

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: P321662

Luminaire Tested: **GAN-SA8D-750-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321662
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-SA8D-750-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 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: 47825 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

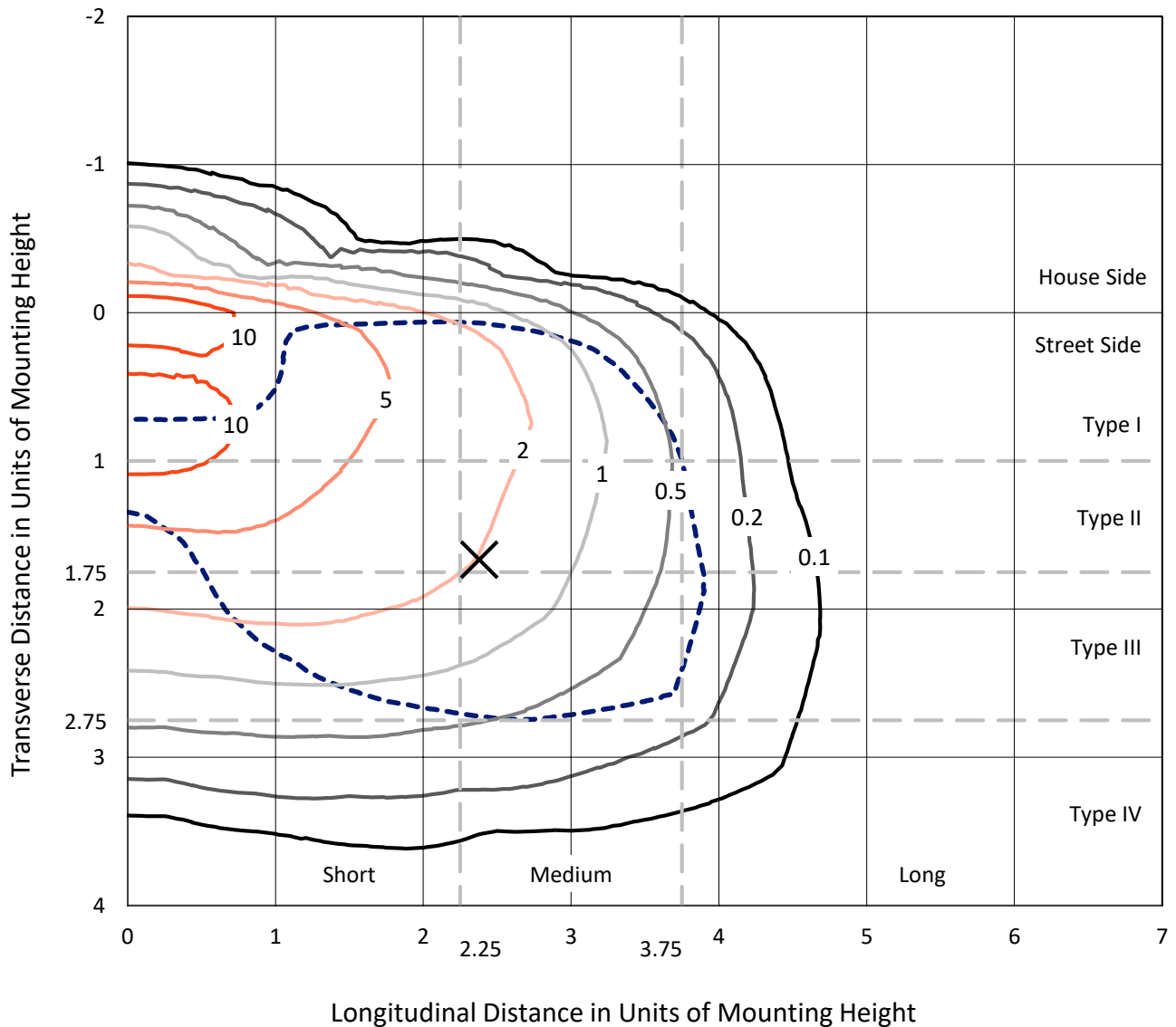
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

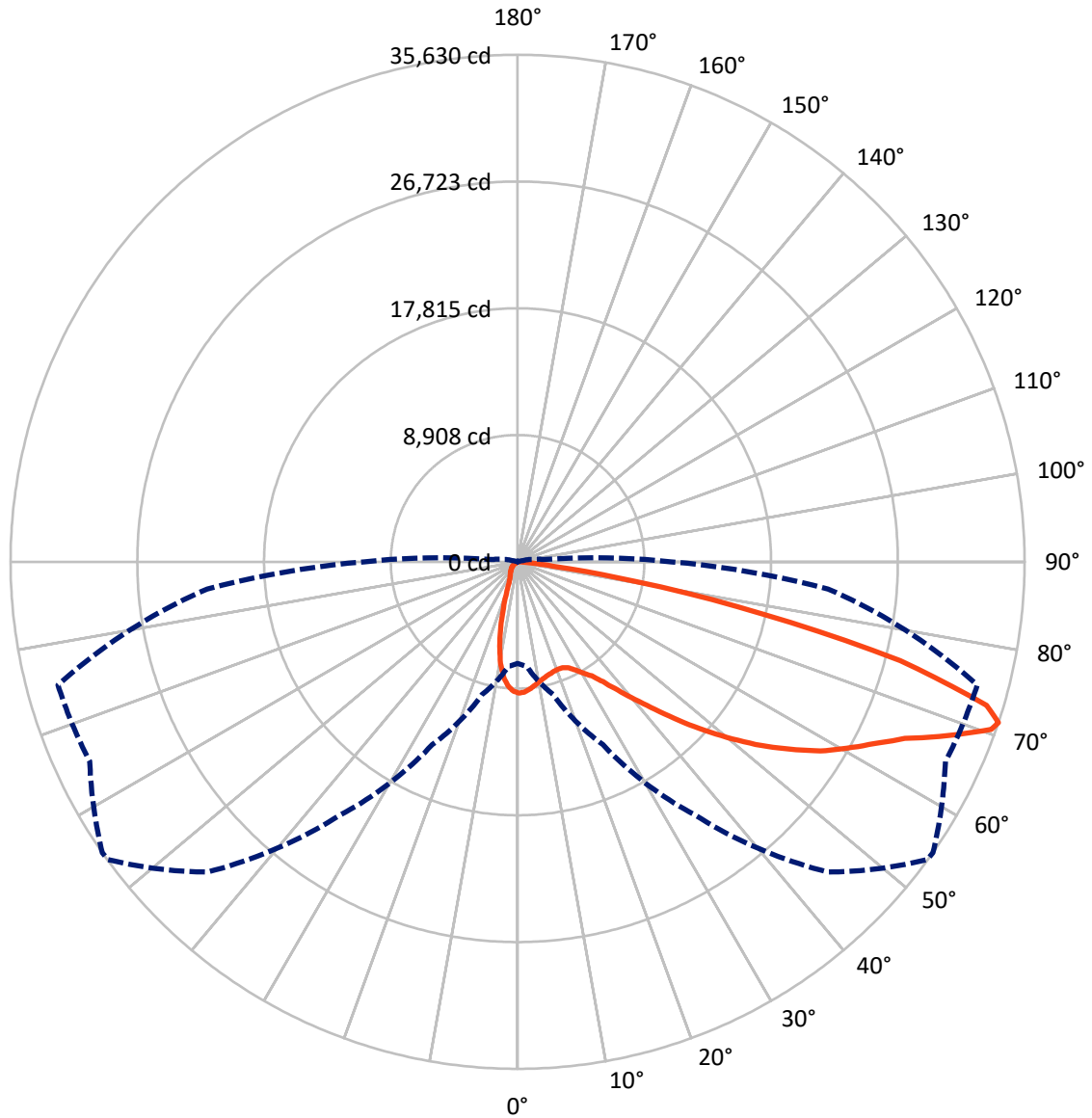
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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	3786.4	0.0	3786.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	44038.6	0.0	44038.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	47825.0	0.0	47825.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	786.4	1.6
10°-20°	1775.4	3.7
20°-30°	2853.1	6.0
30°-40°	4847.5	10.1
40°-50°	7523.9	15.7
50°-60°	10115.7	21.2
60°-70°	12374.9	25.9
70°-80°	7235.3	15.1
80°-90°	312.8	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°	47825.0	100.0
0°-180°	47825.0	100.0

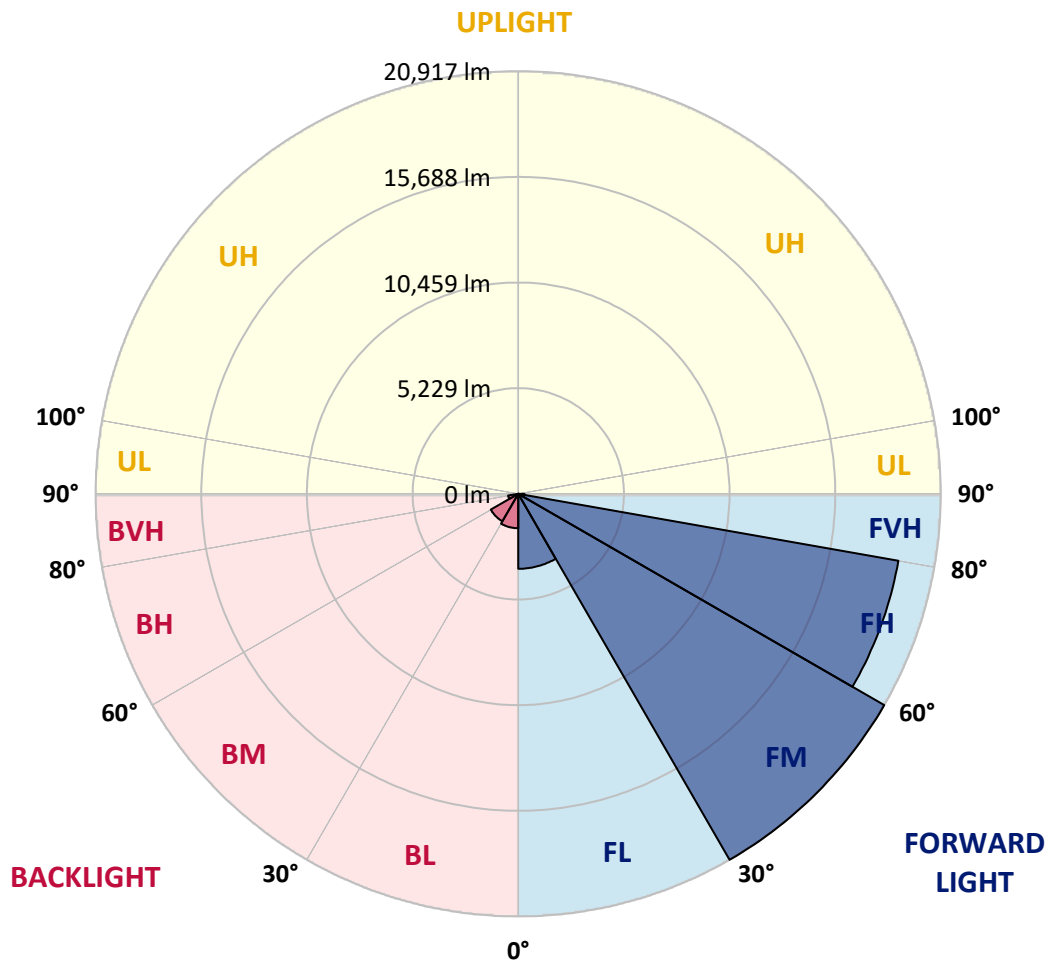


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3710.6	7.8			
FM (30°-60°)	20917.3	43.7			
FH (60°-80°)	19102.9	39.9			G5
FVH (80°-90°)	307.8	0.6			G3/500
BL (0°-30°)	1704.3	3.6	B3/2500		
BM (30°-60°)	1569.9	3.3	B2/2500		
BH (60°-80°)	507.3	1.1	B2/1000		G2/1000
