

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: P383712

Luminaire Tested: **GAN-SA9D-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383712
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-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 49697.1 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

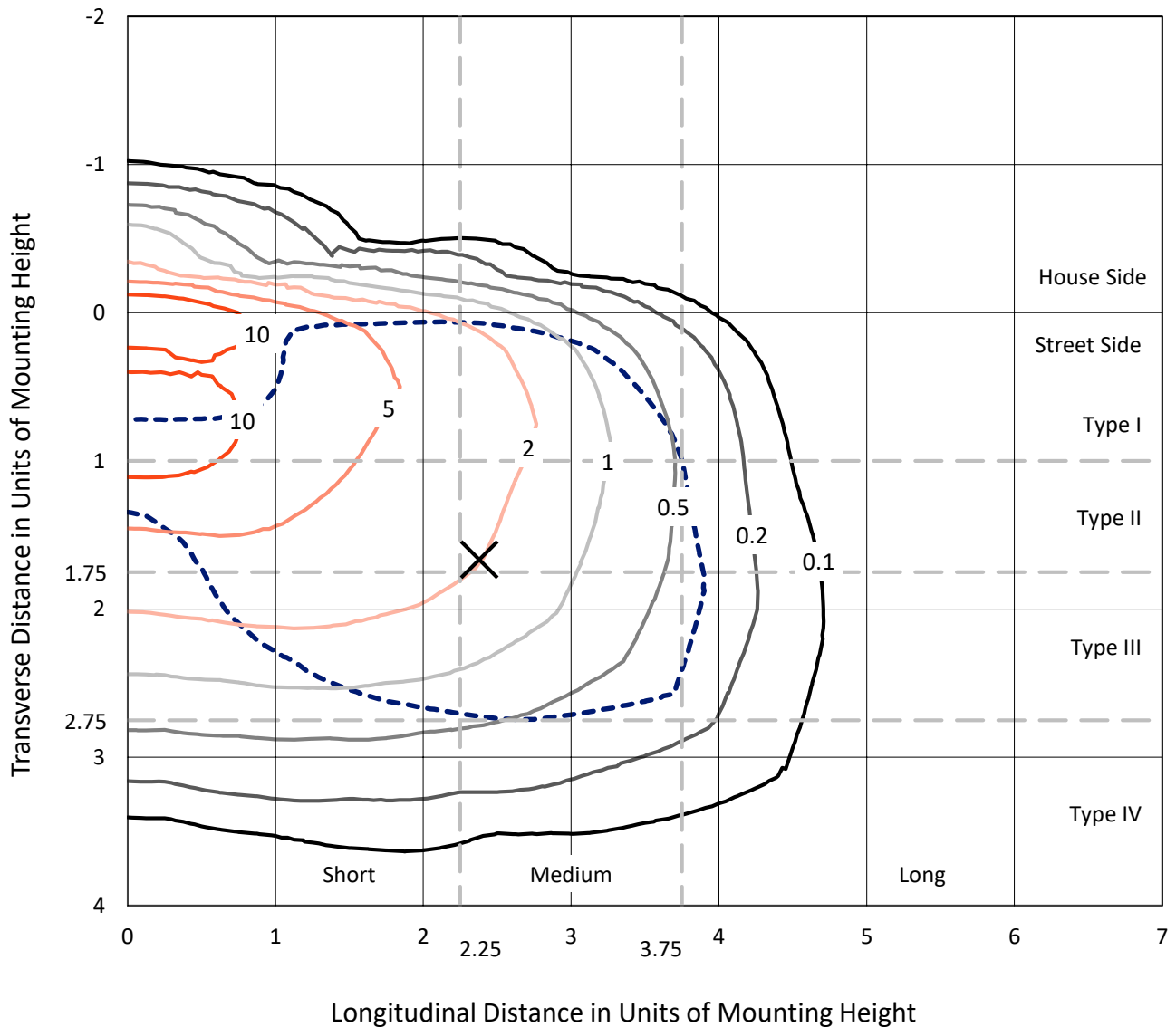
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

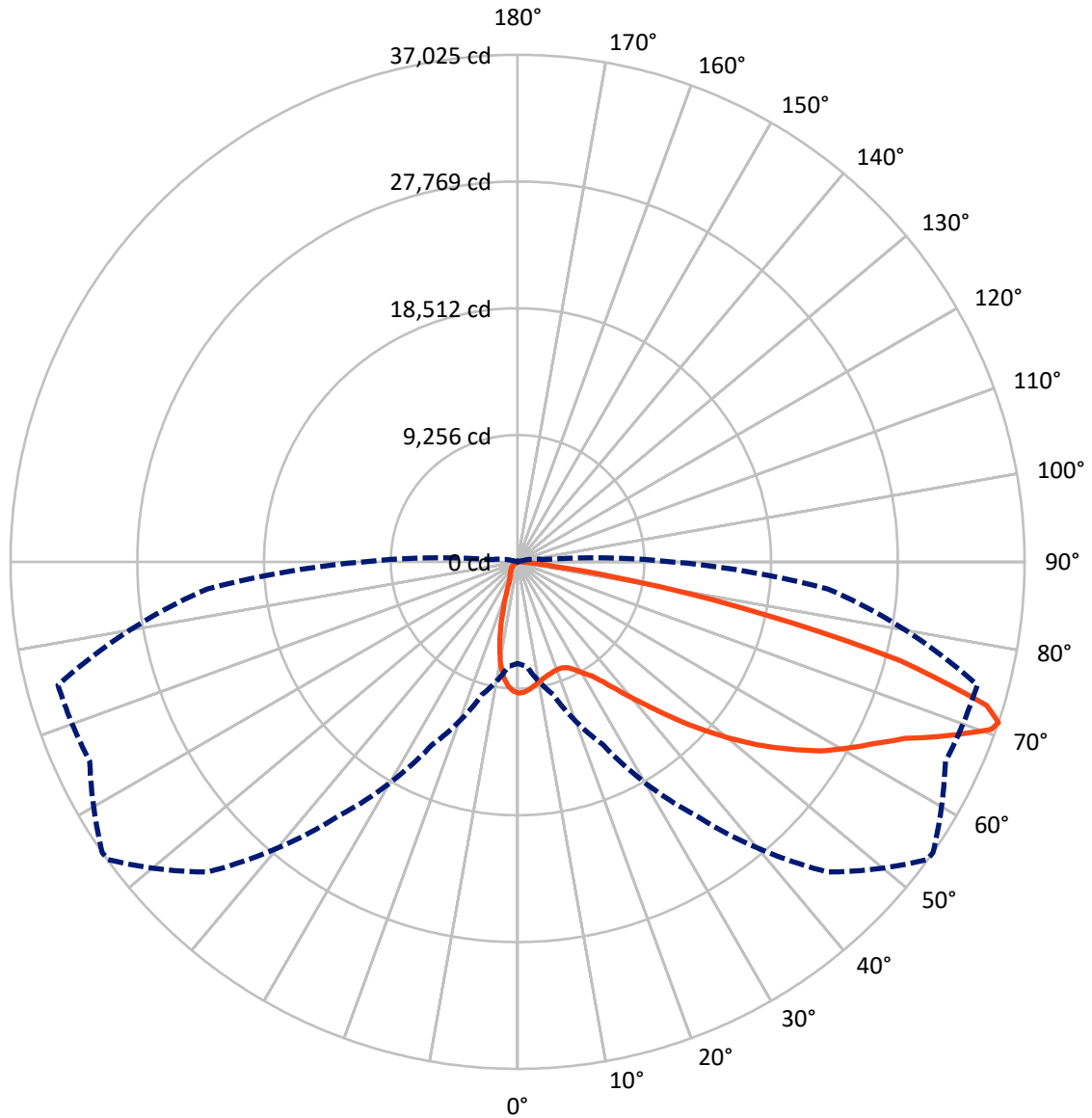
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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	3934.6	0.0	3934.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	45762.5	0.0	45762.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	49697.1	0.0	49697.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	817.2	1.6
10°-20°	1844.9	3.7
20°-30°	2964.8	6.0
30°-40°	5037.3	10.1
40°-50°	7818.5	15.7
50°-60°	10511.7	21.2
60°-70°	12859.3	25.9
70°-80°	7518.5	15.1
80°-90°	325.0	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°	49697.1	100.0
0°-180°	49697.1	100.0

Coefficient of Utilization

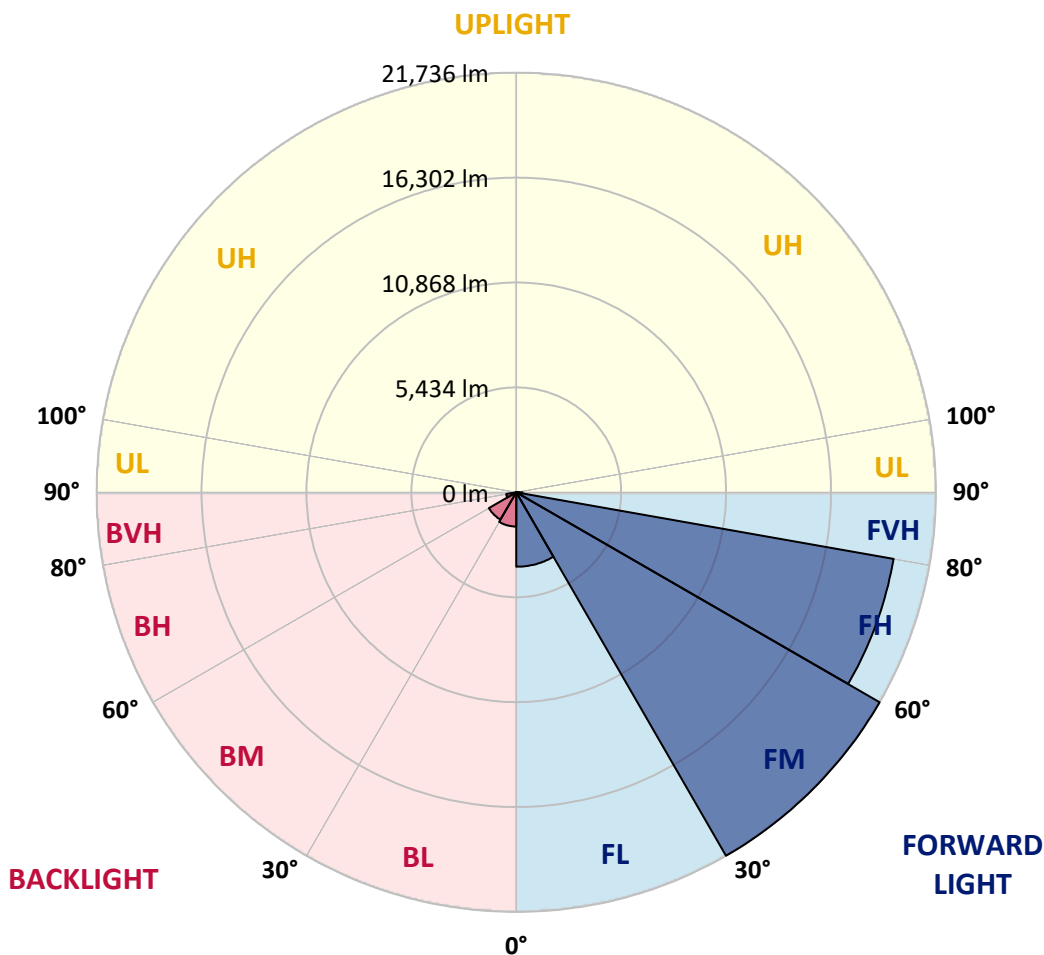


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3855.8	7.8			
FM (30°-60°)	21736.1	43.7			
FH (60°-80°)	19850.7	39.9			G5
FVH (80°-90°)	319.9	0.6			G3/500
BL (0°-30°)	1771.0	3.6	B3/2500		
BM (30°-60°)	1631.4	3.3	B2/2500		
BH (60°-80°)	527.2	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°	9584.2	9584.2	9584.2	9584.2	9584.2	9584.2	9584.2	9584.2	9584.2	9584.2	9584.2
