

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: P321583

Luminaire Tested: **GAN-SA9D-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321583
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-SA9D-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA 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: 48585 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

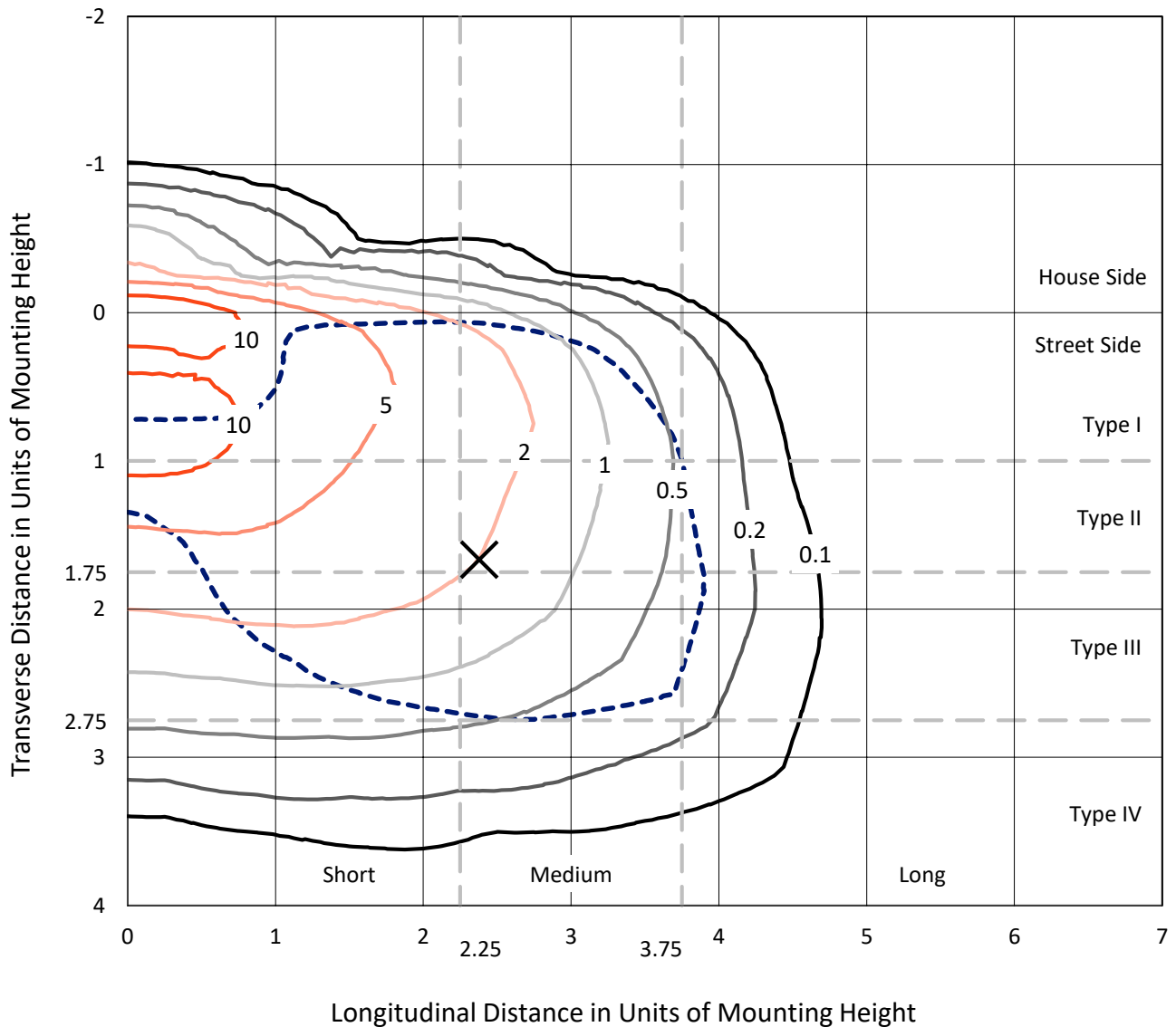
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

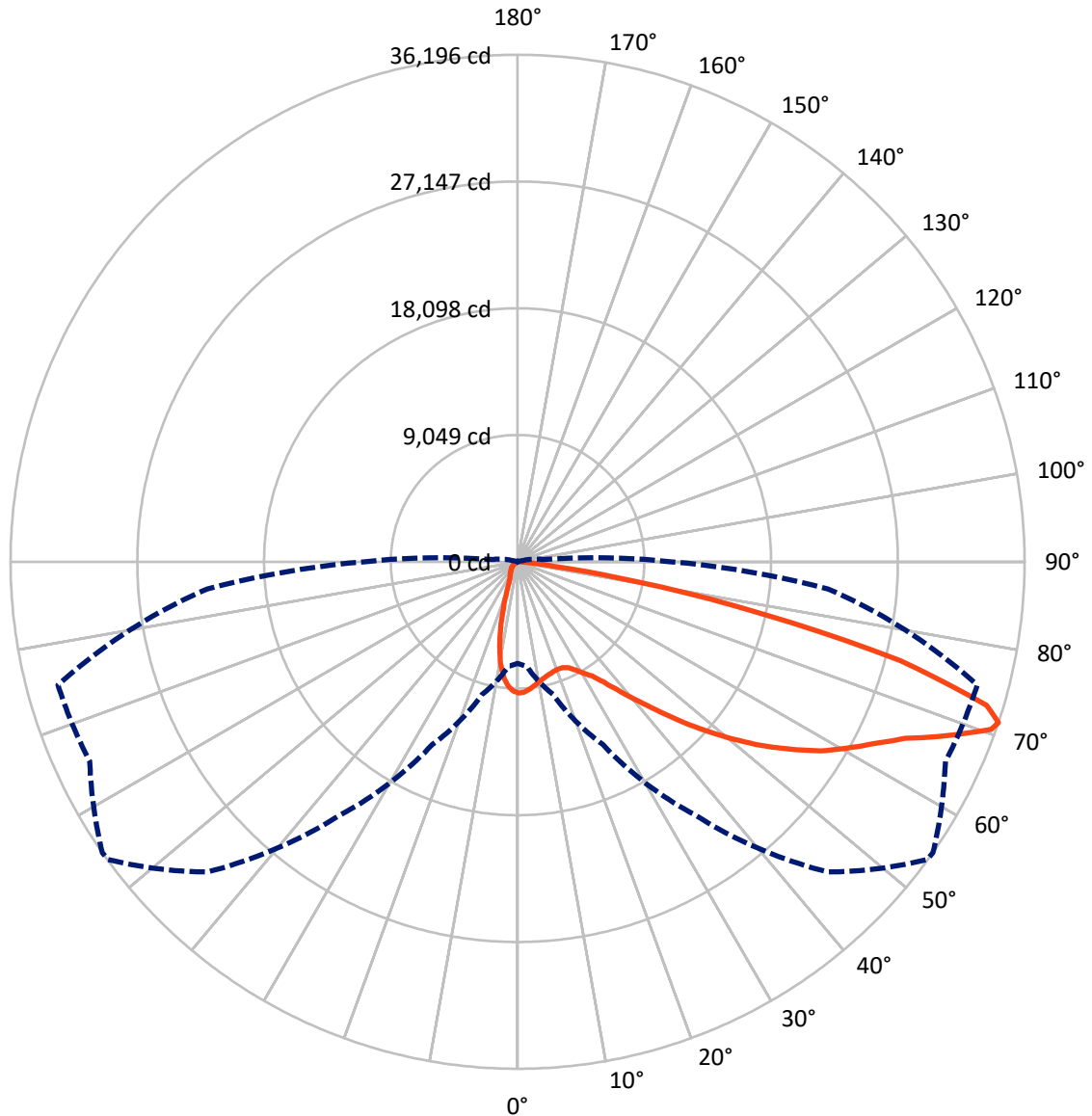
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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	3846.6	0.0	3846.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	44738.4	0.0	44738.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	48585.0	0.0	48585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.9	1.6
10°-20°	1803.6	3.7
20°-30°	2898.4	6.0
30°-40°	4924.5	10.1
40°-50°	7643.5	15.7
50°-60°	10276.5	21.2
60°-70°	12571.5	25.9
70°-80°	7350.3	15.1
80°-90°	317.7	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°	48585.0	100.0
0°-180°	48585.0	100.0

Coefficient of Utilization

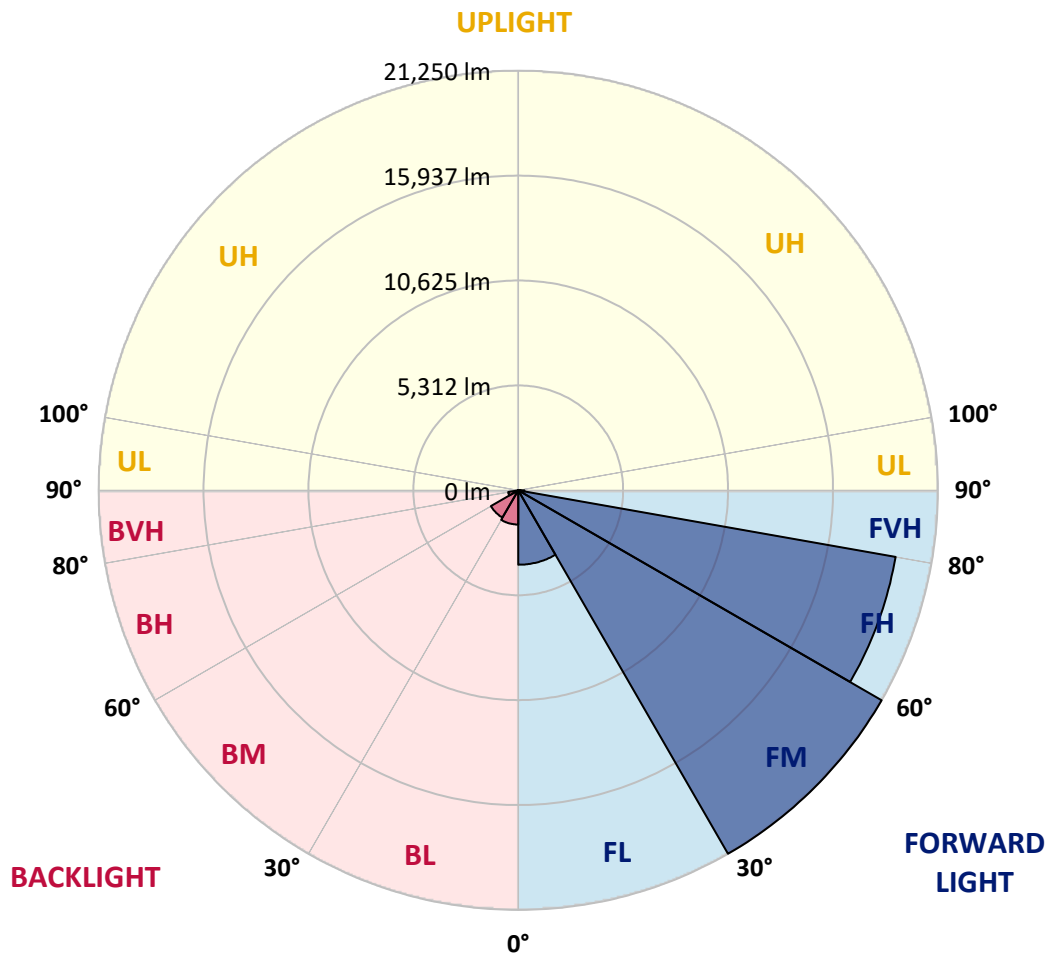


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3769.5	7.8			
FM (30°-60°)	21249.7	43.7			
FH (60°-80°)	19406.5	39.9			G5
FVH (80°-90°)	312.7	0.6			G3/500
BL (0°-30°)	1731.4	3.6	B3/2500		
BM (30°-60°)	1594.9	3.3	B2/2500		
BH (60°-80°)	515.4	1.1	B2/1000		G2/1000
