

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: P321614

Luminaire Tested: **GAN-SA0C-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321614
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-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 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: 53844 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

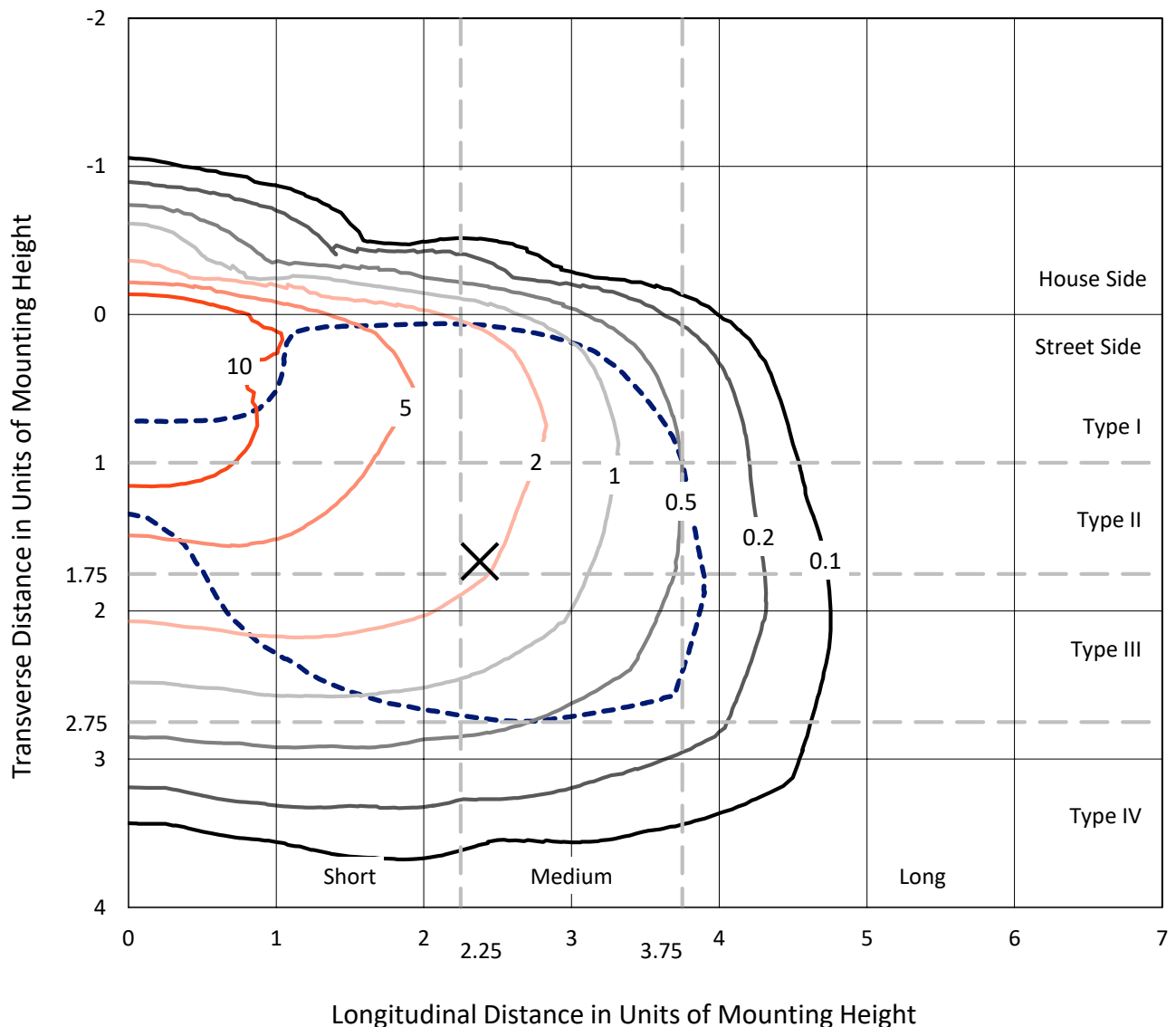
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

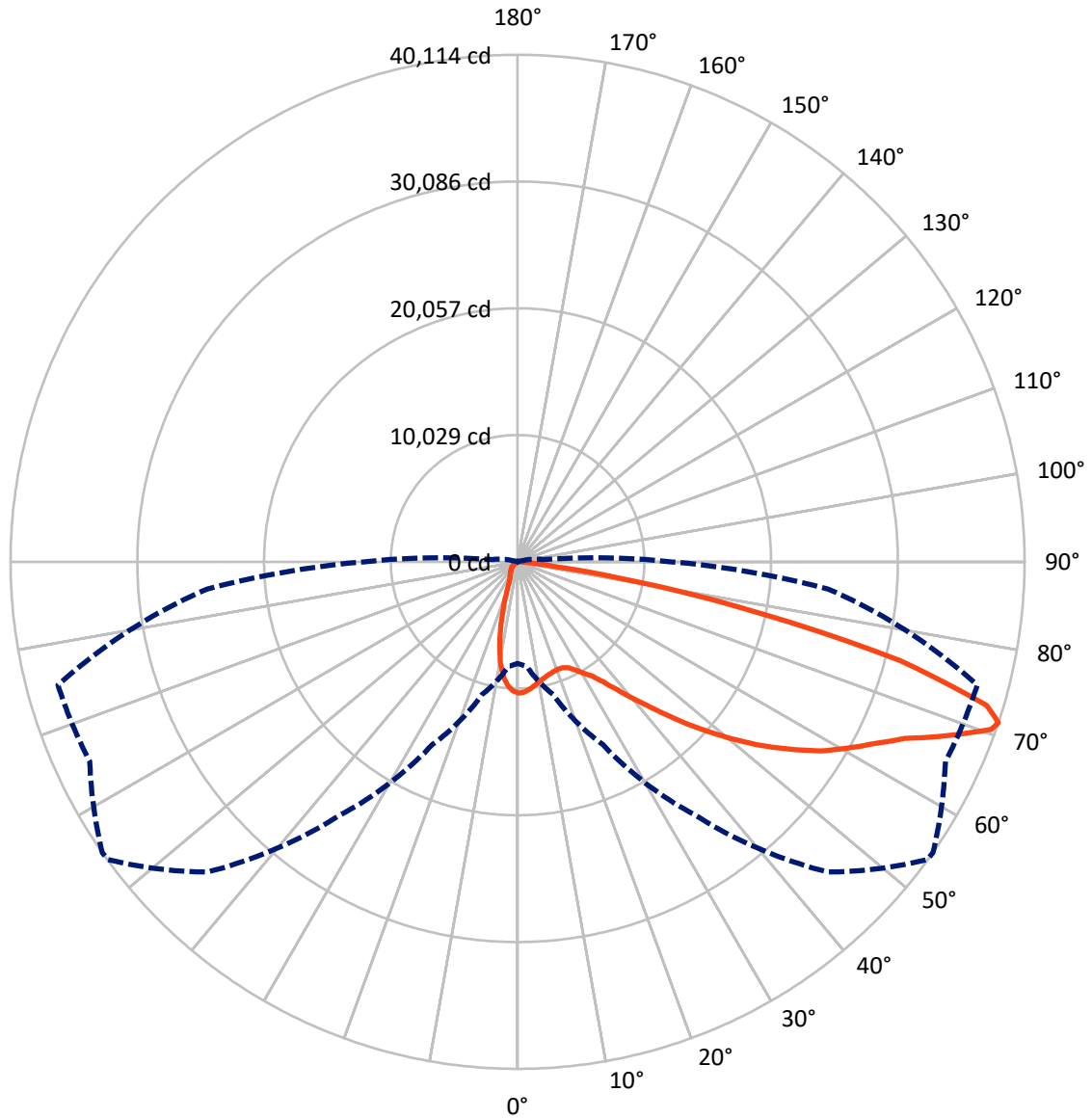
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 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	4263.0	0.0	4263.0
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	49581.0	0.0	49581.0
	% Fixture	92.1	0.0	92.1
Total	Lumens	53844.0	0.0	53844.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	885.4	1.6
10°-20°	1998.8	3.7
20°-30°	3212.2	6.0
30°-40°	5457.6	10.1
40°-50°	8470.9	15.7
50°-60°	11388.9	21.2
60°-70°	13932.3	25.9
70°-80°	8145.9	15.1
80°-90°	352.1	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°	53844.0	100.0
0°-180°	53844.0	100.0

Coefficient of Utilization

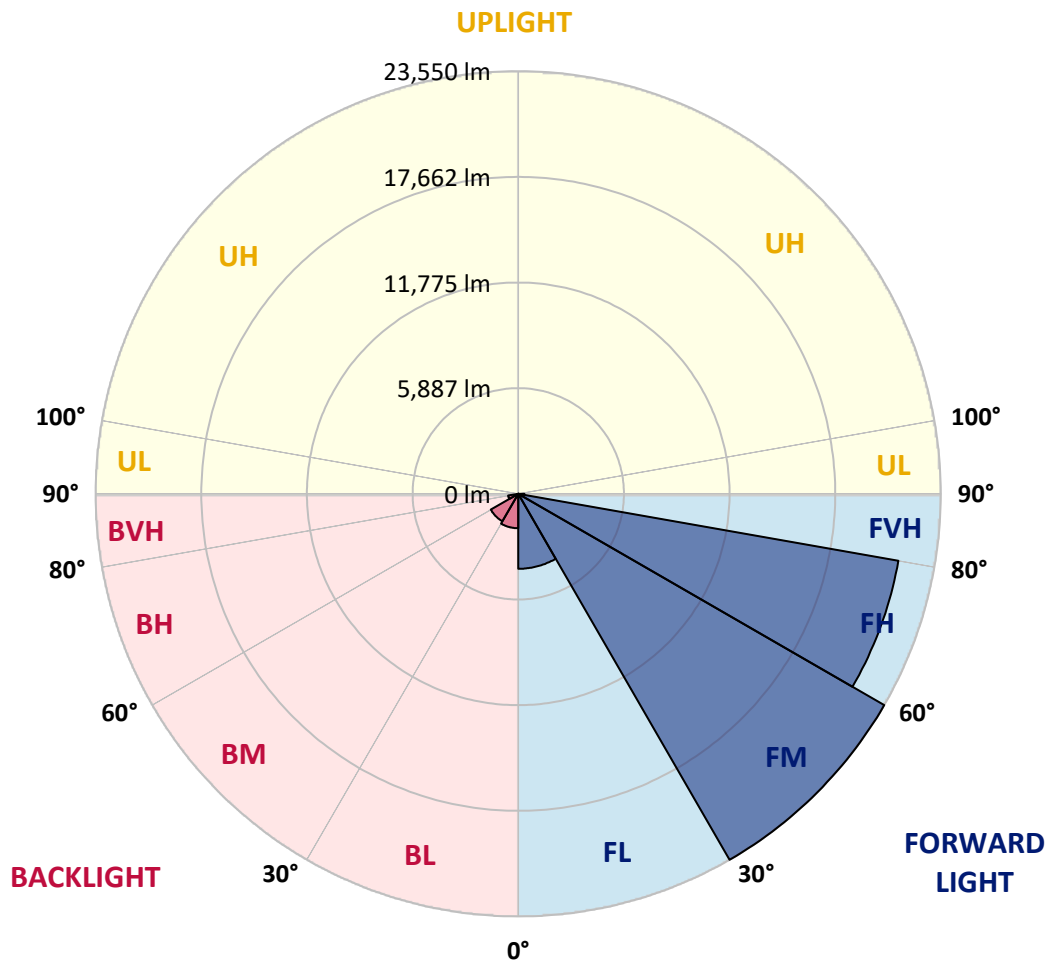


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4177.6	7.8			
FM (30°-60°)	23549.8	43.7			
FH (60°-80°)	21507.1	39.9			G5
FVH (80°-90°)	346.6	0.6			G3/500
BL (0°-30°)	1918.8	3.6	B3/2500		
BM (30°-60°)	1767.5	3.3	B2/2500		
BH (60°-80°)	571.1	1.1	B2/1000		G2/1000
BVH (80°-90°)	5.6	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°	10384.0	10384.0	10384.0	10384.0	10384.0	10384.0	10384.0	10384.0	10384.0	10384.0	10384.0
