

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: P321368

Luminaire Tested: **GAN-SA4C-760-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321368
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-SA4C-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA 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: 23030 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

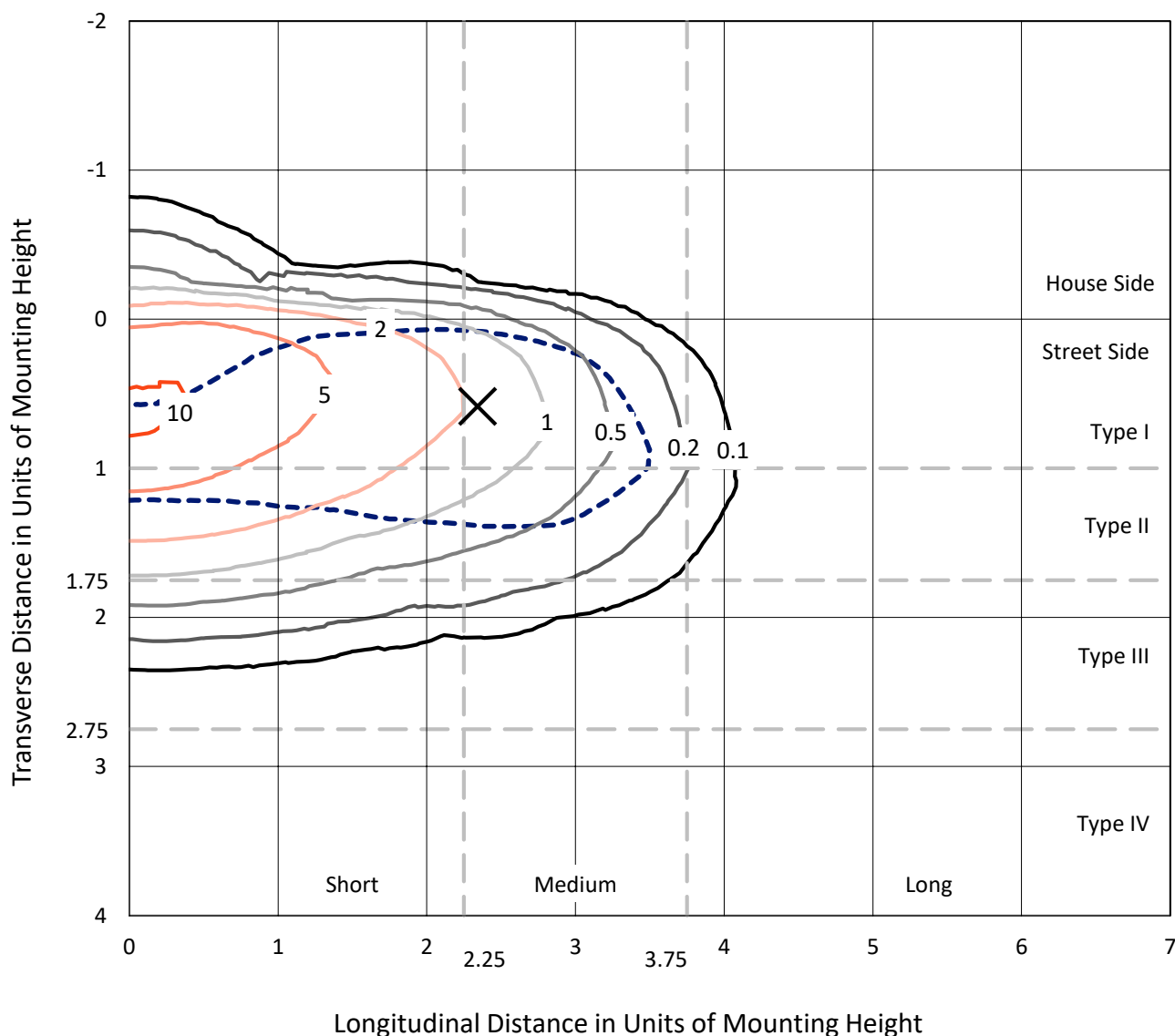
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

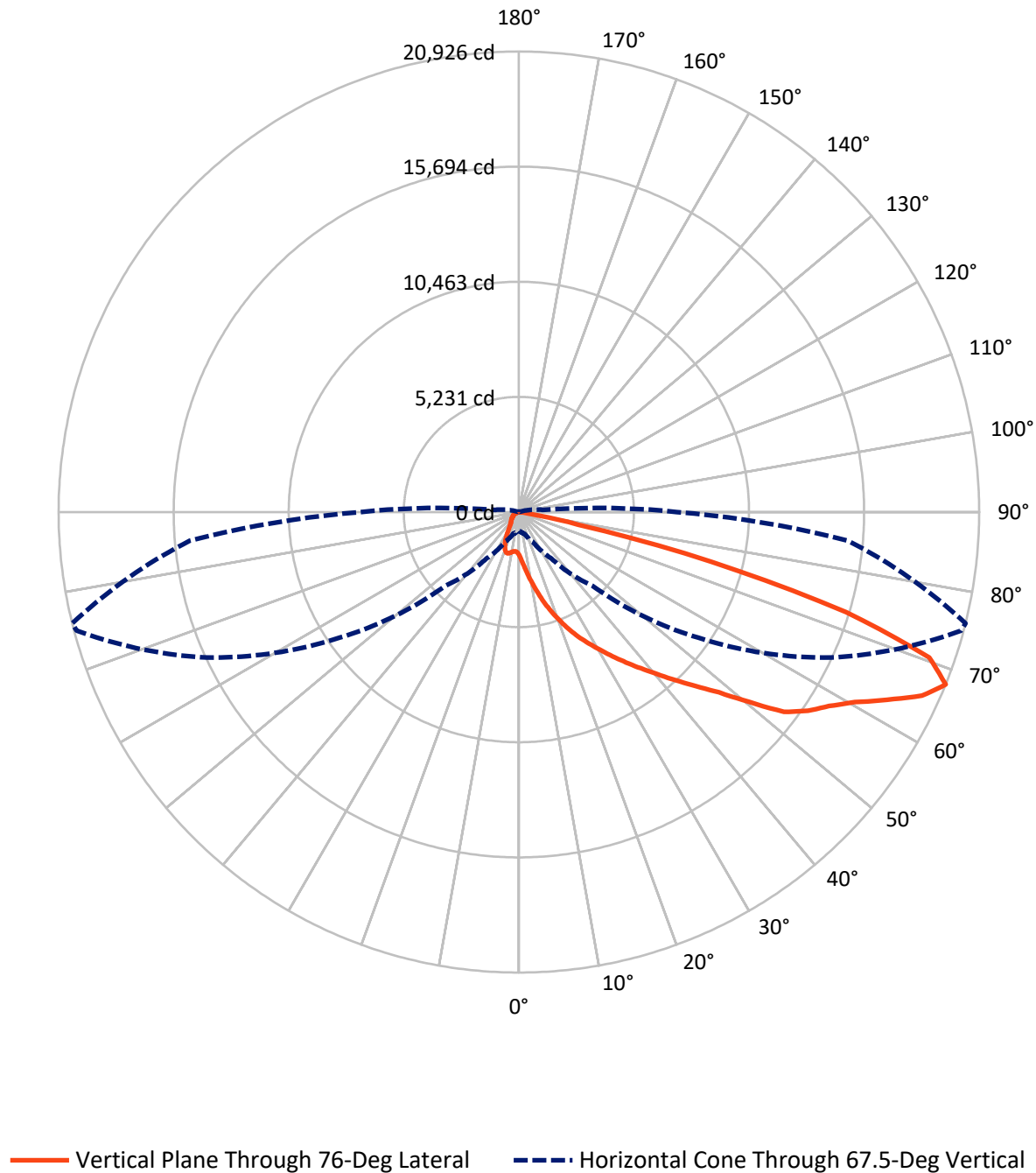
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	1143.6	0.0	1143.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	21886.4	0.0	21886.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	23030.0	0.0	23030.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.9	1.1
10°-20°	963.0	4.2
20°-30°	1959.4	8.5
30°-40°	3400.9	14.8
40°-50°	4805.0	20.9
50°-60°	5449.1	23.7
60°-70°	4519.5	19.6
70°-80°	1637.1	7.1
80°-90°	53.1	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°	23030.0	100.0
0°-180°	23030.0	100.0

Coefficient of Utilization



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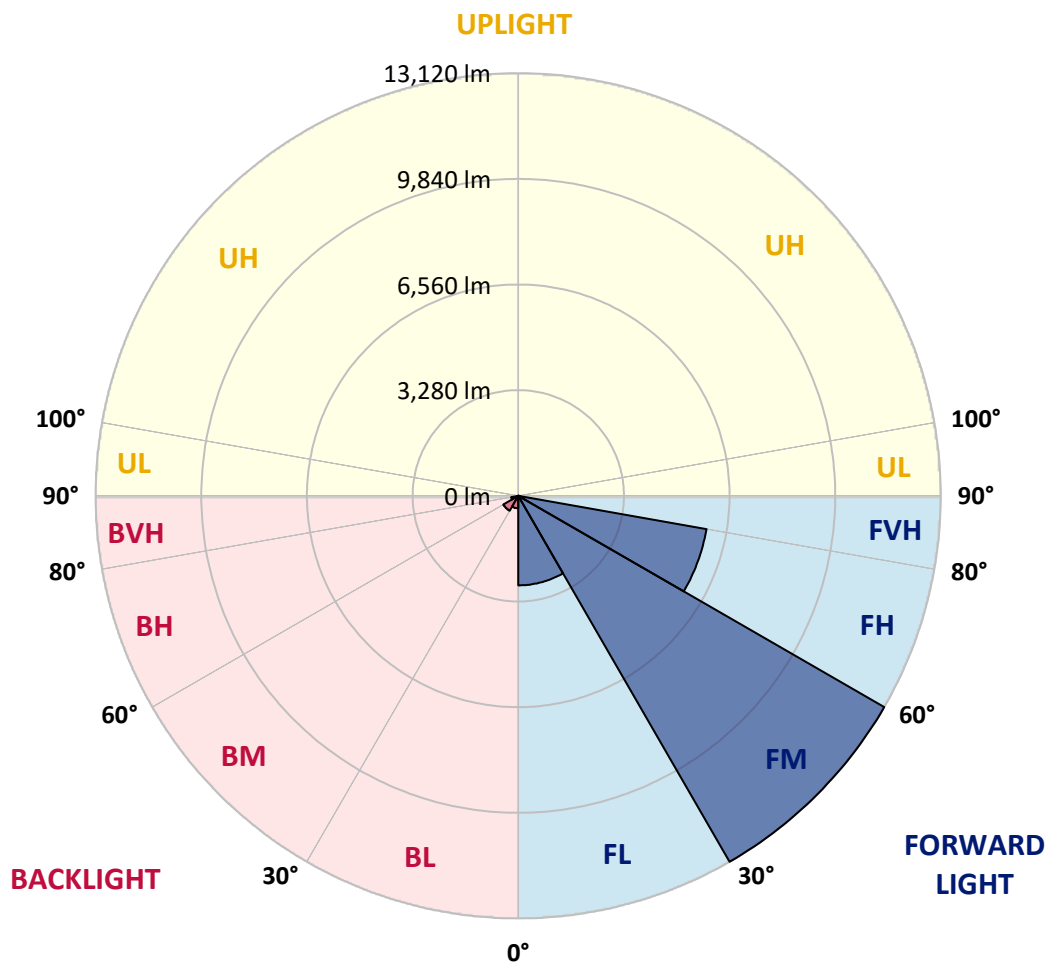
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2779.6	12.1			
FM	(30°-60°)	13119.7	57.0			
FH	(60°-80°)	5935.6	25.8			G3/7500
FVH	(80°-90°)	51.4	0.2			G1/100
BL	(0°-30°)	385.7	1.7	B1/500		
BM	(30°-60°)	535.3	2.3	B1/1000		
