

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: P321391

Luminaire Tested: **GAN-SA7A-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321391
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-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 19559 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

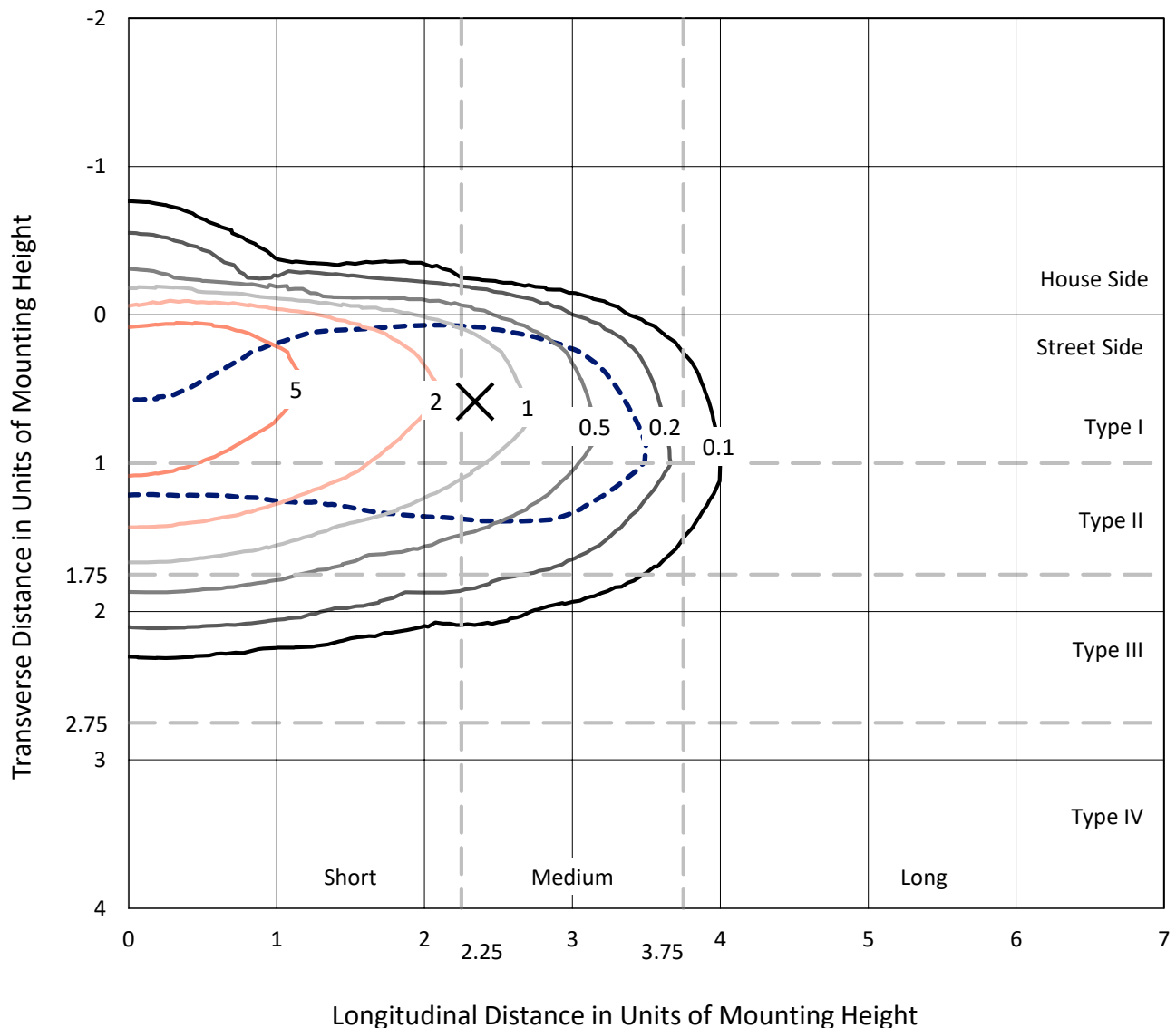
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