2.5°	10079.4	10091.5	10135.0	10154.3	10200.3	10277.6	10316.3	10318.7	10381.6	10405.8	10425.1
5°	9366.2	9438.7	9511.2	9588.6	9728.8	9915.0	10098.7	10115.6	10318.7	10468.6	10548.4
7.5°	8752.1	8817.3	8904.4	9027.7	9225.9	9518.5	9825.5	9861.8	10246.2	10587.1	10766.0
10°	8121.0	8174.2	8300.0	8481.3	8754.5	9146.1	9559.6	9620.0	10180.9	10746.7	11061.0
12.5°	7446.5	7477.9	7630.3	7891.4	8292.7	8790.7	9334.7	9414.5	10139.8	10930.4	11409.1
15°	6934.0	6948.5	7093.5	7364.3	7823.7	8471.6	9160.7	9257.4	10149.5	11150.4	11788.7
17.5°	6803.4	6810.7	6888.0	7074.2	7480.4	8186.3	9022.8	9141.3	10178.5	11365.6	12170.7
20°	7332.9	7282.1	7202.3	7173.3	7347.4	8014.7	8940.6	9073.6	10217.2	11556.6	12514.0
22.5°	8785.9	8636.0	8304.8	7862.4	7594.0	8026.8	8962.4	9095.4	10340.5	11791.1	12910.5
25°	10942.5	10734.6	10171.3	9300.9	8464.4	8374.9	9143.7	9279.1	10579.8	12071.6	13290.1
27.5°	13396.5	13191.0	12501.9	11259.2	9832.8	9063.9	9559.6	9685.3	10935.2	12320.6	13580.2
30°	15746.5	15688.4	14876.1	13464.2	11554.2	10180.9	10096.3	10202.7	11198.8	12470.5	13809.9
32.5°	17738.6	17646.8	16994.0	15620.7	13524.6	11522.7	10727.3	10758.8	11397.0	12663.9	14109.7
35°	19585.8	19472.1	18899.1	17600.8	15545.8	13161.9	11699.2	11653.3	11829.8	13053.1	14544.9
37.5°	21198.4	21302.3	20666.5	19431.0	17359.1	14866.4	13009.6	12871.8	12506.7	13686.6	15175.9
40°	22547.4	22547.4	22216.2	21186.3	19317.4	16628.9	14491.7	14310.3	13524.6	14663.3	15976.1