BH	(60°-80°)	221.0	1.0	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6
2.5°	2916.3	2850.7	2865.8	2823.5	2746.8	2589.3	2455.1	2328.0	2179.6	2174.6	2052.5
5°	3932.4	3876.9	3869.9	3784.1	3644.9	3377.4	3117.1	2820.4	2489.4	2465.2	2205.9
7.5°	4854.8	4810.4	4794.2	4692.3	4433.0	4172.6	3833.6	3397.6	2880.0	2835.6	2412.7
10°	5563.1	5542.0	5546.0	5473.3	5251.3	5009.2	4564.1	4008.1	3323.0	3254.3	2661.0
12.5°	6100.0	6105.0	6141.4	6097.0	5972.8	5793.2	5317.9	4659.0	3813.4	3719.5	2944.5
15°	6494.5	6519.8	6586.4	6641.9	6632.8	6477.4	6041.5	5320.0	4334.1	4230.1	3260.4
17.5°	6749.8	6778.1	6875.0	6998.1	7111.1	7074.8	6739.8	5957.7	4860.8	4740.7	3598.4
20°	6973.9	7007.2	7111.1	7273.6	7484.5	7529.9	7309.9	6576.3	5386.6	5240.2	3947.6
22.5°	7459.2	7458.2	7521.8	7616.7	7817.5	7934.5	7795.3	7150.5	5906.2	5753.9	4303.8
25°	8337.2	8303.9	8281.7	8207.0	8251.4	8324.0	8246.3	7687.3	6429.0	6274.6	4665.1
27.5°	9380.6	9400.7	9221.1	9020.3	8864.9	8790.2	8663.1	8184.8	6931.5	6762.0	5018.2
30°	10481.5	10487.5	10275.6	10019.3	9677.2	9393.7	9173.7	8660.1	7448.1	7263.5	5361.3
32.5°	11474.4	11435.1	11225.2	10876.0	10444.1	10125.3	9668.2	9190.9	7995.1	7816.5	5742.8
35°	12261.5	12215.1	11959.8	11641.9	11193.9	10873.0	10323.1	9720.6	8570.3	8395.7	6125.2
37.5°	12836.7	12782.2	12519.9	12192.9	11806.4	11619.7	11082.9	10296.8	9197.9	9010.2	6527.8
