

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: P321233

Luminaire Tested: **GAN-SA9A-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321233
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-SA9A-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 30626 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

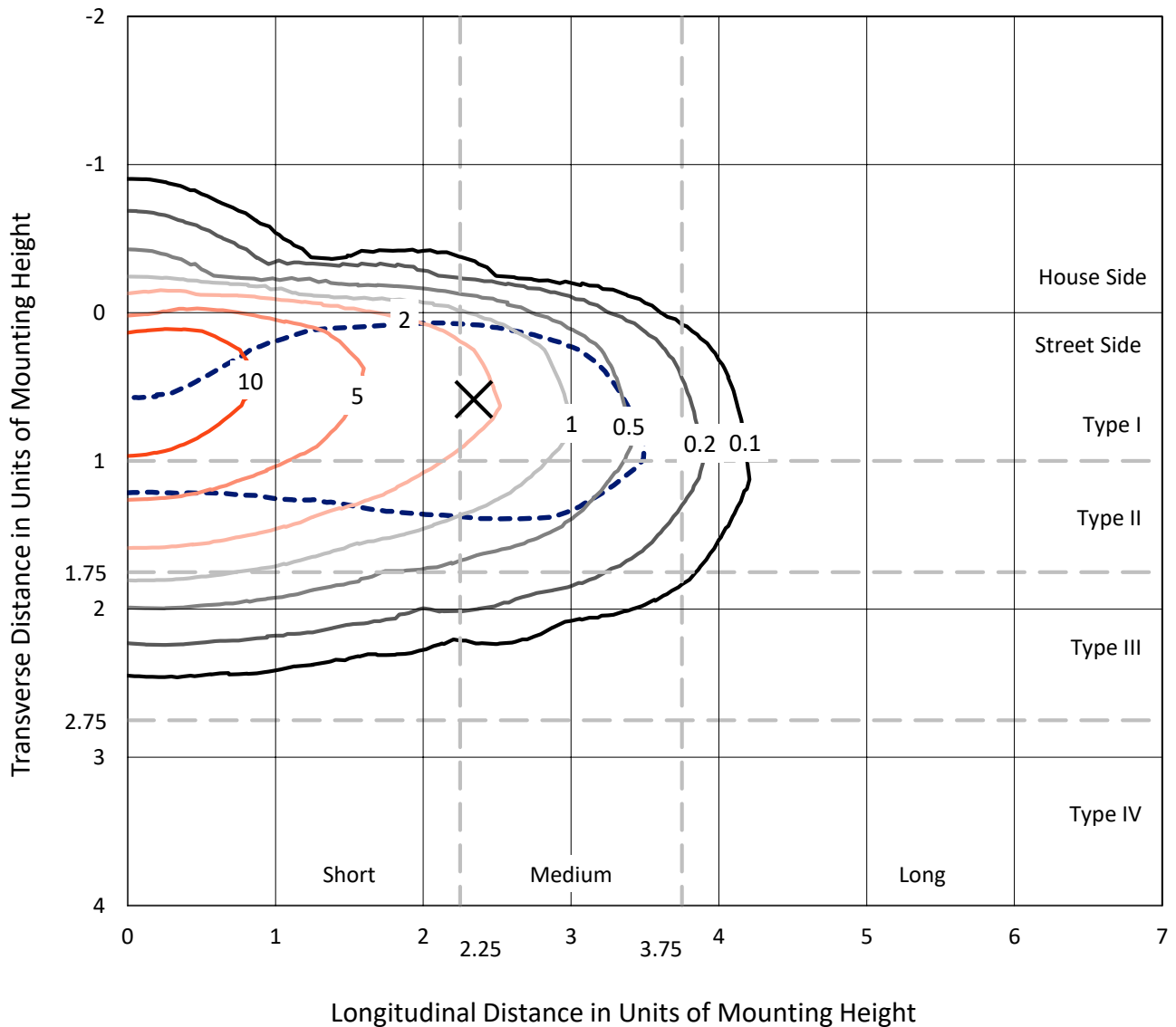
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

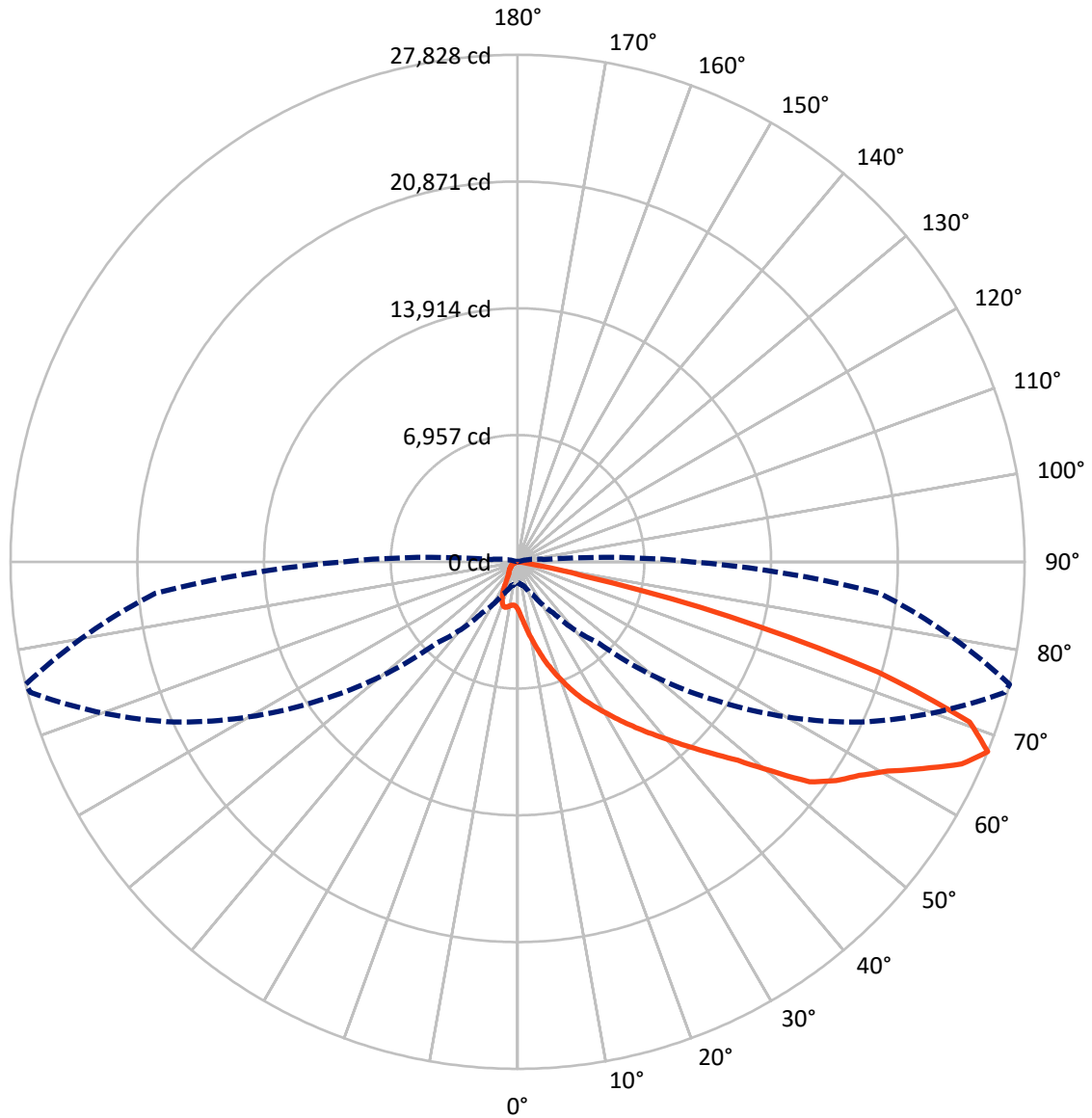
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	1520.8	0.0	1520.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	29105.2	0.0	29105.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	30626.0	0.0	30626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.1	1.1
10°-20°	1280.6	4.2
20°-30°	2605.7	8.5
30°-40°	4522.6	14.8
40°-50°	6389.8	20.9
50°-60°	7246.4	23.7
60°-70°	6010.2	19.6
70°-80°	2177.1	7.1
80°-90°	70.6	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°	30626.0	100.0
0°-180°	30626.0	100.0

Coefficient of Utilization

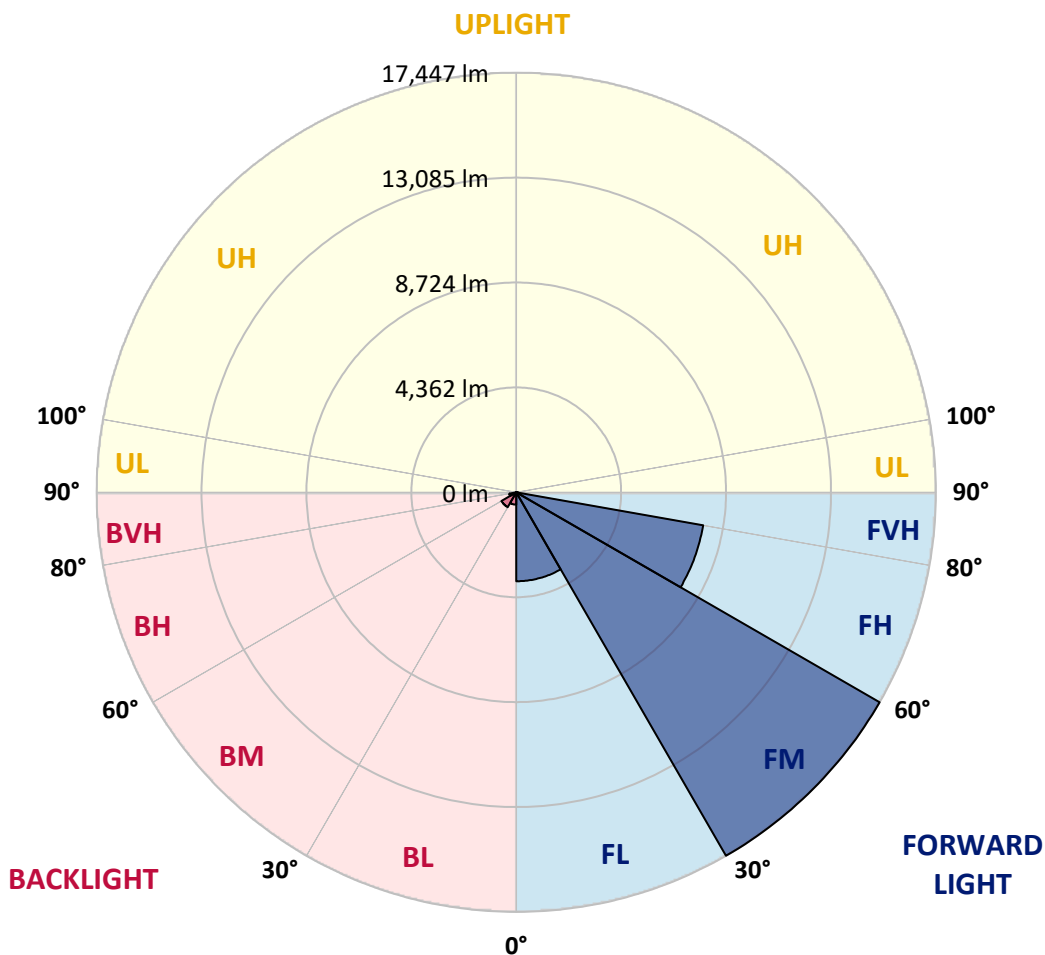


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3696.5	12.1			
FM (30°-60°)	17447.0	57.0			
FH (60°-80°)	7893.3	25.8			G4/12000
FVH (80°-90°)	68.4	0.2			G1/100
BL (0°-30°)	512.9	1.7	B2/1000		
BM (30°-60°)	711.8	2.3	B1/1000		
BH (60°-80°)	293.9	1.0	B1/500		G1/500
BVH (80°-90°)	2.2	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°	2598.0	2598.0	2598.0	2598.0	2598.0	2598.0	2598.0	2598.0	2598.0	2598.0	2598.0
