

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: P321574

Luminaire Tested: **GAN-SA0C-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49035 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

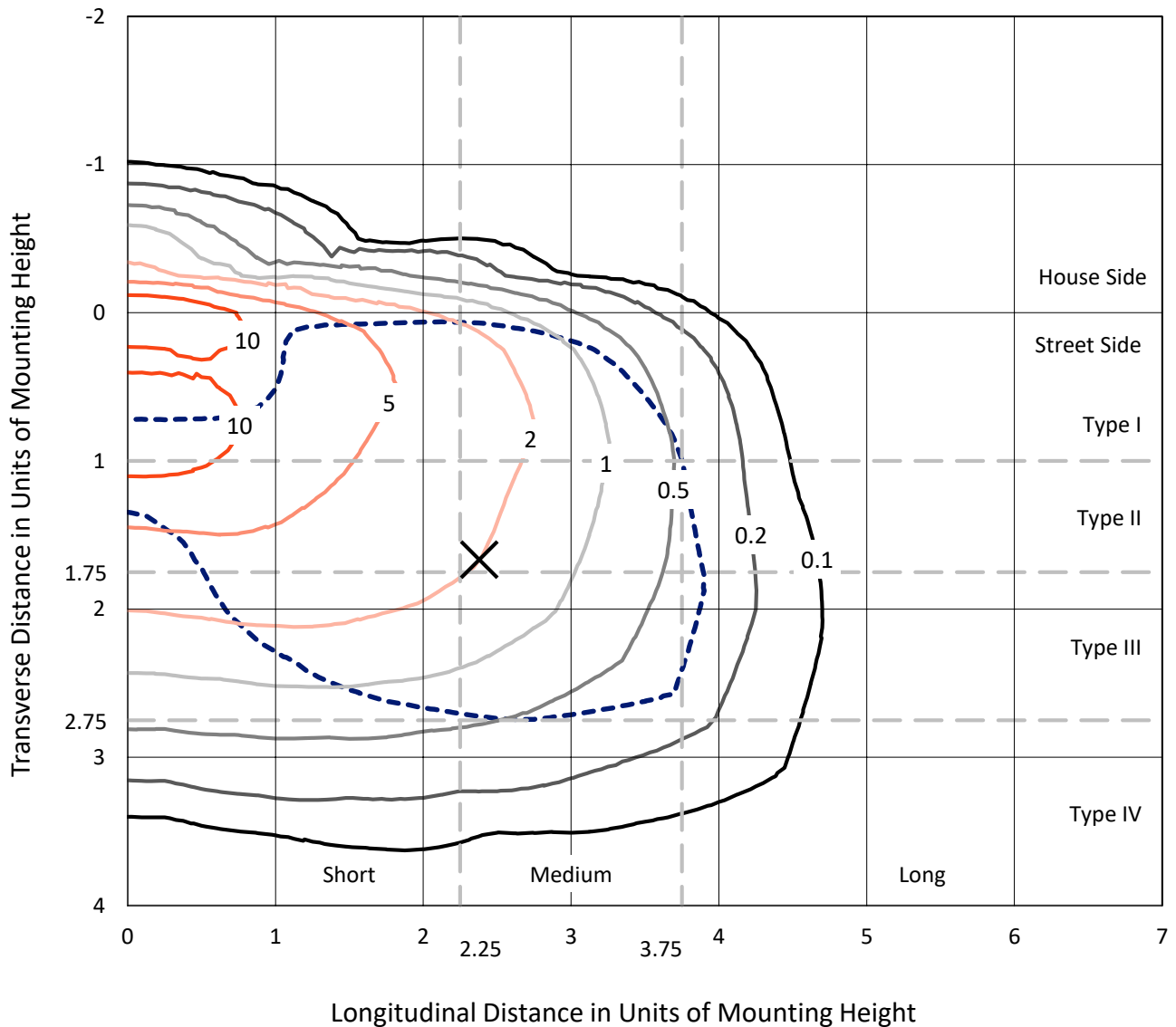
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

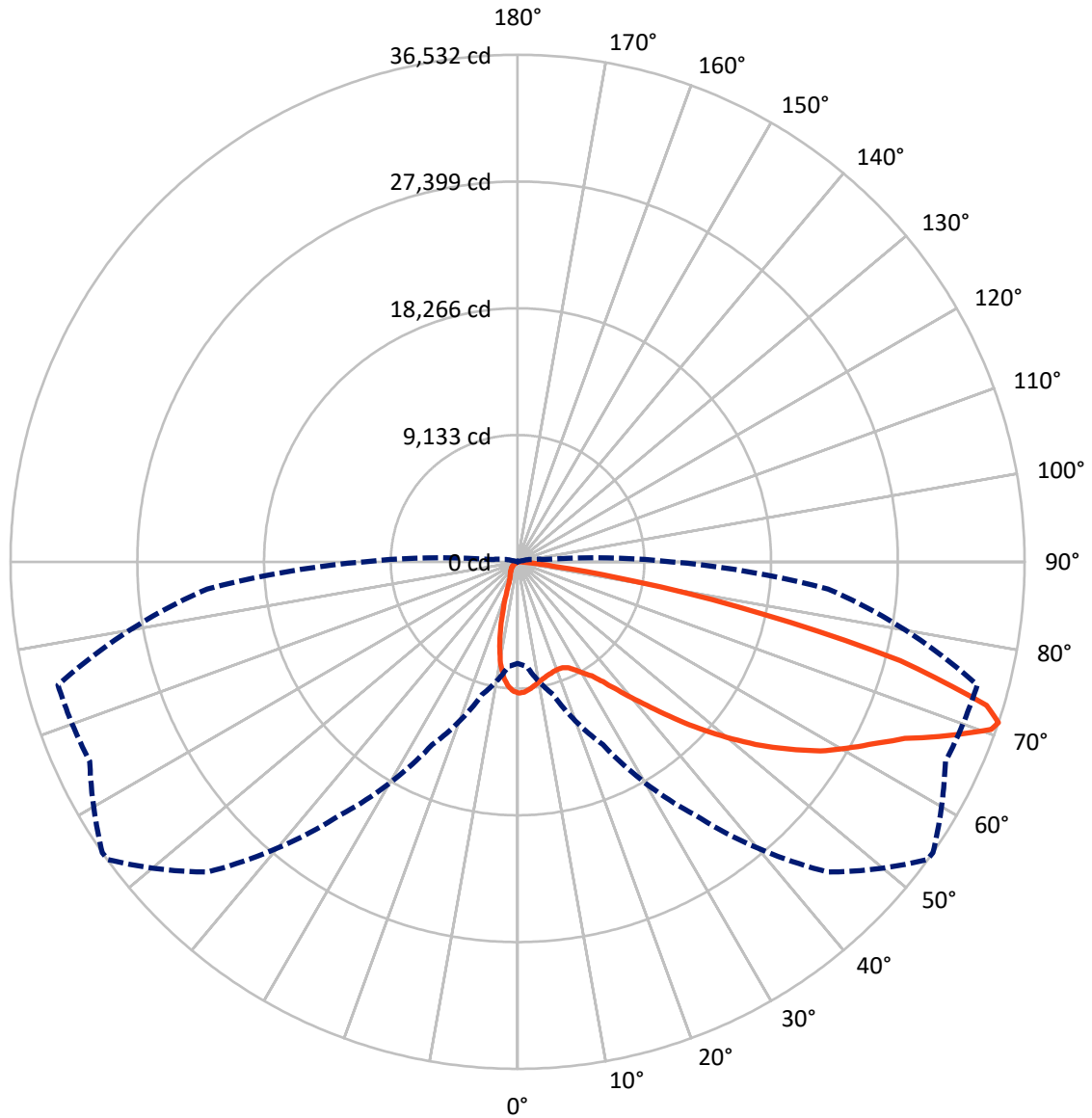
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3882.2	0.0	3882.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	45152.8	0.0	45152.8
	% Fixture	92.1	0.0	92.1
Total	Lumens	49035.0	0.0	49035.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	806.3	1.6
10°-20°	1820.3	3.7
20°-30°	2925.3	6.0
30°-40°	4970.1	10.1
40°-50°	7714.3	15.7
50°-60°	10371.7	21.2
60°-70°	12688.0	25.9
70°-80°	7418.4	15.1
80°-90°	320.7	0.7
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°	49035.0	100.0
0°-180°	49035.0	100.0

Coefficient of Utilization

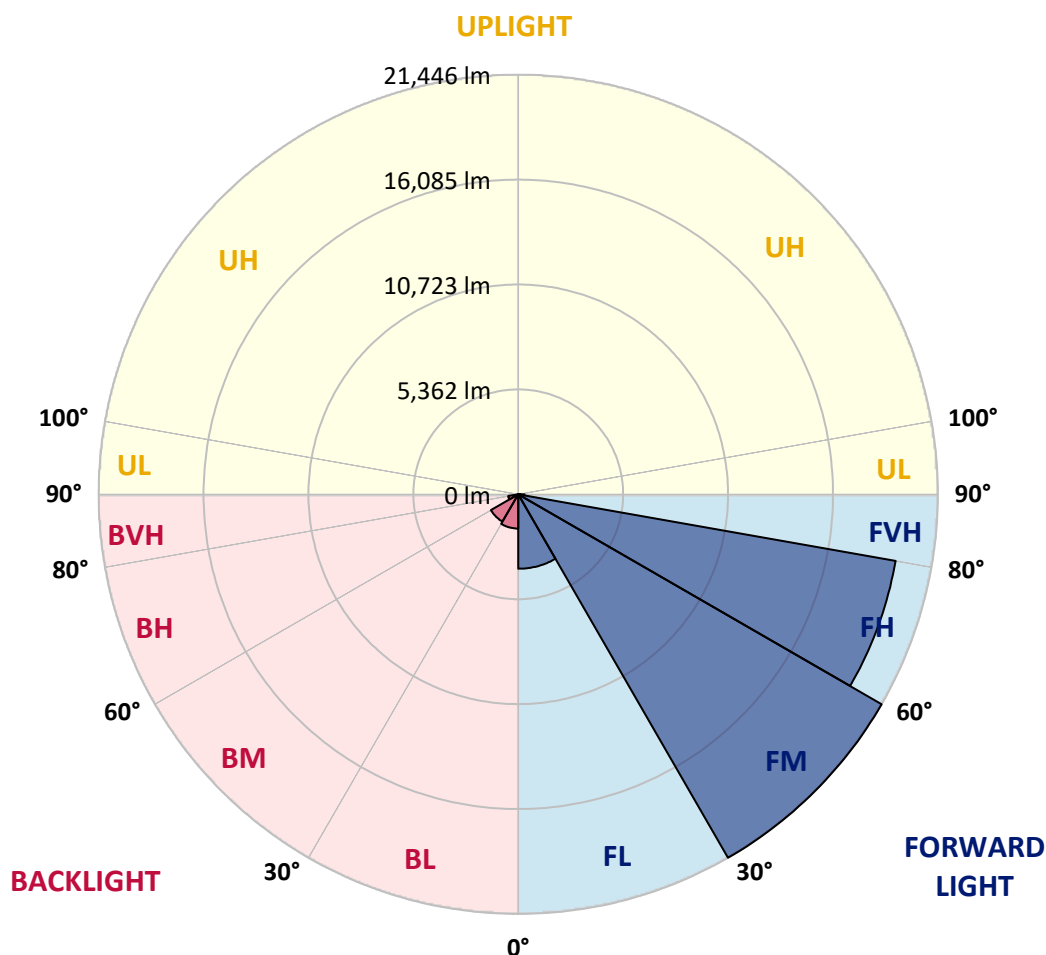


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3804.4	7.8			
FM (30°-60°)	21446.5	43.7			
FH (60°-80°)	19586.2	39.9			G5
FVH (80°-90°)	315.6	0.6			G3/500
BL (0°-30°)	1747.4	3.6	B3/2500		
BM (30°-60°)	1609.6	3.3	B2/2500		
BH (60°-80°)	520.1	1.1	B2/1000		G2/1000
BVH (80°-90°)	5.1	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9456.6	9456.6	9456.6	9456.6	9456.6	9456.6	9456.6	9456.6	9456.6	9456.6	9456.6
2.5°	9179.2	9190.2	9229.8	9247.4	9289.2	9359.7	9394.9	9397.1	9454.4	9476.4	9494.0
