

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: P321274

Luminaire Tested: **GAN-SA0A-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37232 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

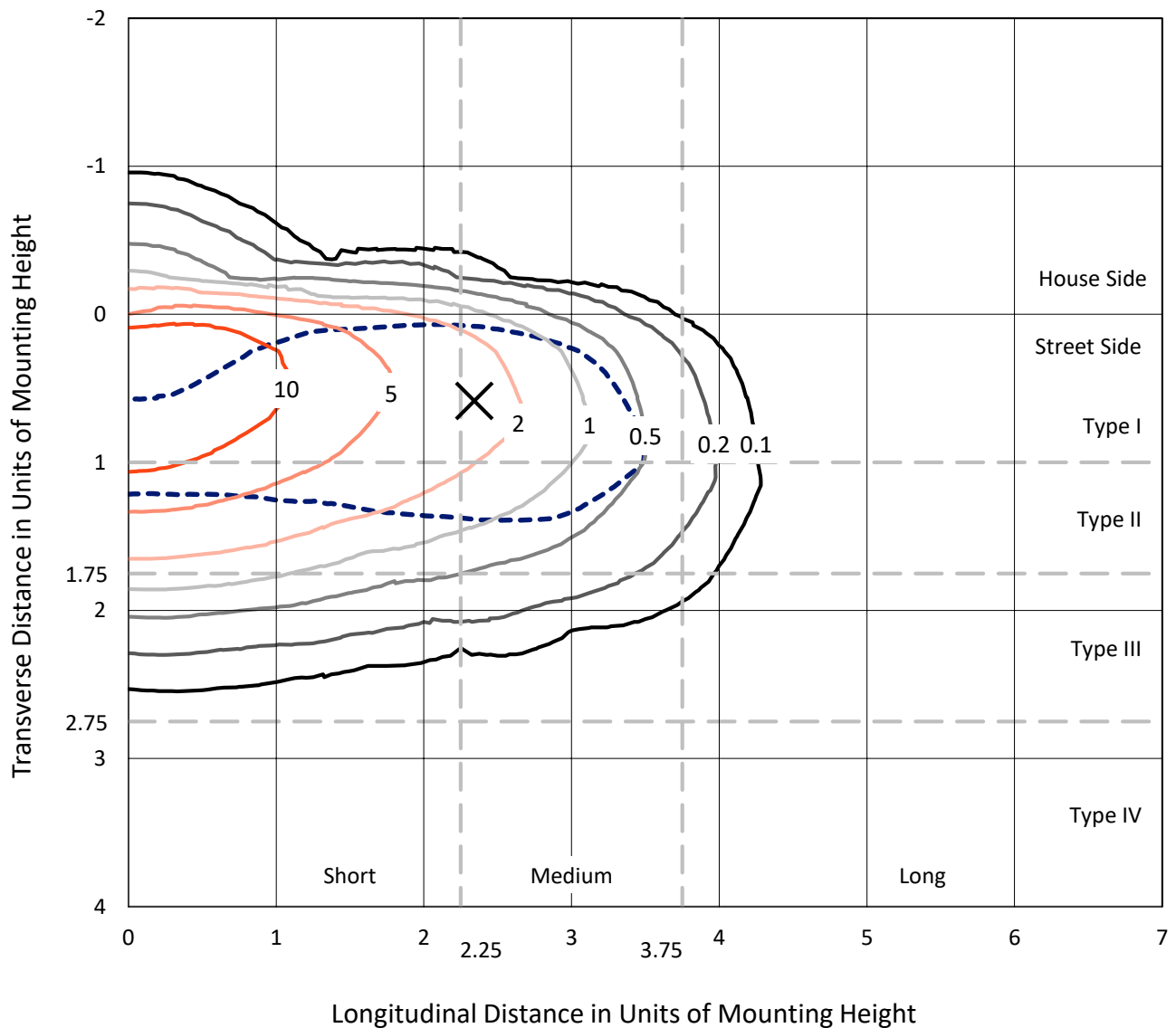
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

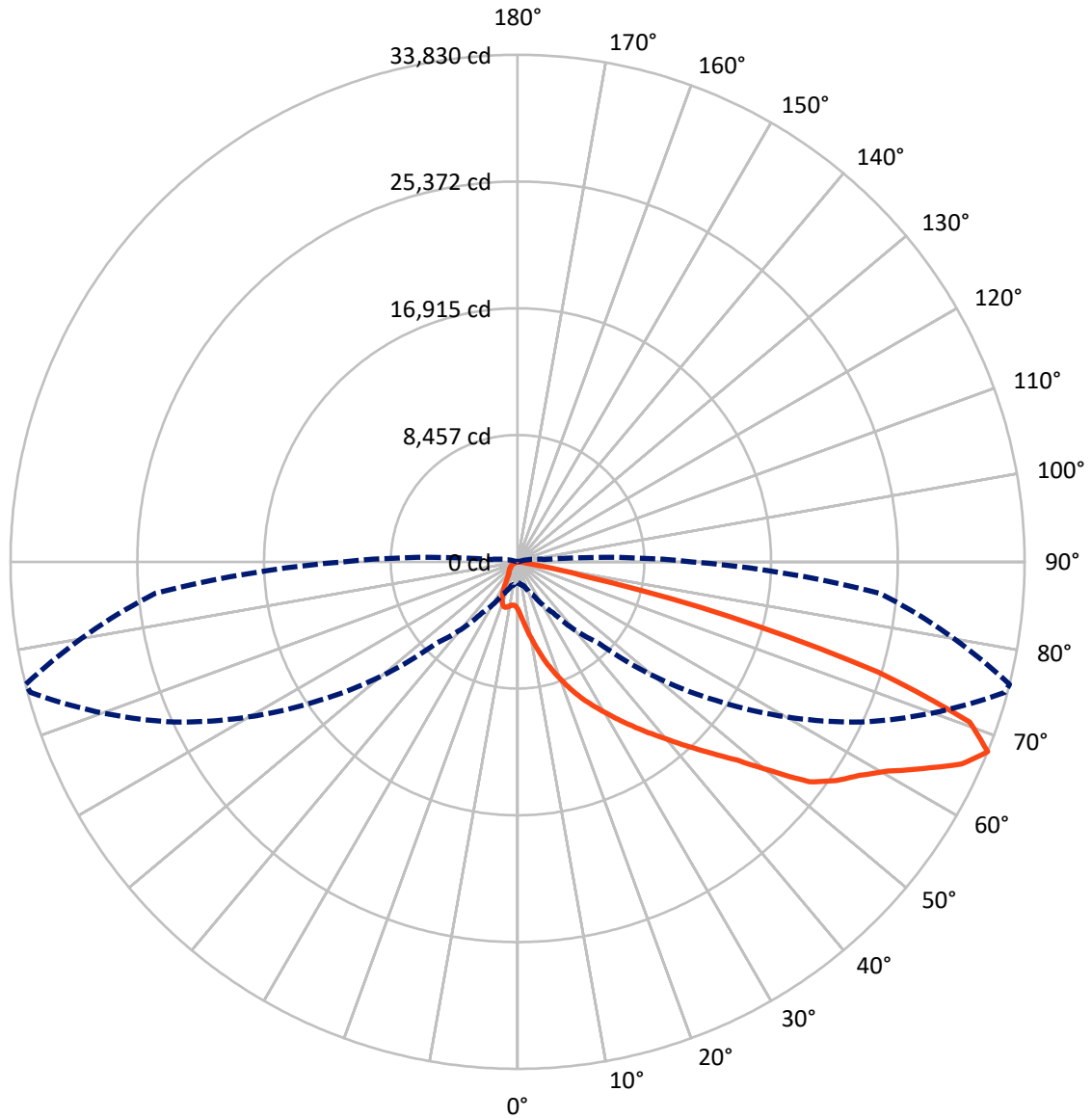
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1848.8	0.0	1848.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	35383.2	0.0	35383.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	37232.0	0.0	37232.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.7	1.1
10°-20°	1556.9	4.2
20°-30°	3167.7	8.5
30°-40°	5498.1	14.8
40°-50°	7768.1	20.9
50°-60°	8809.4	23.7
60°-70°	7306.6	19.6
70°-80°	2646.7	7.1
80°-90°	85.8	0.2
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°	37232.0	100.0
0°-180°	37232.0	100.0

Coefficient of Utilization

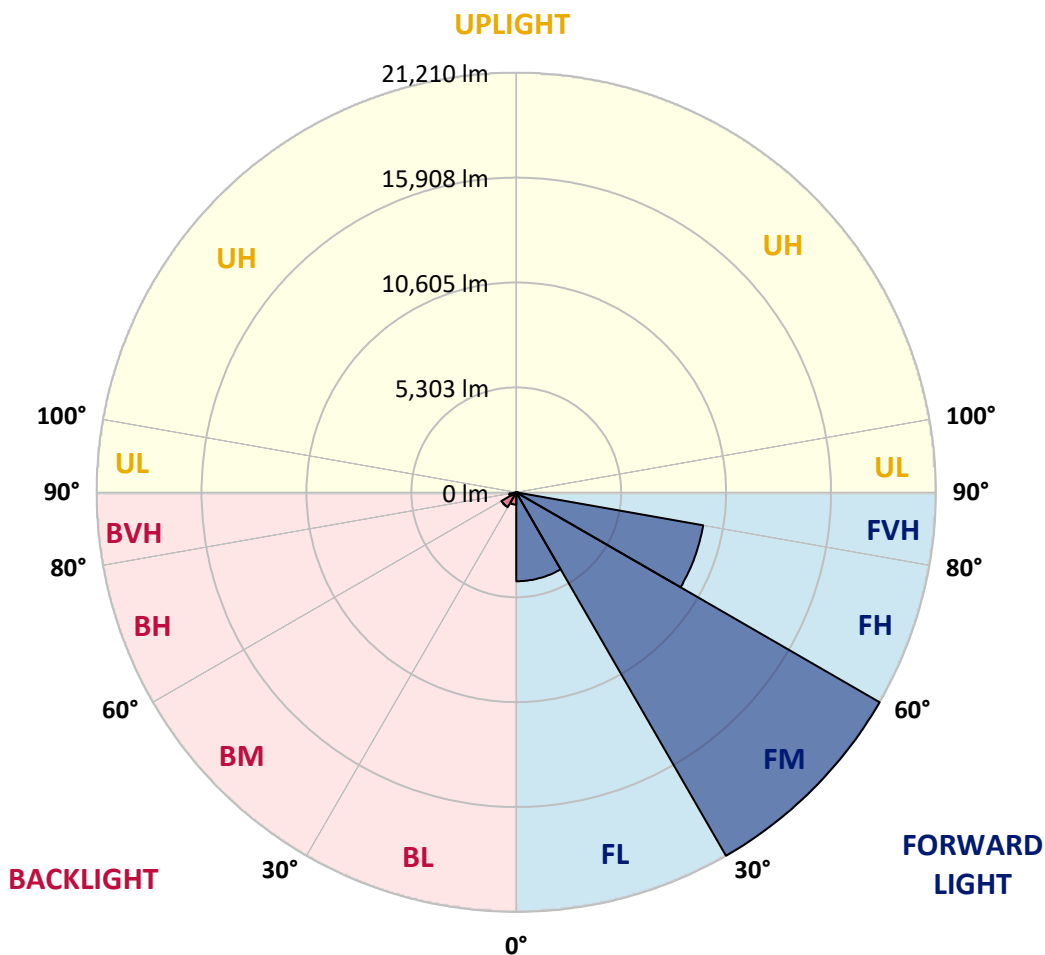


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4493.8	12.1			
FM (30°-60°)	21210.3	57.0			
FH (60°-80°)	9595.9	25.8			G4/12000
FVH (80°-90°)	83.1	0.2			G1/100
BL (0°-30°)	623.5	1.7	B2/1000		
BM (30°-60°)	865.3	2.3	B1/1000		
BH (60°-80°)	357.3	1.0	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4
2.5°	4714.7	4608.6	4633.1	4564.6	4440.6	4186.1	3969.1	3763.6	3523.8	3515.6	3318.2
5°	6357.5	6267.8	6256.3	6117.7	5892.5	5460.2	5039.3	4559.7	4024.6	3985.5	3566.2