42.5°	23033.4	23137.4	23260.7	22678.0	21070.2	18461.5	16143.0	15954.4	14958.3	16048.7	16986.7
45°	23062.4	23226.8	23857.8	23855.4	22653.8	20282.1	18004.6	17915.1	16795.7	17828.1	18239.1
47.5°	22653.8	22859.3	23898.9	24488.9	23908.6	21976.9	20040.3	19929.1	18954.7	20008.9	19549.5
50°	22022.8	22250.1	23458.9	24737.9	24762.1	23451.7	22184.8	22018.0	21331.3	22501.5	20903.4
52.5°	20893.7	21333.8	23064.8	24795.9	25323.0	24725.8	24225.3	24152.8	23990.8	24902.3	21981.7
55°	18478.5	18966.8	22076.0	24815.2	25842.8	25854.9	26137.7	26157.1	26483.5	27145.9	22784.4
57.5°	17337.3	17612.9	20349.8	24907.1	26614.0	27136.2	28086.4	28236.3	28741.6	29275.9	23700.7
60°	16619.2	16945.6	19498.7	24781.4	27825.3	28816.5	29892.4	29943.2	30484.7	31473.6	24941.0
62.5°	16046.3	16367.8	18962.0	24297.9	29186.4	30837.7	31657.3	31662.2	32068.3	34091.9	26350.5
65°	14631.9	14902.7	17876.5	23753.9	30085.8	32837.2	33707.5	33676.1	34007.3	36853.0	27987.3
67.5°	12586.5	12794.5	15659.4	21691.6	29747.3	34655.3	36802.2	36698.2	36296.9	39239.2	28630.4
70°	9731.2	9806.2	12342.3	18077.1	26575.3	35354.0	39792.9	39739.7	37701.6	38811.3	26273.1
71°	8043.7	8290.3	10877.2	15954.4	24450.2	34708.5	40083.0	40114.4	37348.6	37646.0	24650.8
72.5°	4671.0	4881.3	7884.1	12252.9	20758.3	32015.1	38579.2	38806.5	35699.7	34241.8	21055.7
75°	1000.9	1071.0	2923.0	5930.6	11418.8	22438.6	30450.9	31260.8	29097.0	23294.5	12690.5
77.5°	696.3	751.9	1252.4	2690.9	3774.0	11087.6	18916.1	19830.0	17383.2	8754.5	4061.7
80°	551.2	614.1	976.7	1329.7	1020.3	3575.8	8860.9	9419.3	5797.6	1953.5	684.2