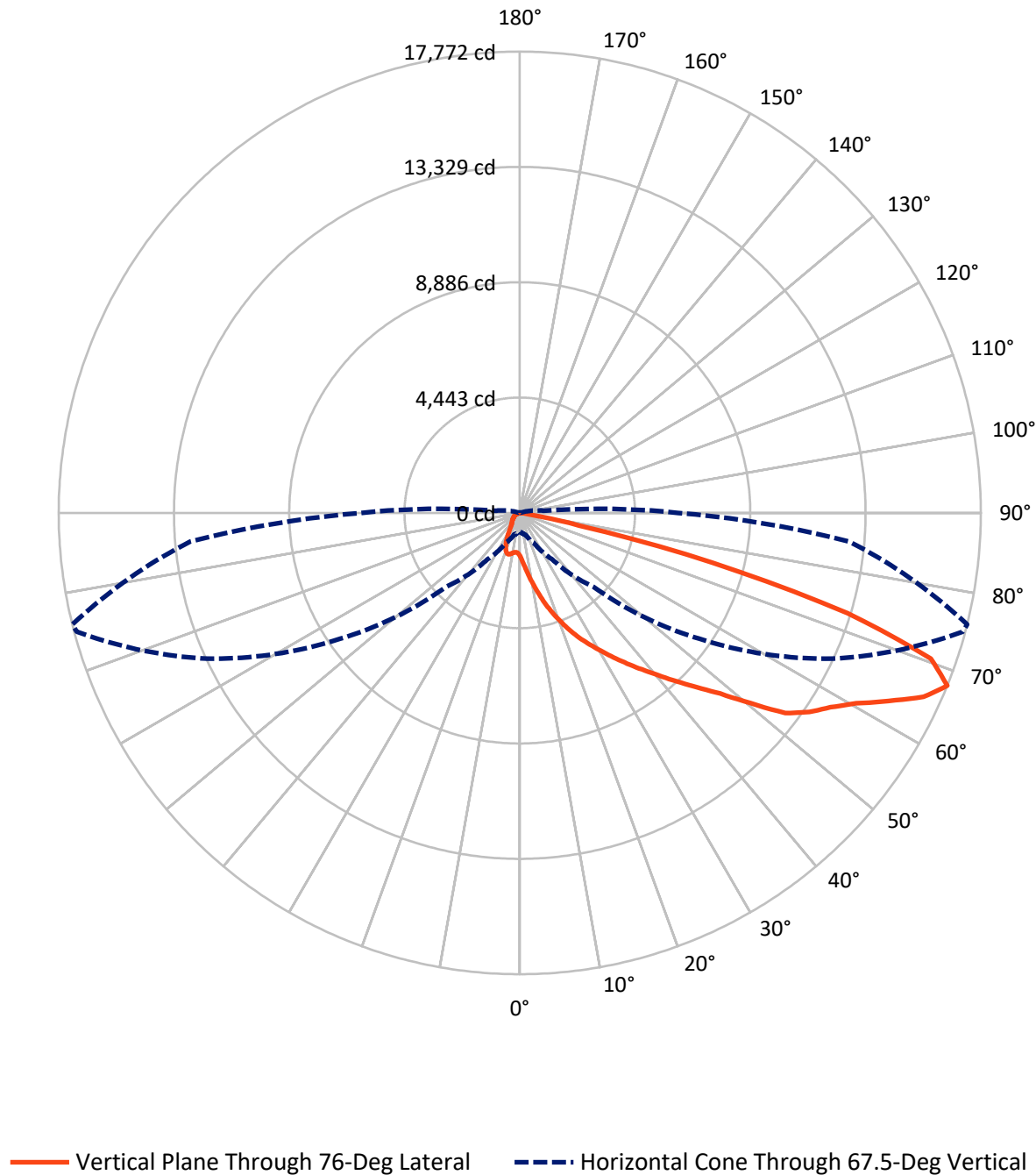
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	971.3	0.0	971.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	18587.7	0.0	18587.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	19559.0	0.0	19559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.3	1.1
10°-20°	817.9	4.2
20°-30°	1664.1	8.5
30°-40°	2888.3	14.8
40°-50°	4080.8	20.9
50°-60°	4627.8	23.7
60°-70°	3838.4	19.6
70°-80°	1390.4	7.1
80°-90°	45.1	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°	19559.0	100.0
0°-180°	19559.0	100.0