2.5°	3878.2	3790.9	3811.1	3754.7	3652.7	3443.4	3264.9	3095.8	2898.6	2891.9	2729.5
5°	5229.5	5155.7	5146.3	5032.2	4847.0	4491.4	4145.2	3750.7	3310.5	3278.3	2933.5
7.5°	6456.0	6397.0	6375.5	6240.0	5895.1	5548.9	5098.0	4518.3	3829.9	3770.8	3208.5
10°	7398.0	7369.9	7375.2	7278.6	6983.4	6661.3	6069.5	5330.1	4419.0	4327.7	3538.7
12.5°	8112.0	8118.7	8167.0	8107.9	7942.9	7704.0	7072.0	6195.7	5071.1	4946.3	3915.7
15°	8636.6	8670.2	8758.8	8832.6	8820.5	8613.8	8034.1	7074.6	5763.6	5625.4	4335.8
17.5°	8976.2	9013.7	9142.6	9306.3	9456.6	9408.3	8962.7	7922.7	6464.1	6304.4	4785.3
20°	9274.1	9318.3	9456.6	9672.6	9953.1	10013.5	9720.9	8745.3	7163.2	6968.6	5249.6
22.5°	9919.5	9918.2	10002.7	10128.9	10395.9	10551.6	10366.4	9508.9	7854.3	7651.7	5723.3
25°	11087.0	11042.7	11013.2	10913.9	10972.9	11069.6	10966.2	10222.8	8549.4	8344.1	6203.7
27.5°	12474.6	12501.4	12262.5	11995.5	11788.8	11689.5	11520.4	10884.4	9217.7	8992.3	6673.4
30°	13938.6	13946.7	13664.8	13324.0	12869.1	12492.0	12199.5	11516.4	9904.8	9659.2	7129.7
32.5°	15259.1	15206.7	14927.6	14463.3	13889.0	13464.9	12857.0	12222.3	10632.1	10394.6	7636.9
35°	16305.8	16244.0	15904.5	15481.8	14886.0	14459.3	13727.9	12926.8	11397.0	11164.8	8145.5
37.5°	17070.7	16998.2	16649.3	16214.5	15700.6	15452.3	14738.4	13693.0	12231.7	11982.1	8680.9