BVH (80°-90°)	5.0	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°	9369.8	9369.8	9369.8	9369.8	9369.8	9369.8	9369.8	9369.8	9369.8	9369.8	9369.8
2.5°	9094.9	9105.8	9145.1	9162.5	9204.0	9273.8	9308.7	9310.9	9367.6	9389.4	9406.9
5°	8451.4	8516.8	8582.2	8652.1	8778.6	8946.6	9112.4	9127.6	9310.9	9446.1	9518.1
7.5°	7897.2	7956.1	8034.7	8145.9	8324.8	8588.8	8865.9	8898.6	9245.4	9553.0	9714.5
10°	7327.9	7375.8	7489.3	7652.9	7899.4	8252.8	8625.9	8680.4	9186.5	9697.0	9980.6
12.5°	6719.2	6747.6	6885.0	7120.6	7482.7	7932.1	8423.0	8495.0	9149.5	9862.8	10294.8
15°	6256.7	6269.8	6400.7	6645.0	7059.5	7644.2	8265.9	8353.2	9158.2	10061.3	10637.3
17.5°	6138.9	6145.4	6215.3	6383.2	6749.7	7386.8	8141.6	8248.5	9184.4	10255.5	10982.0
20°	6616.7	6570.9	6498.9	6472.7	6629.8	7231.9	8067.4	8187.4	9219.3	10427.8	11291.7
22.5°	7927.8	7792.5	7493.7	7094.4	6852.3	7242.8	8087.0	8207.0	9330.5	10639.5	11649.5
25°	9873.7	9686.1	9177.8	8392.5	7637.6	7556.9	8250.7	8372.8	9546.5	10892.5	11992.0
27.5°	12088.0	11902.6	11280.8	10159.5	8872.4	8178.7	8625.9	8739.3	9867.2	11117.2	12253.8
30°	14208.5	14156.1	13423.1	12149.1	10425.7	9186.5	9110.2	9206.2	10105.0	11252.5	12461.1
32.5°	16006.1	15923.2	15334.2	14095.0	12203.6	10397.3	9679.6	9707.9	10283.9	11427.0	12731.6
35°	17672.8	17570.3	17053.2	15881.7	14027.4	11876.4	10556.6	10515.1	10674.4	11778.2	13124.3
37.5°	19127.9	19221.7	18648.0	17533.2	15663.6	13414.4	11739.0	11614.6	11285.2	12349.8	13693.6
40°	20345.2	20345.2	20046.3	19117.0	17430.6	15004.8	13076.3	12912.6	12203.6	13231.1	14415.7