82.5°	307.0	365.1	761.6	718.1	391.7	679.4	2480.6	2804.5	1160.5	394.1	162.0
85°	89.5	108.8	490.8	522.2	166.8	130.6	423.1	524.6	220.0	104.0	72.5
87.5°	0.0	0.0	236.9	200.7	48.4	19.3	38.7	43.5	43.5	43.5	48.4
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°	10384.0	10384.0	10384.0	10384.0	10384.0	10384.0	10384.0	10384.0	10384.0	10384.0	10384.0
2.5°	10425.1	10442.0	10381.6	10301.8	10217.2	10113.2	10004.4	9919.8	9917.4	9876.3	9835.2
5°	10553.2	10543.6	10376.8	10122.9	9823.1	9511.2	9213.8	8877.8	8766.6	8628.8	8582.8
7.5°	10790.2	10722.5	10369.5	9813.4	9155.8	8503.0	7828.5	7149.1	6859.0	6597.9	6552.0
10°	11087.6	10959.4	10323.6	9349.2	8142.8	6938.8	5920.9	4997.4	4591.2	4279.3	4264.8
12.5°	11397.0	11201.2	10195.4	8648.1	6815.5	5123.1	3950.5	3041.5	2703.0	2485.4	2504.7
15°	11721.0	11428.5	9919.8	7702.8	5304.4	3476.6	2427.4	1893.1	1757.7	1702.1	1716.6
17.5°	12052.2	11585.6	9535.4	6564.0	3812.7	2243.6	1680.3	1530.4	1530.4	1542.5	1547.3
20°	12339.9	11670.2	8969.7	5287.5	2584.5	1634.4	1470.0	1448.2	1460.3	1479.6	1482.0
22.5°	12625.2	11675.1	8232.3	3994.0	1808.4	1431.3	1399.8	1390.2	1397.4	1419.2	1421.6
25°	12857.3	11617.0	7308.7	2840.8	1443.4	1349.1	1334.6	1329.7	1334.6	1361.2	1361.2
27.5°	12951.6	11406.7	6182.1	1997.0	1293.5	1257.2	1252.4	1257.2	1264.5	1283.8	1286.2
30°	12961.3	11039.2	4953.9	1445.8	1172.6	1133.9	1143.6	1160.5	1153.2	1148.4	1153.2
32.5°	12985.5	10613.7	3757.1	1189.5	1071.0	1010.6	998.5	998.5	969.5	952.6	942.9
35°	13065.2	10113.2	2724.7	1068.6	967.1	897.0	851.0	797.8	742.2	713.2	706.0