40°	17336.4	17273.3	17054.6	16736.5	16323.2	16266.8	15810.6	14574.7	13140.2	12874.5	9287.5
42.5°	17178.0	17116.3	17038.5	16931.1	16759.3	16813.0	16822.4	15579.8	14149.3	13887.6	9957.1
45°	16550.0	16495.0	16575.5	16732.5	16945.9	17211.6	17745.7	16660.0	15276.5	14997.4	10731.4
47.5°	15625.4	15585.1	15807.9	16199.7	16823.7	17556.4	18589.7	17795.3	16541.9	16282.9	11697.6
50°	14310.3	14303.6	14749.1	15464.4	16423.9	17722.8	19462.0	19086.2	18299.9	18027.5	13040.9
52.5°	12262.5	12276.0	13152.2	14296.9	15722.0	17610.1	20022.9	20744.9	20345.0	20061.8	14204.3
55°	10312.7	10393.2	11014.5	12665.1	14645.8	17191.4	20216.1	21519.2	21473.5	21205.1	14851.1
57.5°	8403.2	8549.4	9147.9	10689.8	13074.4	16226.6	20110.1	21854.6	22313.6	22108.3	15704.6
60°	6333.9	6401.0	7090.7	8532.0	11057.5	14466.0	19341.2	22037.1	23462.3	23320.0	16943.2
62.5°	4029.8	4197.5	4809.5	6199.7	8609.8	12021.0	18044.9	22034.5	24899.5	24977.3	18541.4
65°	2122.9	2318.9	2643.6	3841.9	5916.6	9290.2	16095.1	21827.8	26662.8	26771.5	19790.7
67.5°	1144.7	1201.0	1372.8	1994.1	3431.3	6293.6	13230.1	20807.9	27684.0	27827.6	19965.2
70°	837.4	868.2	932.6	1103.1	1727.1	3655.4	9653.8	18495.8	26367.5	26313.9	17738.9
72.5°	642.8	691.1	739.4	807.8	993.0	1951.2	6010.5	14483.4	21038.7	20684.5	13259.6
75°	507.2	515.3	583.7	645.5	744.8	1111.1	2669.1	8435.4	12840.9	12002.2	6876.0
77.5°	405.3	410.6	450.9	504.6	598.5	730.0	826.6	3318.6	4099.6	3658.1	1492.2
80°	240.2	253.6	335.5	389.2	496.5	460.3	301.9	720.6	640.1	579.7	250.9