BVH (80°-90°)	4.9	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°	9223.2	9223.2	9223.2	9223.2	9223.2	9223.2	9223.2	9223.2	9223.2	9223.2	9223.2
2.5°	8952.6	8963.4	9002.0	9019.2	9060.0	9128.7	9163.1	9165.2	9221.1	9242.5	9259.7
5°	8319.2	8383.6	8448.0	8516.7	8641.3	8806.6	8969.8	8984.9	9165.2	9298.4	9369.2
7.5°	7773.7	7831.7	7909.0	8018.5	8194.6	8454.4	8727.2	8759.4	9100.8	9403.6	9562.5
10°	7213.2	7260.5	7372.1	7533.2	7775.9	8123.7	8490.9	8544.6	9042.8	9545.3	9824.5
12.5°	6614.1	6642.0	6777.3	7009.2	7365.7	7808.1	8291.2	8362.1	9006.3	9708.5	10133.7
15°	6158.8	6171.7	6300.6	6541.1	6949.1	7524.6	8136.6	8222.5	9014.9	9904.0	10470.9
17.5°	6042.9	6049.3	6118.0	6283.4	6644.2	7271.2	8014.2	8119.4	9040.7	10095.1	10810.2
20°	6513.2	6468.1	6397.2	6371.4	6526.0	7118.7	7941.2	8059.3	9075.0	10264.7	11115.1
22.5°	7803.8	7670.6	7376.4	6983.5	6745.1	7129.5	7960.5	8078.6	9184.6	10473.0	11467.3
25°	9719.3	9534.6	9034.2	8261.2	7518.2	7438.7	8121.6	8241.8	9397.2	10722.1	11804.4
27.5°	11898.9	11716.4	11104.4	10000.6	8733.6	8050.7	8490.9	8602.6	9712.8	10943.3	12062.1
30°	13986.2	13934.7	13213.2	11959.1	10262.6	9042.8	8967.7	9062.2	9946.9	11076.5	12266.1
32.5°	15755.7	15674.1	15094.3	13874.6	12012.7	10234.7	9528.2	9556.1	10123.0	11248.3	12532.4
35°	17396.4	17295.4	16786.5	15633.3	13808.0	11690.6	10391.4	10350.6	10507.4	11594.0	12919.0
37.5°	18828.7	18921.0	18356.3	17258.9	15418.6	13204.6	11555.3	11432.9	11108.7	12156.6	13479.4
40°	20027.0	20027.0	19732.8	18818.0	17158.0	14770.0	12871.7	12710.7	12012.7	13024.2	14190.2