7.5°	7848.6	7776.8	7750.7	7585.9	7166.7	6745.8	6197.6	5492.9	4656.0	4584.2	3900.6
10°	8993.8	8959.5	8966.1	8848.6	8489.7	8098.2	7378.7	6479.8	5372.1	5261.2	4301.9
12.5°	9861.7	9869.8	9928.6	9856.8	9656.1	9365.8	8597.4	7532.1	6165.0	6013.3	4760.4
15°	10499.6	10540.3	10648.0	10737.7	10723.1	10471.8	9767.1	8600.6	7006.8	6838.7	5271.0
17.5°	10912.3	10958.0	11114.6	11313.6	11496.3	11437.6	10896.0	9631.7	7858.4	7664.2	5817.5
20°	11274.5	11328.3	11496.3	11759.0	12099.9	12173.4	11817.7	10631.7	8708.3	8471.8	6382.0
22.5°	12059.2	12057.5	12160.3	12313.7	12638.3	12827.5	12602.4	11560.0	9548.5	9302.1	6957.8
25°	13478.5	13424.6	13388.7	13268.0	13339.8	13457.3	13331.6	12427.9	10393.5	10143.9	7541.9
27.5°	15165.3	15197.9	14907.6	14582.9	14331.7	14211.0	14005.4	13232.1	11206.0	10931.9	8112.9
30°	16945.1	16954.9	16612.3	16198.0	15644.9	15186.5	14830.9	14000.5	12041.2	11742.7	8667.5
32.5°	18550.4	18486.8	18147.5	17583.0	16884.8	16369.3	15630.3	14858.6	12925.4	12636.7	9284.2
35°	19822.9	19747.9	19335.1	18821.2	18096.9	17578.1	16689.0	15715.1	13855.3	13573.1	9902.5
37.5°	20752.8	20664.7	20240.5	19712.0	19087.1	18785.3	17917.4	16646.6	14870.0	14566.6	10553.4
40°	21075.8	20999.1	20733.2	20346.6	19844.1	19775.6	19220.9	17718.4	15974.5	15651.5	11290.8
42.5°	20883.3	20808.3	20713.6	20583.1	20374.3	20439.6	20451.0	18940.3	17201.3	16883.2	12104.8