2.5°	9303.1	9314.3	9354.4	9372.3	9414.7	9486.0	9521.8	9524.0	9582.1	9604.3	9622.2
5°	8644.9	8711.7	8778.7	8850.1	8979.6	9151.3	9321.0	9336.5	9524.0	9662.4	9736.0
7.5°	8078.0	8138.3	8218.6	8332.4	8515.4	8785.4	9068.8	9102.2	9457.1	9771.7	9936.8
10°	7495.6	7544.7	7660.8	7828.1	8080.2	8441.8	8823.3	8879.1	9396.8	9919.0	10209.1
12.5°	6873.0	6902.0	7042.6	7283.6	7654.1	8113.7	8615.8	8689.5	9358.9	10088.6	10530.4
15°	6399.9	6413.3	6547.2	6797.1	7221.1	7819.1	8455.1	8544.4	9367.8	10291.6	10880.8
17.5°	6279.5	6286.1	6357.5	6529.3	6904.3	7555.9	8327.9	8437.3	9394.6	10490.3	11233.3
20°	6768.2	6721.3	6647.6	6620.9	6781.5	7397.4	8252.1	8374.8	9430.3	10666.5	11550.3
22.5°	8109.2	7970.9	7665.1	7256.8	7009.2	7408.6	8272.1	8394.9	9544.1	10883.0	11916.2
25°	10099.7	9907.8	9387.9	8584.6	7812.4	7729.9	8439.5	8564.5	9765.0	11141.9	12266.5
27.5°	12364.7	12175.0	11539.1	10392.1	9075.5	8365.9	8823.3	8939.4	10093.0	11371.7	12534.3
30°	14533.7	14480.2	13730.4	12427.2	10664.4	9396.8	9318.7	9416.9	10336.3	11510.0	12746.3
32.5°	16372.5	16287.6	15685.2	14417.7	12483.0	10635.3	9901.1	9930.1	10519.2	11688.6	13023.0
35°	18077.3	17972.4	17443.6	16245.3	14348.5	12148.2	10798.2	10755.8	10918.7	12047.8	13424.7
37.5°	19565.8	19661.7	19074.8	17934.5	16022.2	13721.4	12007.6	11880.5	11543.6	12632.5	14007.1
40°	20811.0	20811.0	20505.2	19554.6	17829.6	15348.2	13375.6	13208.2	12483.0	13534.0	14745.7
42.5°	21259.4	21355.4	21469.2	20931.4	19447.5	17039.7	14899.7	14725.6	13806.3	14812.6	15678.5
