

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: P321218

Luminaire Tested: **GAN-SA4D-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321218
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-SA4D-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA 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: 21129 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

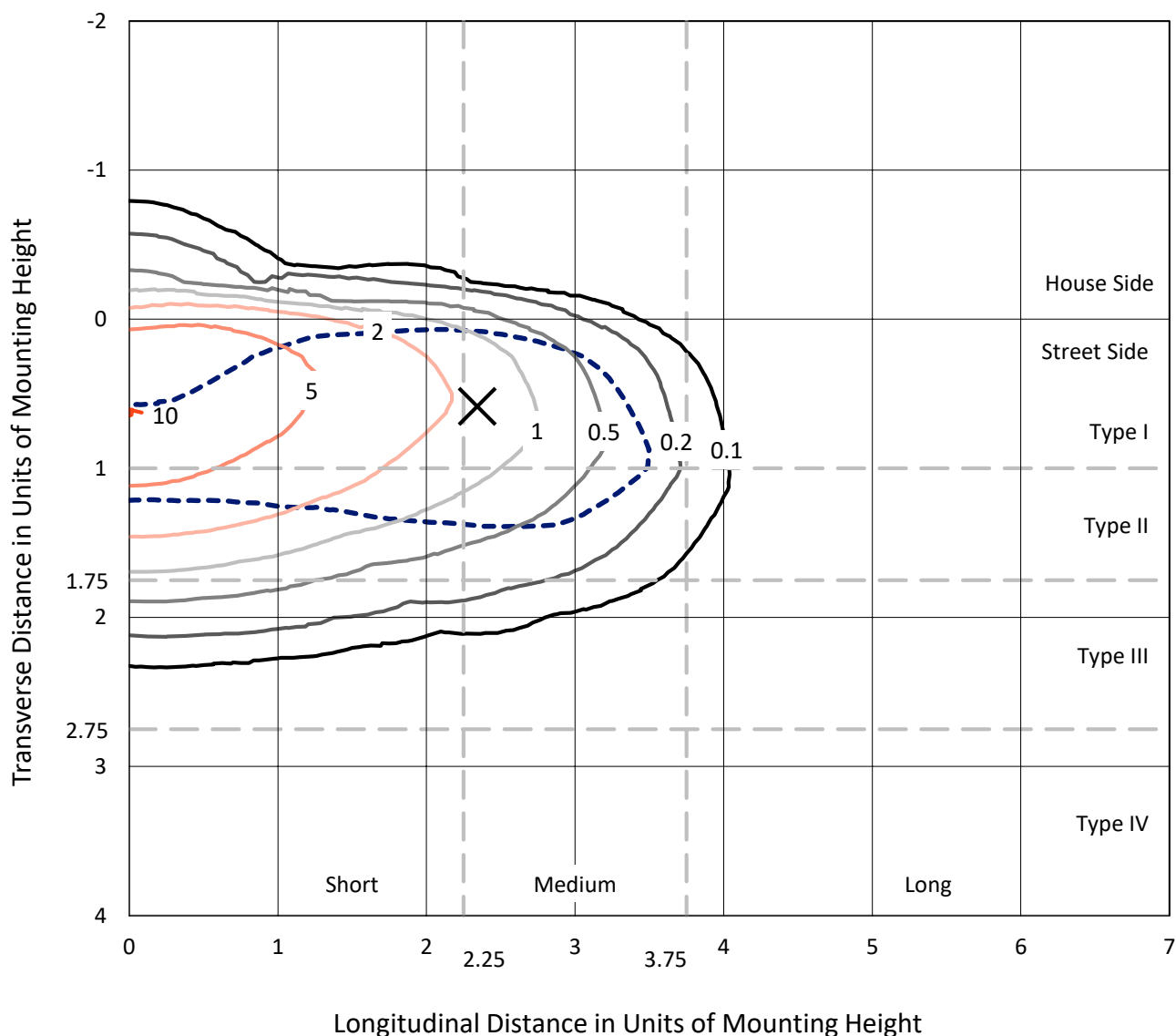
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

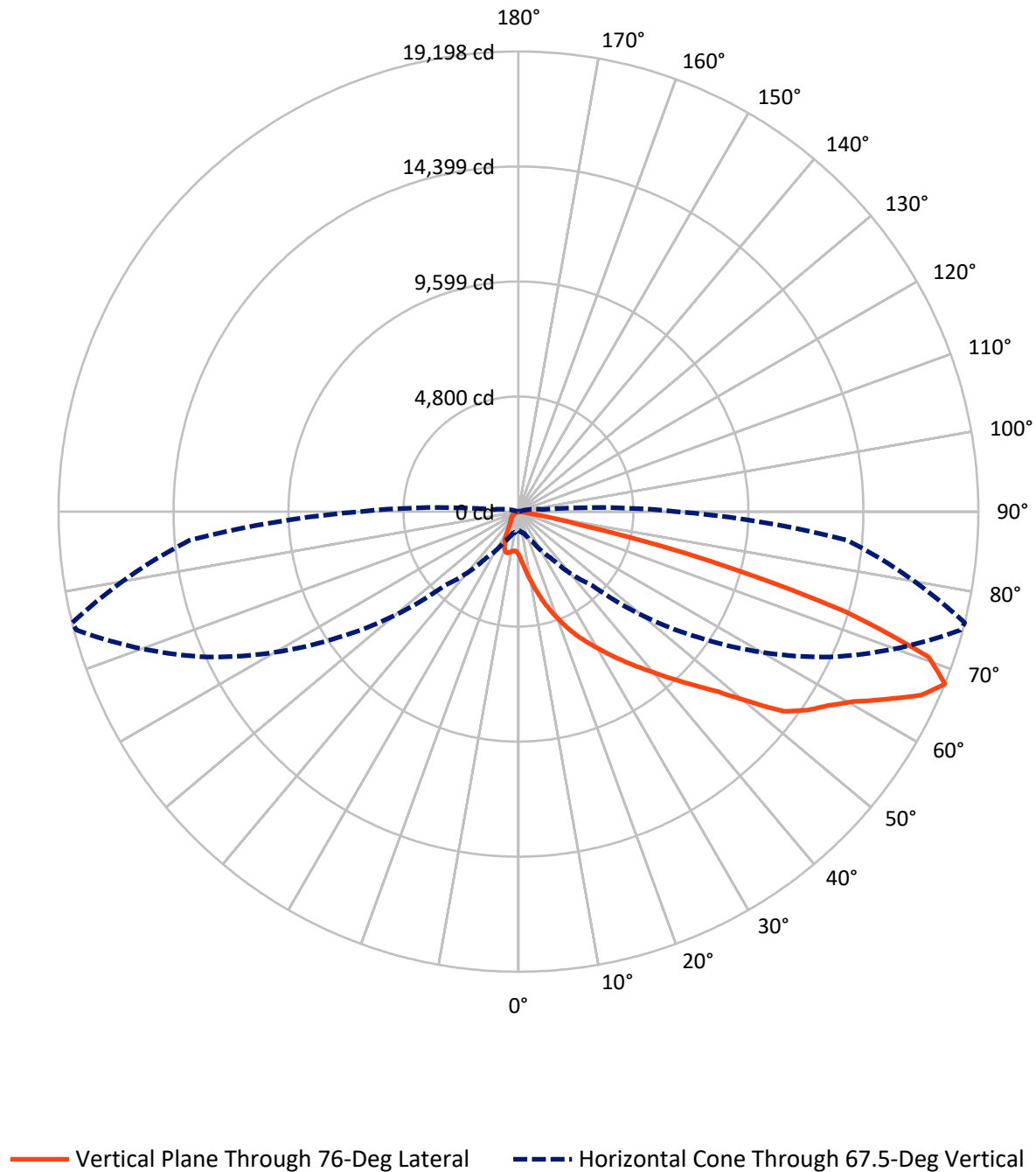
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	1049.2	0.0	1049.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	20079.8	0.0	20079.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	21129.0	0.0	21129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.9	1.1
10°-20°	883.5	4.2
20°-30°	1797.7	8.5
30°-40°	3120.1	14.8
40°-50°	4408.4	20.9
50°-60°	4999.3	23.7
60°-70°	4146.5	19.6
70°-80°	1502.0	7.1
80°-90°	48.7	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°	21129.0	100.0
0°-180°	21129.0	100.0

Coefficient of Utilization



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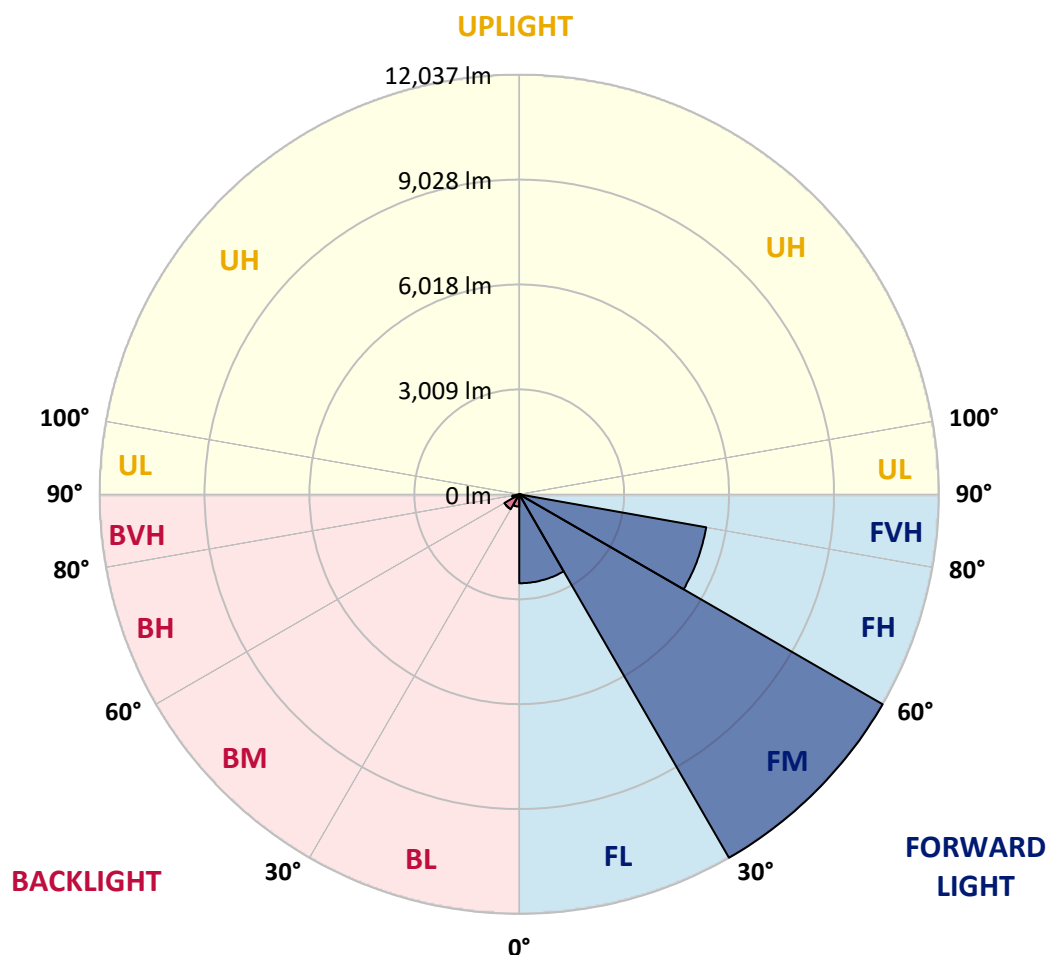
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2550.2	12.1			
FM	(30°-60°)	12036.8	57.0			
FH	(60°-80°)	5445.7	25.8			G3/7500
FVH	(80°-90°)	47.2	0.2			G1/100
BL	(0°-30°)	353.8	1.7	B1/500		
BM	(30°-60°)	491.1	2.3	B1/1000		
