

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: P321191

Luminaire Tested: **GAN-SA7A-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321191
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-SA7A-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 22250 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

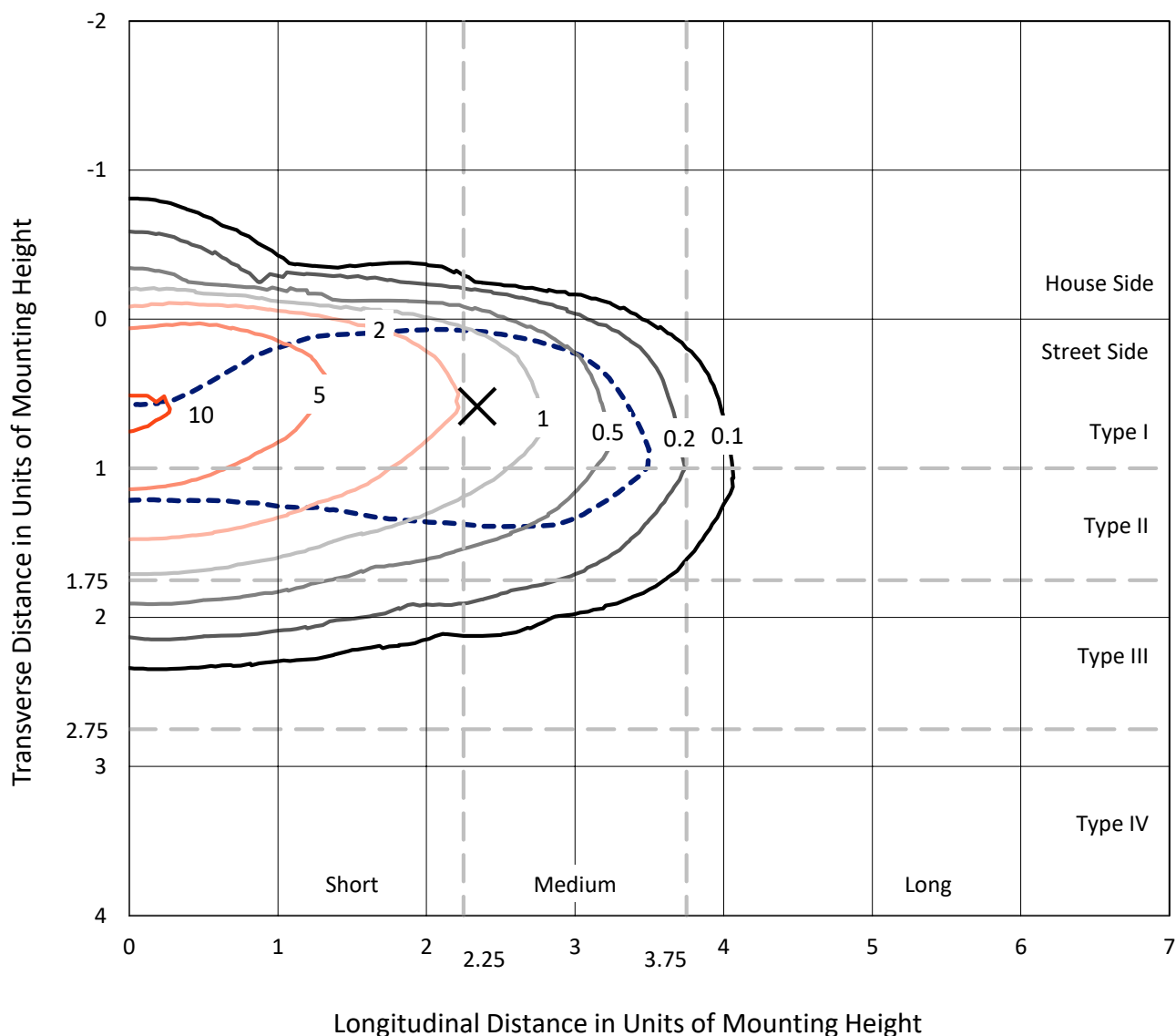
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

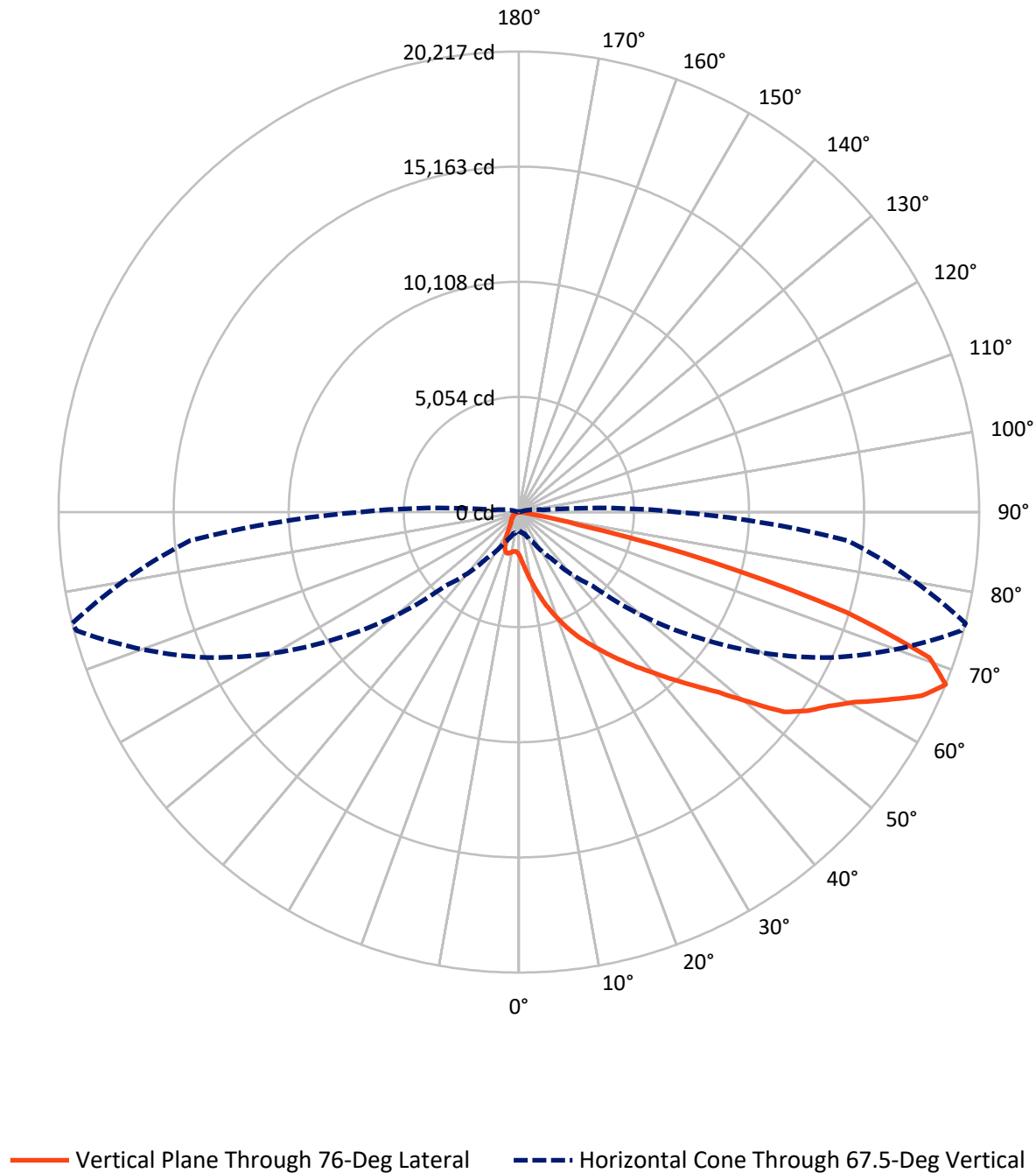
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	1104.9	0.0	1104.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	21145.1	0.0	21145.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	22250.0	0.0	22250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.7	1.1
10°-20°	930.4	4.2
20°-30°	1893.0	8.5
30°-40°	3285.7	14.8
40°-50°	4642.3	20.9
50°-60°	5264.5	23.7
60°-70°	4366.4	19.6
70°-80°	1581.6	7.1
80°-90°	51.3	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°	22250.0	100.0
0°-180°	22250.0	100.0

Coefficient of Utilization



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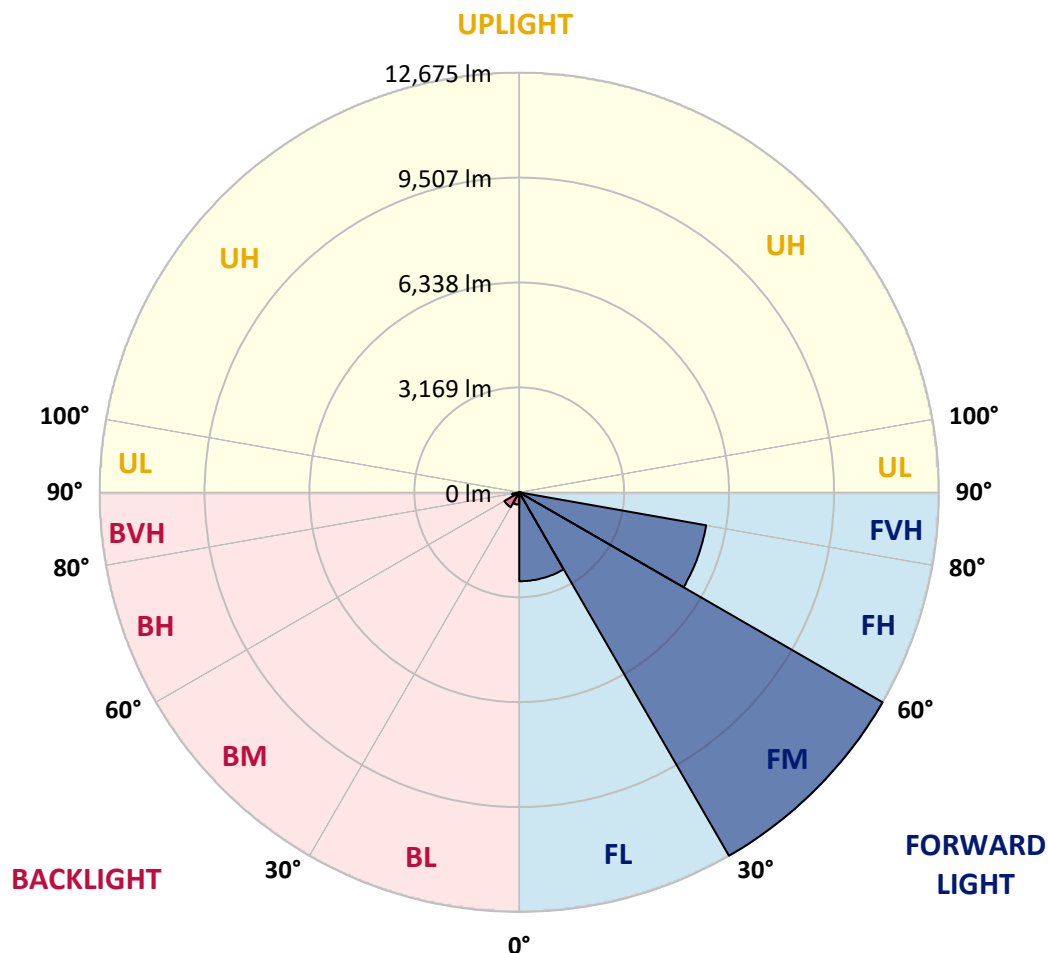
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2685.5	12.1			
FM	(30°-60°)	12675.4	57.0			
FH	(60°-80°)	5734.6	25.8			G3/7500
FVH	(80°-90°)	49.7	0.2			G1/100
BL	(0°-30°)	372.6	1.7	B1/500		
BM	(30°-60°)	517.1	2.3	B1/1000		
BH	(60°-80°)	213.5	1.0	B1/500		G1/500