40°	13036.5	12989.1	12824.6	12585.5	12274.7	12232.3	11889.2	10959.8	9881.1	9681.3	6984.0
42.5°	12917.4	12871.0	12812.5	12731.8	12602.6	12643.0	12650.0	11715.6	10639.9	10443.1	7487.5
45°	12445.2	12403.8	12464.4	12582.4	12742.9	12942.7	13344.3	12527.9	11487.6	11277.7	8069.7
47.5°	11749.9	11719.6	11887.2	12181.8	12651.0	13202.0	13979.0	13381.6	12439.1	12244.4	8796.3
50°	10761.0	10756.0	11091.0	11628.8	12350.3	13327.1	14634.9	14352.4	13761.1	13556.2	9806.4
52.5°	9221.1	9231.2	9890.2	10750.9	11822.6	13242.4	15056.7	15599.6	15298.9	15086.0	10681.3
55°	7754.9	7815.5	8282.7	9523.9	11013.3	12927.5	15202.0	16181.9	16147.6	15945.7	11167.7
57.5°	6319.0	6429.0	6879.0	8038.5	9831.6	12202.0	15122.3	16434.1	16779.3	16624.9	11809.5
60°	4762.9	4813.4	5332.1	6415.8	8315.0	10878.1	14544.1	16571.4	17643.0	17536.1	12740.9
62.5°	3030.3	3156.5	3616.6	4662.0	6474.4	9039.5	13569.3	16569.4	18723.8	18782.3	13942.7
65°	1596.4	1743.7	1987.9	2889.0	4449.1	6986.0	12103.1	16414.0	20049.7	20131.5	14882.2
67.5°	860.8	903.1	1032.3	1499.5	2580.3	4732.7	9948.7	15647.1	20817.7	20925.6	15013.3
70°	629.7	652.9	701.3	829.5	1298.7	2748.8	7259.4	13908.4	19827.7	19787.4	13339.2
72.5°	483.4	519.7	556.0	607.5	746.7	1467.2	4519.7	10891.2	15820.6	15554.2	9970.9
75°	381.4	387.5	439.0	485.4	560.0	835.5	2007.1	6343.2	9656.0	9025.4	5170.6
77.5°	304.7	308.8	339.1	379.4	450.1	548.9	621.6	2495.5	3082.8	2750.8	1122.1
80°	180.6	190.7	252.3	292.6	373.4	346.1	227.0	541.9	481.3	435.9	188.7