45°	20119.8	20052.9	20150.8	20341.7	20601.1	20924.1	21573.4	20253.6	18571.6	18232.3	13046.1
47.5°	18995.8	18946.8	19217.7	19694.0	20452.6	21343.3	22599.5	21633.7	20110.0	19795.2	14220.7
50°	17397.0	17388.9	17930.5	18800.0	19966.5	21545.6	23659.9	23203.1	22247.1	21916.0	15853.8
52.5°	14907.6	14923.9	15989.2	17380.7	19113.2	21408.6	24341.8	25219.5	24733.4	24389.1	17268.2
55°	12537.2	12635.0	13390.4	15397.0	17804.9	20899.6	24576.7	26160.8	26105.3	25779.1	18054.5
57.5°	10215.7	10393.5	11121.1	12995.6	15894.5	19726.6	24447.9	26568.7	27126.6	26877.0	19092.0
60°	7700.1	7781.7	8620.2	10372.3	13442.6	17586.3	23513.1	26790.5	28523.1	28350.1	20597.8
62.5°	4899.0	5103.0	5846.9	7537.0	10466.9	14613.9	21937.2	26787.3	30270.3	30364.9	22540.8
65°	2580.8	2819.0	3213.8	4670.6	7192.8	11294.0	19566.8	26536.0	32413.9	32546.0	24059.6
67.5°	1391.6	1460.1	1668.9	2424.2	4171.4	7651.2	16083.8	25296.2	33655.4	33829.9	24271.7
70°	1018.0	1055.5	1133.8	1341.0	2099.6	4443.9	11736.1	22485.3	32055.0	31989.7	21565.2
72.5°	781.4	840.2	898.9	982.1	1207.2	2372.0	7307.0	17607.5	25576.8	25146.1	16119.7
75°	616.7	626.4	709.7	784.7	905.4	1350.8	3244.8	10254.9	15610.7	14591.1	8359.2
77.5°	492.7	499.2	548.1	613.4	727.6	887.5	1004.9	4034.4	4983.9	4447.1	1814.1
80°	292.0	308.3	407.8	473.1	603.6	559.6	367.1	876.1	778.2	704.8	305.1
82.5°	163.1	176.2	230.0	373.6	420.9	267.5	182.7	236.6	182.7	177.8	86.5