82.5°	134.2	144.9	189.2	307.3	346.2	220.1	150.3	194.6	150.3	146.3	71.1
85°	0.0	6.7	122.1	190.6	140.9	48.3	63.1	64.4	44.3	41.6	28.2
87.5°	0.0	0.0	37.6	36.2	5.4	8.1	14.8	21.5	17.4	17.4	14.8
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°	2598.0	2598.0	2598.0	2598.0	2598.0	2598.0	2598.0	2598.0	2598.0	2598.0	2598.0
2.5°	2649.0	2576.5	2439.6	2305.4	2192.7	2100.1	2016.9	1983.4	1956.5	1952.5	1931.0
5°	2767.1	2620.8	2359.1	2144.4	2000.8	1898.8	1811.6	1757.9	1716.3	1700.2	1685.5
7.5°	2945.5	2724.1	2348.4	2101.5	1929.7	1757.9	1596.9	1422.4	1313.7	1272.1	1248.0
10°	3162.9	2861.0	2388.6	2089.4	1788.8	1426.5	1159.4	938.0	848.1	818.6	810.5
12.5°	3416.5	3031.4	2458.4	2014.2	1488.2	1013.2	799.8	724.6	704.5	695.1	695.1
15°	3707.7	3217.9	2508.1	1796.8	1100.4	766.2	692.4	657.5	636.1	624.0	625.3
17.5°	4005.7	3400.4	2483.9	1481.5	811.9	681.7	626.7	589.1	559.6	547.5	544.8
20°	4306.2	3569.5	2349.7	1103.1	687.1	618.6	556.9	515.3	485.8	473.7	471.0
22.5°	4617.6	3713.1	2113.5	809.2	617.3	548.8	488.5	446.9	418.7	407.9	402.6
25°	4920.8	3829.9	1783.4	654.9	551.5	483.1	425.4	386.5	361.0	350.2	348.9
27.5°	5204.0	3903.7	1401.0	578.4	493.8	424.0	371.7	336.8	315.4	307.3	306.0
30°	5459.0	3910.4	1036.0	522.0	442.8	373.1	324.7	293.9	275.1	267.0	264.4
32.5°	5716.6	3854.0	754.2	471.0	395.9	328.8	281.8	257.7	244.2	237.5	237.5
35°	5959.5	3723.8	587.8	426.7	350.2	285.8	248.3	230.8	222.8	216.1	216.1