42.5°	20783.7	20877.5	20988.8	20463.0	19012.3	16658.4	14566.3	14396.1	13497.3	14481.2	15327.6
45°	20809.9	20958.2	21527.6	21525.4	20441.2	18301.1	16246.1	16165.3	15155.3	16086.8	16457.7
47.5°	20441.2	20626.6	21564.7	22097.0	21573.4	19830.4	18082.9	17982.6	17103.4	18054.6	17640.1
50°	19871.8	20076.9	21167.7	22321.7	22343.5	21161.1	20018.0	19867.4	19247.9	20303.8	18861.8
52.5°	18853.0	19250.1	20812.1	22374.1	22849.6	22310.8	21859.2	21793.8	21647.6	22470.0	19834.7
55°	16673.6	17114.3	19919.8	22391.5	23318.7	23329.6	23584.8	23602.3	23896.8	24494.5	20559.0
57.5°	15644.0	15892.6	18362.2	22474.4	24014.6	24485.8	25343.2	25478.4	25934.4	26416.5	21385.8
60°	14996.0	15290.5	17594.3	22361.0	25107.6	26002.0	26972.8	27018.6	27507.3	28399.5	22505.0
62.5°	14479.0	14769.1	17110.0	21924.7	26335.8	27825.8	28565.3	28569.7	28936.2	30762.1	23776.8
65°	13202.8	13447.1	16130.4	21433.8	27147.3	29629.9	30415.3	30386.9	30685.8	33253.5	25253.7
67.5°	11357.2	11544.8	14130.0	19572.9	26841.9	31270.5	33207.7	33113.9	32751.7	35406.7	25834.0
70°	8780.8	8848.4	11136.9	16311.5	23979.7	31900.9	35906.3	35858.3	34019.2	35020.6	23707.0
71°	7258.0	7480.6	9814.8	14396.1	22062.1	31318.4	36168.0	36196.4	33700.7	33969.0	22243.2
72.5°	4214.8	4404.6	7114.1	11056.1	18730.9	28888.2	34811.1	35016.2	32212.9	30897.4	18999.2
75°	903.2	966.4	2637.5	5351.4	10303.5	20247.0	27476.7	28207.5	26255.1	21019.3	11451.0
77.5°	628.3	678.5	1130.0	2428.1	3405.4	10004.6	17068.5	17893.1	15685.4	7899.4	3665.0
80°	497.4	554.1	881.3	1199.9	920.6	3226.5	7995.4	8499.3	5231.4	1762.7	617.4