85°	0.0	8.2	148.5	231.7	171.3	58.7	76.7	78.3	53.8	50.6	34.3
87.5°	0.0	0.0	45.7	44.0	6.5	9.8	17.9	26.1	21.2	21.2	17.9
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°	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4
2.5°	3220.3	3132.2	2965.8	2802.7	2665.7	2553.1	2452.0	2411.2	2378.6	2373.7	2347.6
5°	3363.9	3186.1	2868.0	2606.9	2432.4	2308.4	2202.4	2137.1	2086.5	2067.0	2049.0
7.5°	3580.9	3311.7	2854.9	2554.7	2345.9	2137.1	1941.3	1729.3	1597.1	1546.5	1517.2
10°	3845.2	3478.1	2903.9	2540.1	2174.6	1734.2	1409.5	1140.3	1031.0	995.1	985.4
12.5°	4153.5	3685.3	2988.7	2448.7	1809.2	1231.7	972.3	880.9	856.5	845.1	845.1
15°	4507.5	3912.0	3049.0	2184.4	1337.7	931.5	841.8	799.4	773.3	758.6	760.2
17.5°	4869.7	4133.9	3019.7	1801.0	987.0	828.7	761.9	716.2	680.3	665.6	662.3
20°	5235.1	4339.5	2856.5	1341.0	835.3	752.1	677.0	626.4	590.6	575.9	572.6
22.5°	5613.6	4514.0	2569.4	983.7	750.4	667.2	593.8	543.2	509.0	495.9	489.4
25°	5982.3	4656.0	2168.1	796.1	670.5	587.3	517.1	469.8	438.8	425.8	424.2
27.5°	6326.5	4745.7	1703.2	703.1	600.3	515.5	451.9	409.5	383.4	373.6	372.0
30°	6636.5	4753.8	1259.4	634.6	538.4	453.5	394.8	357.3	334.4	324.6	321.4
32.5°	6949.7	4685.3	916.8	572.6	481.3	399.7	342.6	313.2	296.9	288.8	288.8
35°	7245.0	4527.1	714.5	518.8	425.8	347.5	301.8	280.6	270.8	262.7	262.7
37.5°	7533.7	4300.3	606.9	471.5	373.6	303.4	265.9	252.9	244.7	236.6	236.6