BVH	(80°-90°)	1.6	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1887.4	1887.4	1887.4	1887.4	1887.4	1887.4	1887.4	1887.4	1887.4	1887.4	1887.4
2.5°	2817.5	2754.1	2768.8	2727.8	2653.7	2501.6	2372.0	2249.1	2105.8	2101.0	1983.0
5°	3799.3	3745.6	3738.8	3655.9	3521.4	3263.1	3011.5	2724.9	2405.1	2381.7	2131.2
7.5°	4690.3	4647.4	4631.8	4533.4	4282.8	4031.3	3703.7	3282.6	2782.4	2739.5	2331.0
10°	5374.7	5354.3	5358.2	5288.0	5073.5	4839.5	4409.6	3872.4	3210.4	3144.1	2570.9
12.5°	5893.4	5898.3	5933.4	5890.5	5770.5	5597.0	5137.8	4501.2	3684.2	3593.6	2844.8
15°	6274.6	6299.0	6363.3	6416.9	6408.1	6258.0	5836.8	5139.8	4187.3	4086.9	3150.0
17.5°	6521.2	6548.5	6642.1	6761.1	6870.3	6835.2	6511.5	5755.9	4696.2	4580.2	3476.6
20°	6737.7	6769.8	6870.3	7027.2	7231.0	7274.9	7062.3	6353.6	5204.1	5062.8	3813.9
22.5°	7206.6	7205.6	7267.1	7358.7	7552.7	7665.8	7531.3	6908.3	5706.2	5559.0	4158.0
25°	8054.8	8022.6	8001.2	7929.0	7971.9	8042.1	7967.0	7426.9	6211.2	6062.1	4507.1
27.5°	9062.9	9082.4	8908.8	8714.8	8564.7	8492.5	8369.7	7907.6	6696.7	6532.9	4848.3
30°	10126.5	10132.3	9927.6	9680.0	9349.5	9075.5	8863.0	8366.8	7195.9	7017.5	5179.7
32.5°	11085.8	11047.8	10845.0	10507.7	10090.4	9782.3	9340.7	8879.6	7724.3	7551.7	5548.3
35°	11846.2	11801.4	11554.7	11247.6	10814.8	10504.8	9973.4	9391.4	8280.0	8111.3	5917.8
37.5°	12402.0	12349.3	12095.8	11780.0	11406.6	11226.2	10707.5	9948.1	8886.4	8705.1	6306.8