82.5°	277.1	329.4	687.2	647.9	353.4	613.0	2238.3	2530.6	1047.1	355.6	146.2
85°	80.7	98.2	442.9	471.2	150.5	117.8	381.8	473.4	198.5	93.8	65.4
87.5°	0.0	0.0	213.8	181.1	43.6	17.5	34.9	39.3	39.3	39.3	43.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9369.8	9369.8	9369.8	9369.8	9369.8	9369.8	9369.8	9369.8	9369.8	9369.8	9369.8
2.5°	9406.9	9422.1	9367.6	9295.6	9219.3	9125.5	9027.3	8950.9	8948.8	8911.7	8874.6
5°	9522.5	9513.8	9363.2	9134.2	8863.7	8582.2	8313.9	8010.7	7910.3	7786.0	7744.5
7.5°	9736.3	9675.2	9356.7	8854.9	8261.6	7672.5	7063.9	6450.9	6189.1	5953.5	5912.0
10°	10004.6	9889.0	9315.3	8436.1	7347.5	6261.1	5342.6	4509.3	4142.8	3861.4	3848.3
12.5°	10283.9	10107.2	9199.6	7803.4	6149.8	4622.7	3564.7	2744.4	2439.0	2242.6	2260.1
15°	10576.2	10312.2	8950.9	6950.4	4786.3	3137.1	2190.3	1708.2	1586.0	1535.8	1548.9
17.5°	10875.1	10454.0	8604.1	5922.9	3440.3	2024.5	1516.2	1380.9	1380.9	1391.8	1396.2
20°	11134.7	10530.4	8093.6	4771.1	2332.1	1474.7	1326.4	1306.8	1317.7	1335.1	1337.3
22.5°	11392.1	10534.7	7428.2	3603.9	1631.8	1291.5	1263.1	1254.4	1260.9	1280.6	1282.8
25°	11601.5	10482.4	6594.8	2563.3	1302.4	1217.3	1204.2	1199.9	1204.2	1228.2	1228.2
27.5°	11686.6	10292.6	5578.2	1802.0	1167.1	1134.4	1130.0	1134.4	1141.0	1158.4	1160.6
30°	11695.3	9961.0	4470.0	1304.6	1058.1	1023.2	1031.9	1047.1	1040.6	1036.2	1040.6
32.5°	11717.1	9577.0	3390.1	1073.3	966.4	911.9	901.0	901.0	874.8	859.5	850.8
35°	11789.1	9125.5	2458.6	964.2	872.6	809.4	767.9	719.9	669.7	643.6	637.0
