

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: P321189

Luminaire Tested: **GAN-SA5A-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321189
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-SA5A-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 15724 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

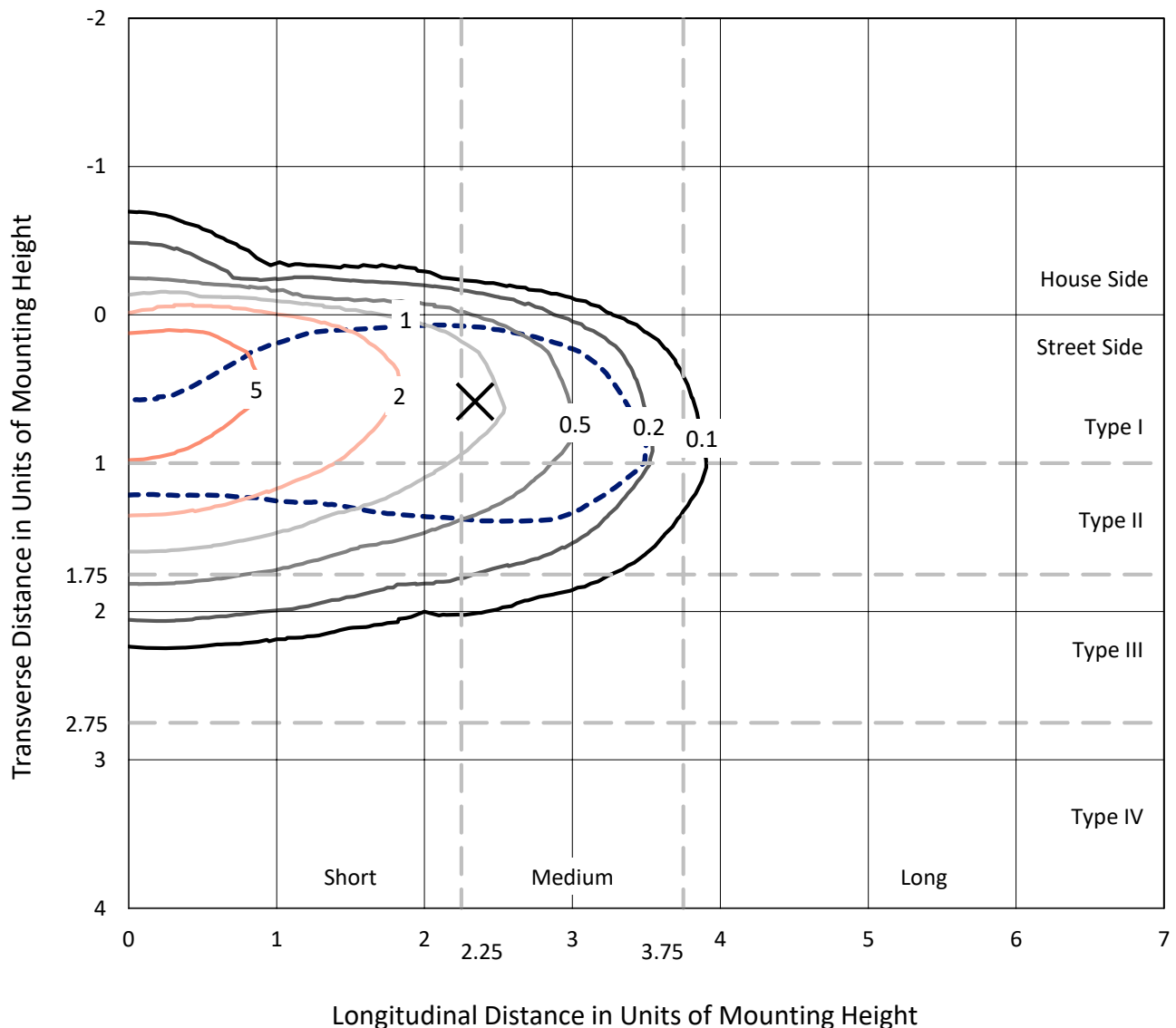
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

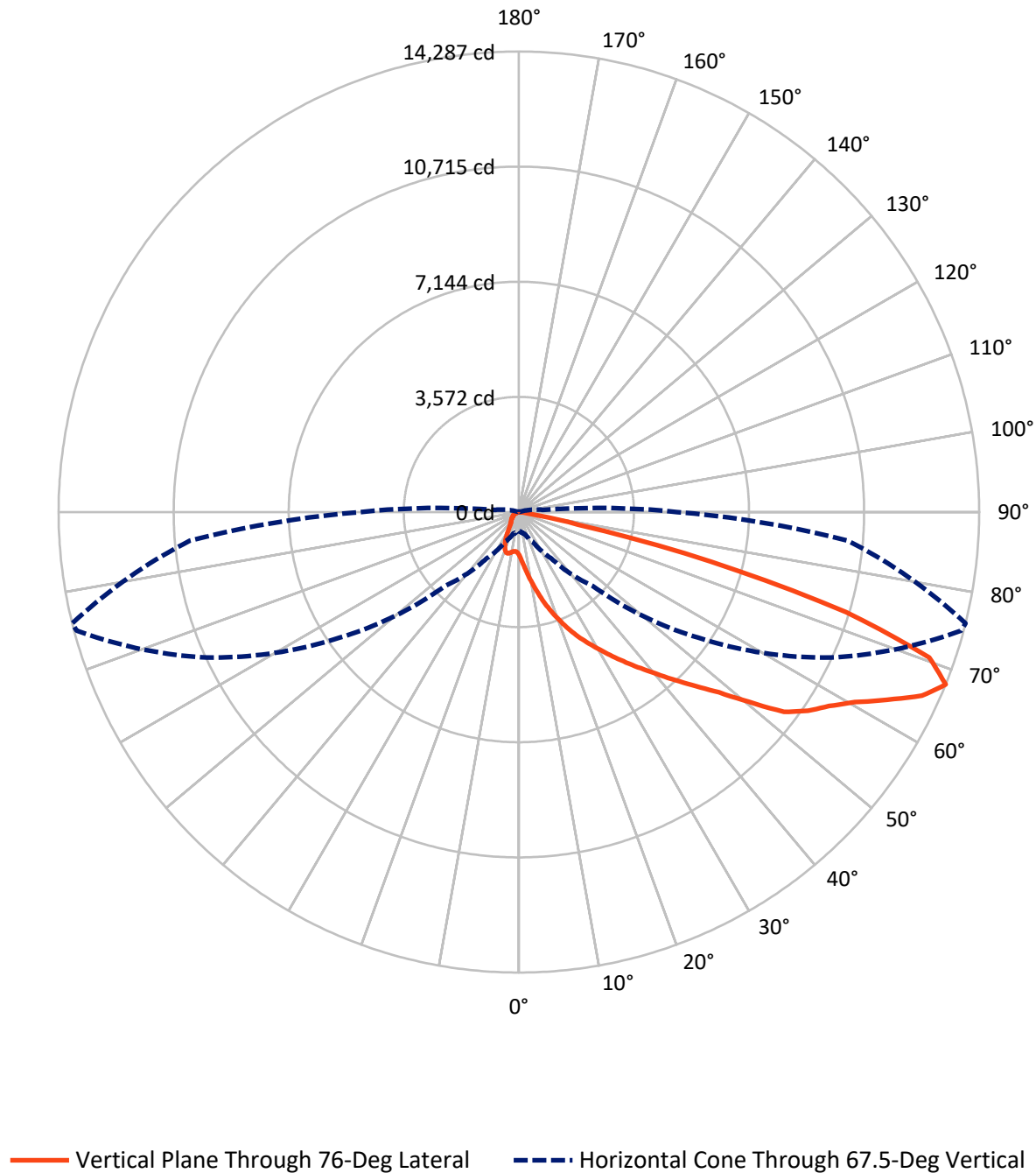
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	780.8	0.0	780.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	14943.2	0.0	14943.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	15724.0	0.0	15724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	1.1
10°-20°	657.5	4.2
20°-30°	1337.8	8.5
30°-40°	2322.0	14.8
40°-50°	3280.7	20.9
50°-60°	3720.4	23.7
60°-70°	3085.8	19.6
70°-80°	1117.7	7.1
80°-90°	36.2	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°	15724.0	100.0
0°-180°	15724.0	100.0

Coefficient of Utilization



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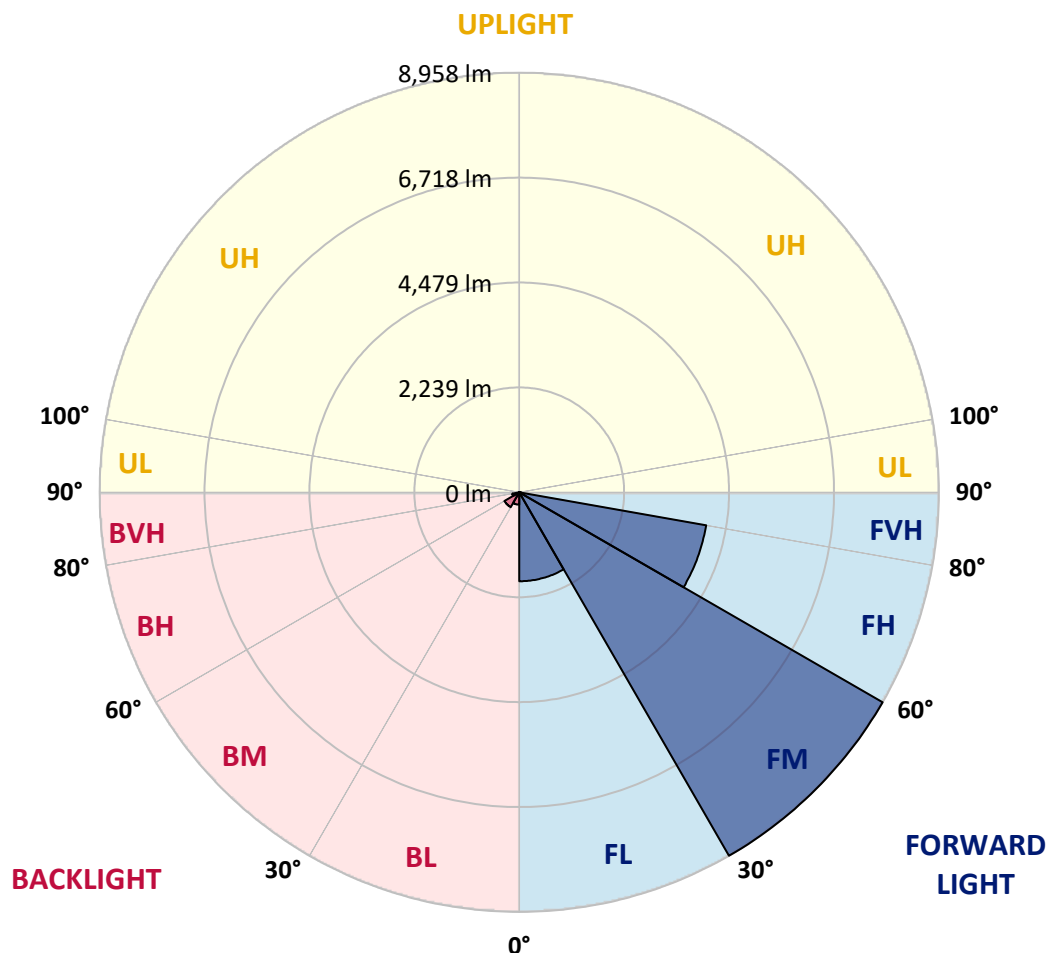
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1897.8	12.1			
FM	(30°-60°)	8957.6	57.0			
FH	(60°-80°)	4052.6	25.8			G2/5000
FVH	(80°-90°)	35.1	0.2			G1/100
BL	(0°-30°)	263.3	1.7	B1/500		
BM	(30°-60°)	365.4	2.3	B1/1000		