BH	(60°-80°)	202.8	1.0	B1/500		G1/500
BVH	(80°-90°)	1.5	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°	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4
2.5°	2675.6	2615.4	2629.3	2590.4	2520.0	2375.6	2252.5	2135.8	1999.7	1995.1	1883.1
5°	3607.8	3556.9	3550.4	3471.8	3344.0	3098.7	2859.8	2587.6	2284.0	2261.7	2023.8
7.5°	4454.0	4413.3	4398.5	4305.0	4067.0	3828.2	3517.1	3117.2	2642.2	2601.5	2213.6
10°	5103.9	5084.5	5088.2	5021.5	4817.9	4595.7	4187.4	3677.3	3048.7	2985.7	2441.3
12.5°	5596.5	5601.1	5634.4	5593.7	5479.8	5315.0	4879.0	4274.4	3498.6	3412.5	2701.5
15°	5958.5	5981.6	6042.7	6093.6	6085.3	5942.7	5542.8	4880.8	3976.3	3881.0	2991.3
17.5°	6192.7	6218.6	6307.5	6420.4	6524.1	6490.8	6183.4	5465.9	4459.6	4349.4	3301.4
20°	6398.2	6428.8	6524.1	6673.2	6866.7	6908.3	6706.5	6033.4	4941.9	4807.7	3621.7
22.5°	6843.5	6842.6	6900.9	6987.9	7172.2	7279.6	7151.8	6560.2	5418.7	5278.9	3948.5
25°	7649.0	7618.4	7598.1	7529.5	7570.3	7636.9	7565.6	7052.8	5898.3	5756.6	4280.0
27.5°	8606.2	8624.8	8460.0	8275.7	8133.2	8064.7	7948.0	7509.2	6359.3	6203.8	4604.0
30°	9616.3	9621.9	9427.4	9192.3	8878.4	8618.3	8416.5	7945.2	6833.3	6663.9	4918.8
32.5°	10527.3	10491.2	10298.6	9978.3	9582.0	9289.5	8870.1	8432.2	7335.1	7171.3	5268.7
35°	11249.4	11206.8	10972.6	10681.0	10269.9	9975.5	9470.9	8918.2	7862.8	7702.7	5619.6
37.5°	11777.1	11727.1	11486.4	11186.5	10831.9	10660.6	10168.1	9446.9	8438.7	8266.5	5989.0