82.5°	100.9	109.0	142.3	231.1	260.3	165.5	113.0	146.3	113.0	110.0	53.5
85°	0.0	5.0	91.8	143.3	106.0	36.3	47.4	48.4	33.3	31.3	21.2
87.5°	0.0	0.0	28.3	27.2	4.0	6.1	11.1	16.1	13.1	13.1	11.1
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°	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6	1953.6
2.5°	1992.0	1937.5	1834.5	1733.6	1648.9	1579.2	1516.7	1491.4	1471.3	1468.2	1452.1
5°	2080.8	1970.8	1774.0	1612.5	1504.6	1427.9	1362.3	1321.9	1290.6	1278.5	1267.4
7.5°	2215.0	2048.5	1765.9	1580.2	1451.1	1321.9	1200.8	1069.6	987.9	956.6	938.5
10°	2378.4	2151.4	1796.2	1571.2	1345.1	1072.7	871.9	705.4	637.7	615.5	609.5
12.5°	2569.2	2279.5	1848.7	1514.7	1119.1	761.9	601.4	544.9	529.8	522.7	522.7
15°	2788.1	2419.8	1886.0	1351.2	827.5	576.2	520.7	494.5	478.3	469.2	470.2
17.5°	3012.2	2557.1	1867.8	1114.0	610.5	512.6	471.2	443.0	420.8	411.7	409.7
20°	3238.2	2684.2	1766.9	829.5	516.7	465.2	418.8	387.5	365.3	356.2	354.2
22.5°	3472.3	2792.2	1589.3	608.5	464.2	412.7	367.3	336.0	314.8	306.8	302.7
25°	3700.4	2880.0	1341.1	492.4	414.7	363.3	319.9	290.6	271.4	263.4	262.4
27.5°	3913.3	2935.5	1053.5	434.9	371.3	318.9	279.5	253.3	237.1	231.1	230.1
30°	4105.0	2940.5	779.0	392.5	333.0	280.5	244.2	221.0	206.9	200.8	198.8
32.5°	4298.8	2898.1	567.1	354.2	297.7	247.2	211.9	193.7	183.7	178.6	178.6
35°	4481.4	2800.2	442.0	320.9	263.4	214.9	186.7	173.6	167.5	162.5	162.5