40°	12595.0	12549.2	12390.3	12159.2	11858.9	11818.0	11486.5	10588.6	9546.4	9353.4	6747.4
42.5°	12479.9	12435.1	12378.6	12300.6	12175.8	12214.8	12221.6	11318.8	10279.6	10089.4	7233.9
45°	12023.7	11983.7	12042.2	12156.3	12311.3	12504.3	12892.3	12103.6	11098.5	10895.7	7796.4
47.5°	11352.0	11322.7	11484.6	11769.2	12222.6	12754.9	13505.6	12928.4	12017.8	11829.7	8498.4
50°	10396.5	10391.7	10715.3	11235.0	11932.0	12875.8	14139.3	13866.3	13295.0	13097.1	9474.3
52.5°	8908.8	8918.6	9555.2	10386.8	11422.2	12793.9	14546.8	15071.3	14780.8	14575.0	10319.5
55°	7492.3	7550.8	8002.1	9201.3	10640.3	12489.7	14687.2	15633.8	15600.7	15405.7	10789.4
57.5°	6104.9	6211.2	6646.0	7766.2	9498.6	11788.7	14610.1	15877.5	16211.0	16061.8	11409.5
60°	4601.6	4650.4	5151.5	6198.5	8033.3	10509.6	14051.5	16010.1	17045.5	16942.2	12309.3
62.5°	2927.7	3049.5	3494.1	4504.1	6255.1	8733.3	13109.7	16008.2	18089.6	18146.2	13470.5
65°	1542.3	1684.7	1920.6	2791.2	4298.4	6749.4	11693.2	15858.0	19370.7	19449.6	14378.1
67.5°	831.6	872.6	997.3	1448.7	2492.9	4572.4	9611.7	15117.1	20112.6	20216.9	14504.9
70°	608.3	630.8	677.6	801.4	1254.7	2655.7	7013.6	13437.3	19156.2	19117.2	12887.5
72.5°	467.0	502.1	537.2	586.9	721.4	1417.5	4366.7	10522.3	15284.8	15027.4	9633.2
75°	368.5	374.4	424.1	468.9	541.1	807.2	1939.1	6128.3	9329.0	8719.7	4995.5
77.5°	294.4	298.3	327.6	366.6	434.8	530.4	600.6	2411.0	2978.4	2657.6	1084.1