5°	8529.6	8595.7	8661.7	8732.2	8859.9	9029.4	9196.8	9212.2	9397.1	9533.6	9606.3
7.5°	7970.4	8029.8	8109.1	8221.4	8401.9	8668.3	8948.0	8981.0	9331.1	9641.5	9804.5
10°	7395.7	7444.2	7558.7	7723.8	7972.6	8329.3	8705.8	8760.8	9271.6	9786.8	10073.1
12.5°	6781.4	6810.1	6948.8	7186.6	7552.0	8005.6	8501.0	8573.7	9234.2	9954.2	10390.1
15°	6314.7	6327.9	6460.0	6706.6	7124.9	7715.0	8342.5	8430.6	9243.0	10154.5	10735.8
17.5°	6195.8	6202.4	6272.8	6442.4	6812.3	7455.2	8217.0	8324.9	9269.4	10350.5	11083.7
20°	6677.9	6631.7	6559.1	6532.6	6691.2	7298.8	8142.1	8263.2	9304.7	10524.4	11396.3
22.5°	8001.2	7864.7	7563.1	7160.1	6915.7	7309.9	8161.9	8283.0	9416.9	10738.0	11757.4
25°	9965.2	9775.8	9262.8	8470.2	7708.4	7626.9	8327.1	8450.4	9634.9	10993.4	12103.1
27.5°	12200.0	12012.8	11385.3	10253.6	8954.6	8254.4	8705.8	8820.3	9958.6	11220.2	12367.3
30°	14340.1	14287.2	13547.5	12261.6	10522.2	9271.6	9194.6	9291.4	10198.6	11356.7	12576.5
32.5°	16154.3	16070.7	15476.2	14225.6	12316.7	10493.6	9769.2	9797.8	10379.1	11532.8	12849.5
35°	17836.5	17733.0	17211.2	16028.8	14157.3	11986.4	10654.3	10612.5	10773.2	11887.3	13245.8
37.5°	19305.1	19399.7	18820.7	17695.6	15808.7	13538.6	11847.7	11722.2	11389.7	12464.2	13820.5
40°	20533.6	20533.6	20232.0	19294.1	17592.1	15143.7	13197.4	13032.2	12316.7	13353.7	14549.3
42.5°	20976.2	21070.9	21183.2	20652.5	19188.4	16812.7	14701.2	14529.4	13622.3	14615.3	15469.6
45°	21002.6	21152.3	21727.0	21724.8	20630.5	18470.6	16396.5	16315.1	15295.7	16235.8	16610.1