37.5°	4660.0	2660.0	375.4	291.6	231.1	187.7	164.5	156.4	151.4	146.3	146.3
40°	4841.6	2483.4	341.1	264.4	204.8	166.5	146.3	139.3	134.2	130.2	129.2
42.5°	5064.7	2279.5	318.9	239.2	181.6	147.3	129.2	121.1	117.1	113.0	111.0
45°	5323.0	2104.0	300.7	213.9	162.5	131.2	112.0	103.9	97.9	92.8	91.8
47.5°	5695.3	1976.8	276.5	186.7	144.3	114.0	96.9	87.8	78.7	73.7	72.7
50°	6170.6	1871.9	245.2	162.5	126.1	96.9	80.7	69.6	61.6	56.5	56.5
52.5°	6406.8	1734.6	217.0	141.3	106.0	81.7	65.6	52.5	48.4	43.4	43.4
55°	6501.6	1629.7	188.7	120.1	87.8	67.6	51.5	40.4	37.3	34.3	33.3
57.5°	6768.0	1599.4	164.5	101.9	72.7	53.5	39.4	30.3	28.3	24.2	24.2
60°	7196.9	1614.6	142.3	86.8	58.5	41.4	29.3	23.2	21.2	17.2	17.2
62.5°	7660.1	1595.4	120.1	74.7	45.4	30.3	20.2	17.2	17.2	10.1	9.1
65°	7748.9	1420.8	102.9	61.6	35.3	22.2	13.1	11.1	15.1	2.0	0.0
67.5°	7191.8	1101.9	88.8	47.4	26.2	17.2	10.1	5.0	13.1	0.0	0.0
70°	5750.8	700.3	71.6	34.3	20.2	14.1	8.1	2.0	10.1	0.0	0.0
72.5°	4066.7	406.7	56.5	24.2	17.2	11.1	6.1	0.0	6.1	0.0	0.0
75°	2056.5	217.0	35.3	18.2	13.1	8.1	4.0	0.0	1.0	0.0	0.0
77.5°	445.0	100.9	22.2	13.1	9.1	5.0	2.0	0.0	0.0	0.0	0.0
80°	96.9	44.4	14.1	8.1	5.0	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.3	23.2	7.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.2	12.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	4.0	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)