80°	174.5	184.3	243.7	282.7	360.7	334.4	219.4	523.5	465.0	421.2	182.3
82.5°	97.5	105.3	137.5	223.3	251.5	159.9	109.2	141.4	109.2	106.3	51.7
85°	0.0	4.9	88.7	138.4	102.4	35.1	45.8	46.8	32.2	30.2	20.5
87.5°	0.0	0.0	27.3	26.3	3.9	5.8	10.7	15.6	12.7	12.7	10.7
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°	1887.4	1887.4	1887.4	1887.4	1887.4	1887.4	1887.4	1887.4	1887.4	1887.4	1887.4
2.5°	1924.5	1871.8	1772.4	1674.9	1593.0	1525.7	1465.3	1440.9	1421.4	1418.5	1402.9
5°	2010.3	1904.0	1713.9	1557.9	1453.6	1379.5	1316.1	1277.1	1246.9	1235.2	1224.5
7.5°	2139.9	1979.1	1706.1	1526.7	1401.9	1277.1	1160.2	1033.4	954.4	924.2	906.7
10°	2297.9	2078.5	1735.4	1517.9	1299.6	1036.3	842.3	681.5	616.1	594.7	588.9
12.5°	2482.1	2202.3	1786.1	1463.4	1081.2	736.1	581.1	526.5	511.8	505.0	505.0
15°	2693.7	2337.9	1822.1	1305.4	799.4	556.7	503.1	477.7	462.1	453.3	454.3
17.5°	2910.1	2470.4	1804.6	1076.3	589.8	495.3	455.3	428.0	406.5	397.8	395.8
20°	3128.5	2593.3	1707.1	801.4	499.2	449.4	404.6	374.4	352.9	344.1	342.2
22.5°	3354.7	2697.6	1535.5	587.9	448.5	398.7	354.9	324.6	304.2	296.4	292.5
25°	3575.0	2782.4	1295.7	475.8	400.7	351.0	309.0	280.8	262.3	254.5	253.5
27.5°	3780.7	2836.0	1017.8	420.2	358.8	308.1	270.1	244.7	229.1	223.3	222.3
30°	3966.0	2840.9	752.6	379.2	321.7	271.0	235.9	213.5	199.9	194.0	192.1
32.5°	4153.2	2800.0	547.9	342.2	287.6	238.9	204.7	187.2	177.4	172.6	172.6
35°	4329.6	2705.4	427.0	310.0	254.5	207.7	180.4	167.7	161.8	157.0	157.0