47.5°	20630.5	20817.7	21764.4	22301.7	21773.2	20014.0	18250.4	18149.1	17261.8	18221.8	17803.5
50°	20055.9	20262.8	21363.7	22528.4	22550.5	21357.1	20203.4	20051.5	19426.2	20491.8	19036.5
52.5°	19027.6	19428.4	21004.8	22581.3	23061.3	22517.4	22061.7	21995.6	21848.1	22678.2	20018.4
55°	16828.1	17272.8	20104.3	22598.9	23534.7	23545.7	23803.3	23820.9	24118.1	24721.4	20749.4
57.5°	15788.8	16039.8	18532.2	22682.6	24237.0	24712.6	25577.9	25714.4	26174.6	26661.2	21583.9
60°	15134.9	15432.2	17757.2	22568.1	25340.1	26242.8	27222.6	27268.8	27762.0	28662.6	22713.4
62.5°	14613.1	14905.9	17268.4	22127.7	26579.7	28083.5	28829.9	28834.3	29204.2	31047.1	23997.0
65°	13325.1	13571.7	16279.8	21632.3	27398.7	29904.4	30697.0	30668.4	30970.0	33561.5	25487.6
67.5°	11462.4	11651.7	14260.8	19754.2	27090.5	31560.1	33515.2	33420.6	33055.1	35734.6	26073.3
70°	8862.1	8930.4	11240.0	16462.6	24201.8	32196.4	36238.8	36190.4	34334.3	35344.9	23926.6
71°	7325.3	7549.8	9905.7	14529.4	22266.4	31608.5	36503.0	36531.7	34012.8	34283.7	22449.2
72.5°	4253.8	4445.4	7180.0	11158.5	18904.3	29155.8	35133.5	35340.5	32511.2	31183.6	19175.2
75°	911.5	975.4	2661.9	5400.9	10398.9	20434.6	27731.2	28468.8	26498.2	21214.0	11557.1
77.5°	634.1	684.7	1140.5	2450.6	3437.0	10097.3	17226.6	18058.9	15830.7	7972.6	3699.0
80°	502.0	559.2	889.5	1211.0	929.1	3256.4	8069.5	8578.1	5279.8	1779.0	623.1
82.5°	279.6	332.5	693.6	653.9	356.7	618.7	2259.0	2554.0	1056.8	358.9	147.5