BH	(60°-80°)	150.9	1.0	B1/500		G1/500
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9
2.5°	1991.1	1946.3	1956.7	1927.7	1875.4	1767.9	1676.3	1589.5	1488.2	1484.7	1401.4
5°	2684.9	2647.0	2642.2	2583.6	2488.6	2306.0	2128.2	1925.7	1699.7	1683.2	1506.1
7.5°	3314.6	3284.3	3273.3	3203.7	3026.7	2848.9	2617.4	2319.8	1966.3	1936.0	1647.3
10°	3798.3	3783.8	3786.6	3737.0	3585.4	3420.1	3116.2	2736.6	2268.8	2221.9	1816.8
12.5°	4164.8	4168.3	4193.1	4162.8	4078.0	3955.4	3630.9	3181.0	2603.6	2539.6	2010.4
15°	4434.2	4451.5	4496.9	4534.8	4528.6	4422.5	4124.9	3632.3	2959.1	2888.2	2226.1
17.5°	4608.5	4627.8	4694.0	4778.0	4855.2	4830.4	4601.6	4067.7	3318.8	3236.8	2456.9
20°	4761.5	4784.2	4855.2	4966.1	5110.1	5141.1	4990.9	4490.0	3677.7	3577.8	2695.3
22.5°	5092.9	5092.2	5135.6	5200.4	5337.5	5417.4	5322.3	4882.1	4032.6	3928.5	2938.5
25°	5692.3	5669.6	5654.4	5603.4	5633.7	5683.3	5630.3	5248.6	4389.4	4284.0	3185.1
27.5°	6404.7	6418.5	6295.8	6158.7	6052.6	6001.6	5914.8	5588.3	4732.6	4616.8	3426.3
30°	7156.4	7160.5	7015.8	6840.8	6607.2	6413.6	6263.4	5912.8	5085.3	4959.2	3660.5
32.5°	7834.3	7807.4	7664.1	7425.7	7130.9	6913.1	6601.0	6275.2	5458.7	5336.8	3920.9
35°	8371.7	8340.0	8165.7	7948.7	7642.8	7423.7	7048.2	6636.9	5851.4	5732.3	4182.1
37.5°	8764.4	8727.2	8548.1	8324.9	8061.0	7933.5	7567.0	7030.3	6280.0	6151.8	4457.0