37.5°	4502.2	2569.9	362.7	281.8	223.3	181.3	158.9	151.1	146.2	141.4	141.4
40°	4677.7	2399.3	329.5	255.4	197.9	160.9	141.4	134.5	129.7	125.8	124.8
42.5°	4893.1	2202.3	308.1	231.1	175.5	142.3	124.8	117.0	113.1	109.2	107.2
45°	5142.7	2032.7	290.5	206.7	157.0	126.7	108.2	100.4	94.6	89.7	88.7
47.5°	5502.4	1909.9	267.1	180.4	139.4	110.2	93.6	84.8	76.0	71.2	70.2
50°	5961.6	1808.5	236.9	157.0	121.9	93.6	78.0	67.3	59.5	54.6	54.6
52.5°	6189.8	1675.9	209.6	136.5	102.4	79.0	63.4	50.7	46.8	41.9	41.9
55°	6281.4	1574.5	182.3	116.0	84.8	65.3	49.7	39.0	36.1	33.1	32.2
57.5°	6538.8	1545.2	158.9	98.5	70.2	51.7	38.0	29.2	27.3	23.4	23.4
60°	6953.1	1559.9	137.5	83.8	56.5	40.0	28.3	22.4	20.5	16.6	16.6
62.5°	7400.6	1541.3	116.0	72.1	43.9	29.2	19.5	16.6	16.6	9.7	8.8
65°	7486.4	1372.7	99.4	59.5	34.1	21.4	12.7	10.7	14.6	1.9	0.0
67.5°	6948.3	1064.6	85.8	45.8	25.3	16.6	9.7	4.9	12.7	0.0	0.0
70°	5556.1	676.6	69.2	33.1	19.5	13.6	7.8	1.9	9.7	0.0	0.0
72.5°	3928.9	392.9	54.6	23.4	16.6	10.7	5.8	0.0	5.8	0.0	0.0
75°	1986.9	209.6	34.1	17.5	12.7	7.8	3.9	0.0	1.0	0.0	0.0
77.5°	429.9	97.5	21.4	12.7	8.8	4.9	1.9	0.0	0.0	0.0	0.0
80°	93.6	42.9	13.6	7.8	4.9	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	34.1	22.4	6.8	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.5	11.7	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	3.9	1.0	1.0	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)