40°	7827.4	4014.8	551.4	427.4	331.2	269.2	236.6	225.1	217.0	210.4	208.8
42.5°	8187.9	3685.3	515.5	386.6	293.6	238.2	208.8	195.8	189.2	182.7	179.5
45°	8605.5	3401.4	486.2	345.9	262.7	212.1	181.1	168.0	158.2	150.1	148.5
47.5°	9207.5	3195.9	447.0	301.8	233.3	184.3	156.6	141.9	127.2	119.1	117.5
50°	9975.9	3026.2	396.4	262.7	203.9	156.6	130.5	112.6	99.5	91.4	91.4
52.5°	10357.6	2804.3	350.7	228.4	171.3	132.1	106.0	84.8	78.3	70.1	70.1
55°	10511.0	2634.7	305.1	194.1	141.9	109.3	83.2	65.3	60.4	55.5	53.8
57.5°	10941.7	2585.7	265.9	164.8	117.5	86.5	63.6	48.9	45.7	39.2	39.2
60°	11635.0	2610.2	230.0	140.3	94.6	66.9	47.3	37.5	34.3	27.7	27.7
62.5°	12383.8	2579.2	194.1	120.7	73.4	48.9	32.6	27.7	27.7	16.3	14.7
65°	12527.4	2297.0	166.4	99.5	57.1	35.9	21.2	17.9	24.5	3.3	0.0
67.5°	11626.8	1781.5	143.6	76.7	42.4	27.7	16.3	8.2	21.2	0.0	0.0
70°	9297.2	1132.2	115.8	55.5	32.6	22.8	13.1	3.3	16.3	0.0	0.0
72.5°	6574.5	657.4	91.4	39.2	27.7	17.9	9.8	0.0	9.8	0.0	0.0
75°	3324.8	350.7	57.1	29.4	21.2	13.1	6.5	0.0	1.6	0.0	0.0
77.5°	719.4	163.1	35.9	21.2	14.7	8.2	3.3	0.0	0.0	0.0	0.0
80°	156.6	71.8	22.8	13.1	8.2	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	57.1	37.5	11.4	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.0	19.6	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.3	6.5	1.6	1.6	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)