40°	8900.8	8868.5	8756.2	8592.9	8380.7	8351.7	8117.5	7482.9	6746.4	6610.0	4768.4
42.5°	8819.5	8787.8	8747.9	8692.8	8604.6	8632.1	8637.0	7999.0	7264.5	7130.2	5112.2
45°	8497.1	8468.8	8510.2	8590.8	8700.3	8836.8	9111.0	8553.6	7843.3	7700.0	5509.7
47.5°	8022.4	8001.7	8116.1	8317.3	8637.6	9013.8	9544.3	9136.5	8493.0	8360.0	6005.8
50°	7347.2	7343.8	7572.5	7939.7	8432.3	9099.3	9992.2	9799.3	9395.5	9255.7	6695.4
52.5°	6295.8	6302.7	6752.6	7340.3	8072.0	9041.4	10280.2	10650.8	10445.5	10300.1	7292.8
55°	5294.8	5336.1	5655.1	6502.5	7519.4	8826.4	10379.4	11048.4	11024.9	10887.1	7624.9
57.5°	4314.3	4389.4	4696.7	5488.4	6712.7	8331.1	10324.9	11220.6	11456.2	11350.8	8063.0
60°	3251.9	3286.4	3640.5	4380.5	5677.1	7427.1	9930.2	11314.3	12046.0	11973.0	8699.0
62.5°	2069.0	2155.1	2469.3	3183.1	4420.4	6171.8	9264.6	11312.9	12783.9	12823.8	9519.5
65°	1090.0	1190.5	1357.3	1972.5	3037.7	4769.8	8263.5	11206.8	13689.2	13745.0	10161.0
67.5°	587.7	616.6	704.8	1023.8	1761.7	3231.3	6792.6	10683.2	14213.5	14287.2	10250.5
70°	429.9	445.8	478.8	566.3	886.7	1876.8	4956.5	9496.1	13537.6	13510.1	9107.5
72.5°	330.0	354.8	379.6	414.8	509.8	1001.8	3085.9	7436.1	10801.7	10619.8	6807.7
75°	260.4	264.6	299.7	331.4	382.4	570.5	1370.4	4330.9	6592.8	6162.2	3530.3
77.5°	208.1	210.8	231.5	259.1	307.3	374.8	424.4	1703.8	2104.8	1878.1	766.1
80°	123.3	130.2	172.2	199.8	254.9	236.3	155.0	370.0	328.6	297.6	128.8