85°	81.5	99.1	447.0	475.6	151.9	118.9	385.3	477.8	200.4	94.7	66.1
87.5°	0.0	0.0	215.8	182.7	44.0	17.6	35.2	39.6	39.6	39.6	44.0
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°	9456.6	9456.6	9456.6	9456.6	9456.6	9456.6	9456.6	9456.6	9456.6	9456.6	9456.6
2.5°	9494.0	9509.4	9454.4	9381.7	9304.7	9210.0	9110.9	9033.8	9031.6	8994.2	8956.8
5°	9610.7	9601.9	9450.0	9218.8	8945.8	8661.7	8390.9	8084.9	7983.6	7858.1	7816.3
7.5°	9826.5	9764.8	9443.4	8937.0	8338.1	7743.6	7129.3	6510.6	6246.4	6008.6	5966.8
10°	10097.3	9980.6	9401.5	8514.2	7415.5	6319.1	5392.1	4551.0	4181.1	3897.1	3883.9
12.5°	10379.1	10200.8	9284.8	7875.7	6206.8	4665.5	3597.7	2769.8	2461.6	2263.4	2281.0
15°	10674.2	10407.7	9033.8	7014.8	4830.7	3166.1	2210.6	1724.0	1600.7	1550.0	1563.3
17.5°	10975.8	10550.9	8683.8	5977.8	3472.2	2043.2	1530.2	1393.7	1393.7	1404.7	1409.1
20°	11237.8	10627.9	8168.5	4815.3	2353.7	1488.4	1338.7	1318.9	1329.9	1347.5	1349.7
22.5°	11497.6	10632.3	7497.0	3637.3	1646.9	1303.4	1274.8	1266.0	1272.6	1292.4	1294.6
25°	11709.0	10579.5	6655.9	2587.1	1314.5	1228.6	1215.4	1211.0	1215.4	1239.6	1239.6
27.5°	11794.8	10387.9	5629.9	1818.7	1177.9	1144.9	1140.5	1144.9	1151.5	1169.1	1171.3
30°	11803.7	10053.3	4511.4	1316.7	1067.9	1032.6	1041.4	1056.8	1050.2	1045.8	1050.2
32.5°	11825.7	9665.7	3421.5	1083.3	975.4	920.3	909.3	909.3	882.9	867.5	858.7
35°	11898.3	9210.0	2481.4	973.2	880.7	816.9	775.0	726.6	675.9	649.5	642.9
37.5°	12012.8	8732.2	1776.8	900.5	797.0	724.4	645.1	559.2	486.6	466.8	466.8