45°	21286.2	21438.0	22020.4	22018.2	20909.1	18720.0	16618.0	16535.3	15502.2	16455.0	16834.4
47.5°	20909.1	21098.8	22058.3	22602.8	22067.2	20284.3	18496.9	18394.2	17494.9	18467.8	18043.9
50°	20326.6	20536.4	21652.2	22832.7	22855.0	21645.5	20476.2	20322.3	19688.4	20768.5	19293.5
52.5°	19284.6	19690.7	21288.5	22886.2	23372.7	22821.5	22359.6	22292.7	22143.2	22984.4	20288.7
55°	17055.3	17506.1	20375.7	22904.1	23852.5	23863.6	24124.7	24142.5	24443.8	25055.2	21029.6
57.5°	16002.0	16256.4	18782.5	22988.8	24564.3	25046.3	25923.3	26061.6	26528.1	27021.2	21875.3
60°	15339.3	15640.6	17997.0	22872.8	25682.3	26597.2	27590.2	27637.1	28136.9	29049.6	23020.1
62.5°	14810.4	15107.2	17501.6	22426.5	26938.6	28462.7	29219.2	29223.7	29598.5	31466.3	24321.0
65°	13505.0	13755.0	16499.7	21924.4	27768.7	30308.2	31111.5	31082.5	31388.2	34014.7	25831.8
67.5°	11617.1	11809.0	14453.4	20021.0	27456.3	31986.3	33967.9	33871.8	33501.4	36217.2	26425.4
70°	8981.8	9050.9	11391.8	16684.9	24528.6	32631.2	36728.1	36679.0	34798.0	35822.2	24249.7
71°	7424.2	7651.8	10039.5	14725.6	22567.1	32035.4	36995.9	37024.9	34472.1	34746.6	22752.3
72.5°	4311.2	4505.4	7276.9	11309.2	19159.6	29549.4	35607.9	35817.7	32950.2	31604.6	19434.1
75°	923.8	988.6	2697.9	5473.9	10539.3	20710.5	28105.7	28853.2	26856.1	21500.5	11713.1
77.5°	642.7	694.0	1156.0	2483.7	3483.3	10233.6	17459.3	18302.7	16044.4	8080.2	3748.9
80°	508.8	566.8	901.6	1227.3	941.7	3300.4	8178.4	8693.9	5351.1	1803.0	631.5