82.5°	68.9	74.4	97.1	157.8	177.8	113.0	77.2	99.9	77.2	75.1	36.5
85°	0.0	3.4	62.7	97.8	72.3	24.8	32.4	33.1	22.7	21.4	14.5
87.5°	0.0	0.0	19.3	18.6	2.8	4.1	7.6	11.0	9.0	9.0	7.6
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°	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9	1333.9
2.5°	1360.0	1322.8	1252.6	1183.7	1125.8	1078.2	1035.5	1018.3	1004.5	1002.5	991.4
5°	1420.7	1345.6	1211.2	1101.0	1027.3	974.9	930.1	902.6	881.2	872.9	865.3
7.5°	1512.3	1398.6	1205.7	1078.9	990.7	902.6	819.9	730.3	674.5	653.1	640.7
10°	1623.9	1468.9	1226.4	1072.7	918.4	732.4	595.3	481.6	435.4	420.3	416.1
12.5°	1754.1	1556.4	1262.2	1034.1	764.1	520.2	410.6	372.0	361.7	356.9	356.9
15°	1903.6	1652.2	1287.7	922.5	565.0	393.4	355.5	337.6	326.6	320.4	321.1
17.5°	2056.6	1745.9	1275.3	760.6	416.8	350.0	321.8	302.5	287.3	281.1	279.7
20°	2210.9	1832.7	1206.4	566.3	352.8	317.6	285.9	264.6	249.4	243.2	241.8
22.5°	2370.8	1906.4	1085.1	415.5	316.9	281.8	250.8	229.4	215.0	209.4	206.7
25°	2526.5	1966.3	915.6	336.2	283.2	248.0	218.4	198.4	185.3	179.8	179.1
27.5°	2671.8	2004.2	719.3	296.9	253.5	217.7	190.8	172.9	161.9	157.8	157.1
30°	2802.7	2007.7	531.9	268.0	227.4	191.5	166.7	150.9	141.2	137.1	135.7
32.5°	2935.0	1978.7	387.2	241.8	203.2	168.8	144.7	132.3	125.4	121.9	121.9
35°	3059.7	1911.9	301.8	219.1	179.8	146.8	127.5	118.5	114.4	110.9	110.9