40°	11960.4	11916.9	11766.0	11546.6	11261.4	11222.6	10907.8	10055.1	9065.4	8882.1	6407.5
42.5°	11851.2	11808.6	11754.9	11680.8	11562.3	11599.4	11605.8	10748.6	9761.6	9581.1	6869.4
45°	11417.9	11379.9	11435.5	11543.8	11691.0	11874.3	12242.8	11493.8	10539.3	10346.8	7403.6
47.5°	10780.0	10752.3	10905.9	11176.3	11606.8	12112.3	12825.1	12277.0	11412.4	11233.7	8070.2
50°	9872.7	9868.1	10175.5	10668.9	11330.9	12227.1	13426.9	13167.7	12625.2	12437.2	8996.9
52.5°	8460.0	8469.2	9073.8	9863.5	10846.7	12149.3	13813.9	14312.0	14036.1	13840.7	9799.6
55°	7114.8	7170.3	7599.0	8737.7	10104.2	11860.4	13947.2	14846.1	14814.7	14629.5	10245.8
57.5°	5797.4	5898.3	6311.2	7374.9	9020.1	11194.8	13874.1	15077.6	15394.2	15252.6	10834.7
60°	4369.8	4416.1	4891.9	5886.2	7628.6	9980.1	13343.6	15203.5	16186.7	16088.6	11689.2
62.5°	2780.2	2895.9	3318.1	4277.2	5939.9	8293.3	12449.2	15201.7	17178.2	17231.9	12791.8
65°	1464.6	1599.8	1823.8	2650.6	4081.9	6409.3	11104.1	15059.1	18394.7	18469.7	13653.7
67.5°	789.7	828.6	947.1	1375.7	2367.3	4342.0	9127.5	14355.5	19099.3	19198.3	13774.1
70°	577.7	599.0	643.4	761.0	1191.5	2521.9	6660.2	12760.3	18191.1	18154.0	12238.2
72.5°	443.5	476.8	510.1	557.3	685.1	1346.1	4146.7	9992.2	14514.7	14270.3	9147.8
75°	350.0	355.5	402.7	445.3	513.8	766.6	1841.4	5819.6	8859.0	8280.4	4743.8
77.5°	279.6	283.3	311.1	348.1	412.9	503.6	570.3	2289.5	2828.3	2523.7	1029.5
