1202.6	1212.1
35°	8030.9	7902.6	5409.4	1385.6	1041.0	993.5	969.7	969.7	1003.0	1036.2	1045.8
37.5°	8470.6	8465.9	4917.4	1105.2	976.8	922.2	872.3	834.2	822.3	829.5	834.2
40°	9224.0	9231.2	4275.7	991.1	922.2	848.5	772.4	703.5	639.3	617.9	615.6
42.5°	10400.5	10293.6	3603.1	936.4	874.6	772.4	658.4	565.7	465.8	434.9	432.6
45°	12268.6	11634.0	2890.1	886.5	824.7	686.9	544.3	418.3	337.5	313.7	313.7
47.5°	14990.0	13395.2	2238.9	831.9	758.2	589.4	411.2	301.8	247.2	235.3	237.7
50°	17804.0	15120.7	1716.0	762.9	677.4	487.2	304.2	218.7	187.8	187.8	190.1
52.5°	20299.6	16385.1	1338.1	689.2	577.5	382.7	230.5	171.1	156.9	154.5	156.9
55°	22635.9	17200.3	1024.4	603.7	458.7	285.2	175.9	140.2	130.7	126.0	123.6
57.5°	24889.0	17604.4	767.7	487.2	332.7	206.8	140.2	118.8	109.3	102.2	99.8
60°	26388.7	17276.4	527.6	358.9	230.5	149.7	116.5	102.2	90.3	83.2	80.8
62.5°	27234.8	16380.3	339.9	259.1	164.0	111.7	92.7	85.6	68.9	61.8	61.8
65°	26892.6	14902.0	237.7	185.4	118.8	83.2	68.9	68.9	49.9	40.4	38.0
67.5°	23831.4	12589.5	180.6	137.8	85.6	61.8	52.3	59.4	30.9	19.0	19.0
69°	20504.0	10433.8	154.5	114.1	71.3	49.9	45.2	54.7	21.4	14.3	11.9
70°	17820.6	9000.6	140.2	99.8	59.4	42.8	40.4	52.3	21.4	11.9	9.5
72.5°	10662.0	5019.6	107.0	71.3	38.0	33.3	33.3	59.4	21.4	11.9	9.5
75°	4309.0	1768.3	78.4	49.9	28.5	28.5	40.4	76.1	19.0	9.5	7.1
77.5°	976.8	387.4	45.2	30.9	19.0	28.5	47.5	59.4	11.9	4.8	0.0
80°	237.7	95.1	28.5	19.0	11.9	21.4	35.7	33.3	2.4	0.0	0.0
82.5°	78.4	33.3	11.9	9.5	2.4	7.1	16.6	9.5	0.0	0.0	0.0
85°	33.3	19.0	4.8	2.4	0.0	0.0	2.4	0.0	0.0	0.0	0.0
87.5°	21.4	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)