37.5°	13191.0	9588.6	1951.1	988.8	875.2	795.4	708.4	614.1	534.3	512.6	512.6
40°	13420.6	9047.0	1443.4	926.0	802.7	703.5	573.0	449.7	377.2	365.1	365.1
42.5°	13783.3	8476.4	1150.8	870.4	739.8	609.3	437.6	326.4	273.2	265.9	263.5
45°	14160.5	7847.8	1005.8	817.2	672.1	500.5	324.0	241.8	210.3	203.1	203.1
47.5°	14537.6	7178.1	935.6	766.4	606.8	389.2	241.8	191.0	176.5	176.5	178.9
50°	14856.7	6479.4	884.9	710.8	522.2	295.0	191.0	162.0	157.2	166.8	169.2
52.5°	14936.5	5792.8	822.0	640.7	418.3	224.8	157.2	142.6	142.6	142.6	142.6
55°	14888.2	5260.9	739.8	553.7	309.5	178.9	135.4	125.7	123.3	123.3	123.3
57.5°	15052.6	4946.6	592.3	430.4	222.4	145.1	118.5	111.2	106.4	104.0	104.0
60°	15383.8	4741.1	423.1	309.5	166.8	120.9	101.5	94.3	87.0	82.2	82.2
62.5°	15823.8	4562.2	314.3	229.7	128.1	96.7	84.6	77.4	67.7	62.9	62.9
65°	16162.3	4243.1	239.4	171.7	96.7	77.4	65.3	62.9	48.4	43.5	41.1
67.5°	15644.9	3541.9	193.4	125.7	72.5	60.4	50.8	48.4	29.0	24.2	24.2
70°	13418.2	2466.1	154.7	91.9	53.2	48.4	41.1	31.4	21.8	19.3	19.3
71°	12168.3	2059.9	140.2	77.4	45.9	45.9	38.7	26.6	19.3	16.9	16.9
72.5°	10108.4	1462.7	118.5	60.4	41.1	48.4	41.1	24.2	19.3	16.9	14.5
75°	5867.8	611.7	82.2	41.1	31.4	58.0	53.2	21.8	14.5	12.1	12.1
77.5°	1764.9	224.8	45.9	26.6	24.2	50.8	60.4	19.3	7.3	2.4	2.4
80°	321.6	96.7	29.0	16.9	16.9	31.4	45.9	9.7	0.0	0.0	0.0
82.5°	113.6	48.4	16.9	9.7	7.3	14.5	21.8	0.0	0.0	0.0	0.0
85°	65.3	33.8	9.7	4.8	0.0	2.4	4.8	0.0	0.0	0.0	0.0
87.5°	43.5	9.7	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)