37.5°	3181.7	1816.1	256.3	199.1	157.8	128.1	112.3	106.8	103.3	99.9	99.9
40°	3305.7	1695.6	232.9	180.5	139.9	113.7	99.9	95.1	91.6	88.9	88.2
42.5°	3458.0	1556.4	217.7	163.3	124.0	100.6	88.2	82.7	79.9	77.2	75.8
45°	3634.3	1436.5	205.3	146.1	110.9	89.6	76.5	71.0	66.8	63.4	62.7
47.5°	3888.6	1349.7	188.8	127.5	98.5	77.9	66.1	59.9	53.7	50.3	49.6
50°	4213.1	1278.0	167.4	110.9	86.1	66.1	55.1	47.5	42.0	38.6	38.6
52.5°	4374.3	1184.3	148.1	96.5	72.3	55.8	44.8	35.8	33.1	29.6	29.6
55°	4439.0	1112.7	128.8	82.0	59.9	46.2	35.1	27.6	25.5	23.4	22.7
57.5°	4620.9	1092.0	112.3	69.6	49.6	36.5	26.9	20.7	19.3	16.5	16.5
60°	4913.8	1102.4	97.1	59.3	40.0	28.2	20.0	15.8	14.5	11.7	11.7
62.5°	5230.0	1089.3	82.0	51.0	31.0	20.7	13.8	11.7	11.7	6.9	6.2
65°	5290.6	970.1	70.3	42.0	24.1	15.2	9.0	7.6	10.3	1.4	0.0
67.5°	4910.3	752.4	60.6	32.4	17.9	11.7	6.9	3.4	9.0	0.0	0.0
70°	3926.5	478.1	48.9	23.4	13.8	9.6	5.5	1.4	6.9	0.0	0.0
72.5°	2776.6	277.7	38.6	16.5	11.7	7.6	4.1	0.0	4.1	0.0	0.0
75°	1404.1	148.1	24.1	12.4	9.0	5.5	2.8	0.0	0.7	0.0	0.0
77.5°	303.8	68.9	15.2	9.0	6.2	3.4	1.4	0.0	0.0	0.0	0.0
80°	66.1	30.3	9.6	5.5	3.4	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	24.1	15.8	4.8	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.1	8.3	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	2.8	0.7	0.7	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)