80°	165.7	175.0	231.5	268.5	342.5	317.5	208.3	497.2	441.6	399.9	173.1
82.5°	92.6	100.0	130.5	212.0	238.9	151.8	103.7	134.2	103.7	100.9	49.1
85°	0.0	4.6	84.2	131.5	97.2	33.3	43.5	44.4	30.6	28.7	19.4
87.5°	0.0	0.0	25.9	25.0	3.7	5.6	10.2	14.8	12.0	12.0	10.2
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°	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4
2.5°	1827.5	1777.5	1683.1	1590.5	1512.8	1448.9	1391.5	1368.3	1349.8	1347.0	1332.2
5°	1909.0	1808.1	1627.6	1479.4	1380.4	1310.0	1249.8	1212.8	1184.1	1173.0	1162.8
7.5°	2032.1	1879.4	1620.2	1449.8	1331.3	1212.8	1101.7	981.3	906.4	877.7	861.0
10°	2182.1	1973.8	1647.9	1441.5	1234.1	984.1	799.9	647.1	585.1	564.7	559.2
12.5°	2357.1	2091.4	1696.1	1389.6	1026.7	699.0	551.8	499.9	486.0	479.6	479.6
15°	2558.0	2220.1	1730.3	1239.6	759.2	528.6	477.7	453.6	438.8	430.5	431.4
17.5°	2763.5	2346.0	1713.7	1022.1	560.1	470.3	432.3	406.4	386.1	377.7	375.9
20°	2970.9	2462.6	1621.1	761.0	474.0	426.8	384.2	355.5	335.1	326.8	325.0
22.5°	3185.7	2561.7	1458.1	558.3	425.9	378.7	337.0	308.3	288.8	281.4	277.7
25°	3394.9	2642.2	1230.4	451.8	380.5	333.3	293.5	266.6	249.0	241.6	240.7
27.5°	3590.3	2693.2	966.5	399.0	340.7	292.6	256.4	232.4	217.6	212.0	211.1
30°	3766.2	2697.8	714.7	360.1	305.5	257.4	224.0	202.8	189.8	184.2	182.4
32.5°	3943.9	2658.9	520.3	325.0	273.1	226.8	194.4	177.8	168.5	163.9	163.9
35°	4111.5	2569.1	405.5	294.4	241.6	197.2	171.3	159.2	153.7	149.1	149.1