82.5°	283.4	336.9	702.9	662.8	361.5	627.0	2289.6	2588.5	1071.1	363.8	149.5
85°	82.5	100.4	453.0	482.0	154.0	120.5	390.5	484.2	203.1	95.9	67.0
87.5°	0.0	0.0	218.7	185.2	44.6	17.9	35.7	40.1	40.1	40.1	44.6
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°	9584.2	9584.2	9584.2	9584.2	9584.2	9584.2	9584.2	9584.2	9584.2	9584.2	9584.2
2.5°	9622.2	9637.8	9582.1	9508.4	9430.3	9334.4	9234.0	9155.8	9153.6	9115.7	9077.7
5°	9740.4	9731.5	9577.6	9343.2	9066.6	8778.7	8504.2	8194.1	8091.4	7964.2	7921.8
7.5°	9959.2	9896.7	9570.9	9057.6	8450.6	7848.2	7225.5	6598.5	6330.7	6089.7	6047.3
10°	10233.6	10115.4	9528.5	8629.2	7515.6	6404.4	5464.9	4612.5	4237.6	3949.8	3936.3
12.5°	10519.2	10338.5	9410.2	7982.1	6290.6	4728.5	3646.3	2807.2	2494.8	2293.9	2311.8
15°	10818.2	10548.3	9155.8	7109.6	4895.9	3208.9	2240.5	1747.3	1622.3	1571.0	1584.4
17.5°	11124.0	10693.3	8801.0	6058.5	3519.1	2070.8	1550.9	1412.5	1412.5	1423.7	1428.2
20°	11389.6	10771.4	8278.8	4880.3	2385.5	1508.5	1356.7	1336.7	1347.9	1365.6	1367.9
22.5°	11652.8	10775.9	7598.3	3686.4	1669.1	1321.0	1292.1	1283.1	1289.8	1309.8	1312.1
25°	11867.1	10722.3	6745.8	2622.0	1332.2	1245.2	1231.8	1227.3	1231.8	1256.3	1256.3
27.5°	11954.1	10528.2	5705.9	1843.3	1193.9	1160.3	1156.0	1160.3	1167.0	1184.9	1187.2
30°	11963.0	10189.0	4572.3	1334.4	1082.3	1046.6	1055.5	1071.1	1064.4	1059.9	1064.4
32.5°	11985.4	9796.2	3467.8	1097.9	988.6	932.8	921.6	921.6	894.8	879.2	870.3
35°	12059.0	9334.4	2514.9	986.3	892.6	827.9	785.5	736.4	685.1	658.3	651.6