42.5°	20458.6	20550.9	20660.4	20142.9	18714.9	16397.8	14338.4	14170.9	13286.2	14254.7	15087.9
45°	20484.4	20630.4	21190.9	21188.7	20121.4	18014.8	15991.9	15912.5	14918.2	15835.2	16200.2
47.5°	20121.4	20304.0	21227.4	21751.3	21236.0	19520.2	17800.1	17701.3	16835.9	17772.2	17364.1
50°	19561.0	19762.8	20836.5	21972.5	21994.0	20830.1	19704.8	19556.7	18946.8	19986.2	18566.7
52.5°	18558.1	18948.9	20486.5	22024.1	22492.2	21961.8	21517.3	21452.9	21309.0	22118.6	19524.5
55°	16412.8	16846.6	19608.2	22041.2	22953.9	22964.6	23215.9	23233.1	23523.0	24111.4	20237.4
57.5°	15399.2	15644.0	18074.9	22122.9	23638.9	24102.8	24946.7	25079.9	25528.7	26003.3	21051.3
60°	14761.5	15051.4	17319.0	22011.2	24714.8	25595.2	26550.9	26596.0	27077.0	27955.3	22152.9
62.5°	14252.5	14538.1	16842.3	21581.7	25923.8	27390.5	28118.5	28122.8	28483.5	30280.9	23404.9
65°	12996.3	13236.8	15878.1	21098.5	26722.7	29166.4	29939.5	29911.6	30205.8	32733.3	24858.7
67.5°	11179.5	11364.2	13908.9	19266.8	26422.0	30781.3	32688.2	32595.9	32239.4	34852.8	25429.9
70°	8643.4	8710.0	10962.6	16056.4	23604.6	31401.9	35344.6	35297.3	33487.1	34472.7	23336.1
71°	7144.5	7363.5	9661.3	14170.9	21717.0	30828.5	35602.3	35630.2	33173.5	33437.7	21895.2
72.5°	4148.8	4335.7	7002.8	10883.2	18437.9	28436.3	34266.6	34468.4	31709.0	30414.1	18702.0
75°	889.0	951.3	2596.2	5267.7	10142.3	19930.3	27046.9	27766.3	25844.4	20690.5	11271.9
77.5°	618.5	667.9	1112.4	2390.1	3352.1	9848.1	16801.5	17613.2	15440.0	7775.9	3607.7
80°	489.6	545.4	867.6	1181.1	906.2	3176.1	7870.3	8366.4	5149.5	1735.1	607.7