37.5°	11902.6	8652.1	1760.5	892.3	789.7	717.7	639.2	554.1	482.1	462.5	462.5
40°	12109.8	8163.4	1302.4	835.5	724.3	634.8	517.0	405.8	340.3	329.4	329.4
42.5°	12437.1	7648.5	1038.4	785.4	667.6	549.8	394.9	294.5	246.5	240.0	237.8
45°	12777.4	7081.3	907.5	737.4	606.5	451.6	292.3	218.2	189.8	183.3	183.3
47.5°	13117.7	6477.0	844.3	691.6	547.6	351.2	218.2	172.3	159.3	159.3	161.4
50°	13405.7	5846.6	798.5	641.4	471.2	266.2	172.3	146.2	141.8	150.5	152.7
52.5°	13477.7	5227.0	741.7	578.1	377.4	202.9	141.8	128.7	128.7	128.7	128.7
55°	13434.0	4747.1	667.6	499.6	279.2	161.4	122.2	113.4	111.3	111.3	111.3
57.5°	13582.4	4463.5	534.5	388.3	200.7	130.9	106.9	100.4	96.0	93.8	93.8
60°	13881.3	4278.0	381.8	279.2	150.5	109.1	91.6	85.1	78.5	74.2	74.2
62.5°	14278.3	4116.6	283.6	207.2	115.6	87.3	76.4	69.8	61.1	56.7	56.7
65°	14583.7	3828.6	216.0	154.9	87.3	69.8	58.9	56.7	43.6	39.3	37.1
67.5°	14116.9	3196.0	174.5	113.4	65.4	54.5	45.8	43.6	26.2	21.8	21.8
70°	12107.6	2225.2	139.6	82.9	48.0	43.6	37.1	28.4	19.6	17.5	17.5
71°	10979.8	1858.7	126.5	69.8	41.4	41.4	34.9	24.0	17.5	15.3	15.3
72.5°	9121.1	1319.8	106.9	54.5	37.1	43.6	37.1	21.8	17.5	15.3	13.1
75°	5294.6	551.9	74.2	37.1	28.4	52.4	48.0	19.6	13.1	10.9	10.9
77.5°	1592.5	202.9	41.4	24.0	21.8	45.8	54.5	17.5	6.5	2.2	2.2
80°	290.1	87.3	26.2	15.3	15.3	28.4	41.4	8.7	0.0	0.0	0.0
82.5°	102.5	43.6	15.3	8.7	6.5	13.1	19.6	0.0	0.0	0.0	0.0
85°	58.9	30.5	8.7	4.4	0.0	2.2	4.4	0.0	0.0	0.0	0.0
87.5°	39.3	8.7	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)