37.5°	12175.0	8850.1	1800.8	912.6	807.8	734.2	653.9	566.8	493.2	473.0	473.0
40°	12387.1	8350.3	1332.2	854.7	740.9	649.4	528.8	415.1	348.1	336.9	336.9
42.5°	12721.8	7823.6	1062.2	803.4	682.8	562.4	403.9	301.3	252.2	245.5	243.2
45°	13069.9	7243.4	928.3	754.3	620.3	462.0	299.0	223.1	194.1	187.4	187.4
47.5°	13418.0	6625.4	863.5	707.4	560.1	359.3	223.1	176.2	162.9	162.9	165.2
50°	13712.6	5980.4	816.7	656.1	482.0	272.2	176.2	149.5	145.0	154.0	156.2
52.5°	13786.2	5346.6	758.7	591.3	386.0	207.5	145.0	131.6	131.6	131.6	131.6
55°	13741.5	4855.7	682.8	511.0	285.6	165.2	124.9	116.1	113.8	113.8	113.8
57.5°	13893.3	4565.6	546.7	397.2	205.3	133.9	109.4	102.7	98.2	95.9	95.9
60°	14199.0	4375.9	390.5	285.6	154.0	111.6	93.7	87.0	80.3	75.8	75.8
62.5°	14605.2	4210.9	290.1	212.0	118.3	89.2	78.1	71.4	62.5	58.0	58.0
65°	14917.5	3916.3	221.0	158.5	89.2	71.4	60.3	58.0	44.6	40.1	37.9
67.5°	14440.0	3269.2	178.5	116.1	67.0	55.8	46.9	44.6	26.7	22.4	22.4
70°	12384.8	2276.1	142.8	84.8	49.1	44.6	37.9	29.0	20.1	17.9	17.9
71°	11231.1	1901.2	129.4	71.4	42.4	42.4	35.7	24.6	17.9	15.6	15.6
72.5°	9329.9	1350.1	109.4	55.8	37.9	44.6	37.9	22.4	17.9	15.6	13.4
75°	5415.8	564.6	75.8	37.9	29.0	53.6	49.1	20.1	13.4	11.2	11.2
77.5°	1629.0	207.5	42.4	24.6	22.4	46.9	55.8	17.9	6.7	2.2	2.2
80°	296.8	89.2	26.7	15.6	15.6	29.0	42.4	8.9	0.0	0.0	0.0
82.5°	104.9	44.6	15.6	8.9	6.7	13.4	20.1	0.0	0.0	0.0	0.0
85°	60.3	31.2	8.9	4.5	0.0	2.2	4.5	0.0	0.0	0.0	0.0
87.5°	40.1	8.9	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)