37.5°	4275.3	2440.4	344.4	267.6	212.0	172.2	150.9	143.5	138.9	134.2	134.2
40°	4442.0	2278.4	312.9	242.6	187.9	152.8	134.2	127.8	123.1	119.4	118.5
42.5°	4646.6	2091.4	292.6	219.4	166.6	135.2	118.5	111.1	107.4	103.7	101.8
45°	4883.6	1930.3	275.9	196.3	149.1	120.4	102.8	95.4	89.8	85.2	84.2
47.5°	5225.2	1813.6	253.7	171.3	132.4	104.6	88.9	80.5	72.2	67.6	66.7
50°	5661.3	1717.4	225.0	149.1	115.7	88.9	74.1	63.9	56.5	51.8	51.8
52.5°	5877.9	1591.5	199.0	129.6	97.2	75.0	60.2	48.1	44.4	39.8	39.8
55°	5964.9	1495.2	173.1	110.2	80.5	62.0	47.2	37.0	34.3	31.5	30.6
57.5°	6209.3	1467.4	150.9	93.5	66.7	49.1	36.1	27.8	25.9	22.2	22.2
60°	6602.8	1481.3	130.5	79.6	53.7	38.0	26.8	21.3	19.4	15.7	15.7
62.5°	7027.8	1463.7	110.2	68.5	41.7	27.8	18.5	15.7	15.7	9.3	8.3
65°	7109.2	1303.5	94.4	56.5	32.4	20.4	12.0	10.2	13.9	1.9	0.0
67.5°	6598.2	1011.0	81.5	43.5	24.1	15.7	9.3	4.6	12.0	0.0	0.0
70°	5276.1	642.5	65.7	31.5	18.5	13.0	7.4	1.9	9.3	0.0	0.0
72.5°	3731.0	373.1	51.8	22.2	15.7	10.2	5.6	0.0	5.6	0.0	0.0
75°	1886.8	199.0	32.4	16.7	12.0	7.4	3.7	0.0	0.9	0.0	0.0
77.5°	408.3	92.6	20.4	12.0	8.3	4.6	1.9	0.0	0.0	0.0	0.0
80°	88.9	40.7	13.0	7.4	4.6	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	32.4	21.3	6.5	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.6	11.1	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	3.7	0.9	0.9	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)