82.5°	272.7	324.3	676.4	637.8	347.9	603.4	2203.3	2491.0	1030.8	350.0	143.9
85°	79.5	96.6	435.9	463.8	148.2	116.0	375.8	466.0	195.4	92.3	64.4
87.5°	0.0	0.0	210.4	178.2	42.9	17.2	34.4	38.7	38.7	38.7	42.9
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°	9223.2	9223.2	9223.2	9223.2	9223.2	9223.2	9223.2	9223.2	9223.2	9223.2	9223.2
2.5°	9259.7	9274.8	9221.1	9150.2	9075.0	8982.7	8886.1	8810.9	8808.8	8772.3	8735.8
5°	9373.5	9365.0	9216.8	8991.3	8725.0	8448.0	8183.9	7885.4	7786.6	7664.2	7623.4
7.5°	9584.0	9523.9	9210.3	8716.4	8132.3	7552.5	6953.4	6350.0	6092.3	5860.3	5819.5
10°	9848.1	9734.3	9169.5	8304.1	7232.6	6163.1	5259.1	4438.7	4078.0	3801.0	3788.1
12.5°	10123.0	9949.1	9055.7	7681.4	6053.6	4550.4	3508.9	2701.5	2400.8	2207.6	2224.7
15°	10410.8	10150.9	8810.9	6841.7	4711.5	3088.0	2156.0	1681.4	1561.2	1511.8	1524.7
17.5°	10705.0	10290.5	8469.5	5830.3	3386.5	1992.8	1492.5	1359.3	1359.3	1370.1	1374.4
20°	10960.5	10365.7	7967.0	4696.4	2295.6	1451.7	1305.6	1286.3	1297.0	1314.2	1316.4
22.5°	11213.9	10370.0	7312.0	3547.6	1606.3	1271.3	1243.4	1234.8	1241.2	1260.5	1262.7
25°	11420.0	10318.4	6491.7	2523.2	1282.0	1198.3	1185.4	1181.1	1185.4	1209.0	1209.0
27.5°	11503.8	10131.6	5491.0	1773.8	1148.9	1116.7	1112.4	1116.7	1123.1	1140.3	1142.4
30°	11512.4	9805.2	4400.1	1284.2	1041.5	1007.1	1015.7	1030.8	1024.3	1020.0	1024.3
32.5°	11533.9	9427.2	3337.1	1056.5	951.3	897.6	886.9	886.9	861.1	846.1	837.5
35°	11604.7	8982.7	2420.2	949.2	859.0	796.7	755.9	708.7	659.3	633.5	627.1