37.5°	6197.0	3537.3	499.2	387.8	307.3	249.6	218.7	208.0	201.3	194.6	194.6
40°	6438.6	3302.5	453.6	351.6	272.4	221.4	194.6	185.2	178.5	173.1	171.8
42.5°	6735.1	3031.4	424.0	318.0	241.5	195.9	171.8	161.0	155.7	150.3	147.6
45°	7078.7	2797.9	399.9	284.5	216.1	174.5	149.0	138.2	130.2	123.5	122.1
47.5°	7573.8	2628.8	367.7	248.3	191.9	151.6	128.8	116.7	104.7	98.0	96.6
50°	8205.9	2489.3	326.1	216.1	167.7	128.8	107.4	92.6	81.9	75.1	75.1
52.5°	8519.9	2306.8	288.5	187.9	140.9	108.7	87.2	69.8	64.4	57.7	57.7
55°	8646.0	2167.2	250.9	159.7	116.7	89.9	68.4	53.7	49.7	45.6	44.3
57.5°	9000.3	2127.0	218.7	135.5	96.6	71.1	52.3	40.3	37.6	32.2	32.2
60°	9570.6	2147.1	189.2	115.4	77.8	55.0	38.9	30.9	28.2	22.8	22.8
62.5°	10186.6	2121.6	159.7	99.3	60.4	40.3	26.8	22.8	22.8	13.4	12.1
65°	10304.7	1889.4	136.9	81.9	47.0	29.5	17.4	14.8	20.1	2.7	0.0
67.5°	9563.9	1465.4	118.1	63.1	34.9	22.8	13.4	6.7	17.4	0.0	0.0
70°	7647.6	931.3	95.3	45.6	26.8	18.8	10.7	2.7	13.4	0.0	0.0
72.5°	5408.0	540.8	75.1	32.2	22.8	14.8	8.1	0.0	8.1	0.0	0.0
75°	2734.8	288.5	47.0	24.2	17.4	10.7	5.4	0.0	1.3	0.0	0.0
77.5°	591.8	134.2	29.5	17.4	12.1	6.7	2.7	0.0	0.0	0.0	0.0
80°	128.8	59.0	18.8	10.7	6.7	4.0	0.0	0.0	0.0	0.0	0.0
82.5°	47.0	30.9	9.4	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.5	16.1	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.4	5.4	1.3	1.3	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)