40°	12222.0	8239.0	1314.5	843.3	731.0	640.7	521.8	409.5	343.5	332.5	332.5
42.5°	12552.3	7719.4	1048.0	792.6	673.7	554.8	398.5	297.2	248.8	242.2	240.0
45°	12895.7	7146.9	915.9	744.2	612.1	455.8	295.0	220.2	191.6	184.9	184.9
47.5°	13239.2	6537.0	852.1	698.0	552.6	354.5	220.2	173.9	160.7	160.7	162.9
50°	13529.8	5900.7	805.8	647.3	475.6	268.6	173.9	147.5	143.1	151.9	154.1
52.5°	13602.5	5275.4	748.6	583.5	380.9	204.8	143.1	129.9	129.9	129.9	129.9
55°	13558.5	4791.0	673.7	504.2	281.8	162.9	123.3	114.5	112.3	112.3	112.3
57.5°	13708.2	4504.8	539.4	391.9	202.6	132.1	107.9	101.3	96.9	94.7	94.7
60°	14009.8	4317.7	385.3	281.8	151.9	110.1	92.5	85.9	79.3	74.9	74.9
62.5°	14410.5	4154.7	286.2	209.2	116.7	88.1	77.1	70.5	61.6	57.2	57.2
65°	14718.8	3864.1	218.0	156.3	88.1	70.5	59.4	57.2	44.0	39.6	37.4
67.5°	14247.6	3225.6	176.1	114.5	66.1	55.0	46.2	44.0	26.4	22.0	22.0
70°	12219.8	2245.8	140.9	83.7	48.4	44.0	37.4	28.6	19.8	17.6	17.6
71°	11081.5	1875.9	127.7	70.5	41.8	41.8	35.2	24.2	17.6	15.4	15.4
72.5°	9205.6	1332.1	107.9	55.0	37.4	44.0	37.4	22.0	17.6	15.4	13.2
75°	5343.7	557.0	74.9	37.4	28.6	52.8	48.4	19.8	13.2	11.0	11.0
77.5°	1607.3	204.8	41.8	24.2	22.0	46.2	55.0	17.6	6.6	2.2	2.2
80°	292.8	88.1	26.4	15.4	15.4	28.6	41.8	8.8	0.0	0.0	0.0
82.5°	103.5	44.0	15.4	8.8	6.6	13.2	19.8	0.0	0.0	0.0	0.0
85°	59.4	30.8	8.8	4.4	0.0	2.2	4.4	0.0	0.0	0.0	0.0
87.5°	39.6	8.8	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)