37.5°	11716.4	8516.7	1733.0	878.3	777.4	706.5	629.2	545.4	474.6	455.3	455.3
40°	11920.4	8035.7	1282.0	822.5	712.9	624.9	508.9	399.4	335.0	324.3	324.3
42.5°	12242.5	7528.9	1022.2	773.1	657.1	541.2	388.7	289.9	242.7	236.2	234.1
45°	12577.5	6970.6	893.3	725.8	597.0	444.5	287.8	214.7	186.8	180.4	180.4
47.5°	12912.5	6375.7	831.1	680.7	539.0	345.7	214.7	169.6	156.8	156.8	158.9
50°	13196.0	5755.1	786.0	631.3	463.8	262.0	169.6	143.9	139.6	148.2	150.3
52.5°	13266.8	5145.2	730.1	569.1	371.5	199.7	139.6	126.7	126.7	126.7	126.7
55°	13223.9	4672.8	657.1	491.8	274.9	158.9	120.3	111.7	109.5	109.5	109.5
57.5°	13369.9	4393.6	526.1	382.2	197.6	128.8	105.2	98.8	94.5	92.3	92.3
60°	13664.1	4211.1	375.8	274.9	148.2	107.4	90.2	83.7	77.3	73.0	73.0
62.5°	14054.9	4052.2	279.2	204.0	113.8	85.9	75.2	68.7	60.1	55.8	55.8
65°	14355.6	3768.7	212.6	152.5	85.9	68.7	58.0	55.8	42.9	38.7	36.5
67.5°	13896.0	3146.0	171.8	111.7	64.4	53.7	45.1	42.9	25.8	21.5	21.5
70°	11918.3	2190.4	137.4	81.6	47.2	42.9	36.5	27.9	19.3	17.2	17.2
71°	10808.0	1829.6	124.6	68.7	40.8	40.8	34.4	23.6	17.2	15.0	15.0
72.5°	8978.4	1299.2	105.2	53.7	36.5	42.9	36.5	21.5	17.2	15.0	12.9
75°	5211.8	543.3	73.0	36.5	27.9	51.5	47.2	19.3	12.9	10.7	10.7
77.5°	1567.6	199.7	40.8	23.6	21.5	45.1	53.7	17.2	6.4	2.1	2.1
80°	285.6	85.9	25.8	15.0	15.0	27.9	40.8	8.6	0.0	0.0	0.0
82.5°	100.9	42.9	15.0	8.6	6.4	12.9	19.3	0.0	0.0	0.0	0.0
85°	58.0	30.1	8.6	4.3	0.0	2.1	4.3	0.0	0.0	0.0	0.0
87.5°	38.7	8.6	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)