Coefficient of Utilization



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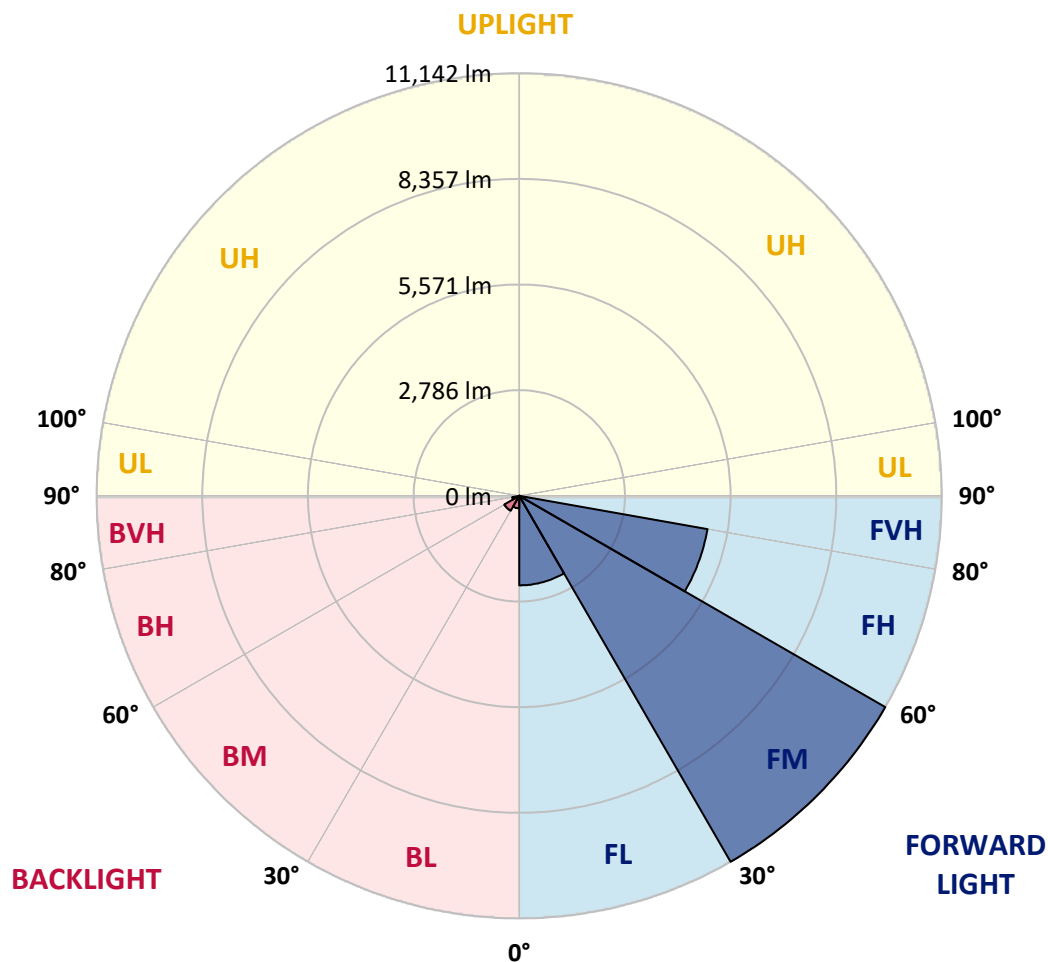
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2360.7	12.1			
FM	(30°-60°)	11142.4	57.0			
FH	(60°-80°)	5041.0	25.8			G3/7500
FVH	(80°-90°)	43.7	0.2			G1/100
BL	(0°-30°)	327.6	1.7	B1/500		
BM	(30°-60°)	454.6	2.3	B1/1000		
BH	(60°-80°)	187.7	1.0	B1/500		G1/500
BVH	(80°-90°)	1.4	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°	1659.2	1659.2	1659.2	1659.2	1659.2	1659.2	1659.2	1659.2	1659.2	1659.2	1659.2
2.5°	2476.8	2421.1	2433.9	2397.9	2332.8	2199.1	2085.1	1977.1	1851.1	1846.9	1743.2
5°	3339.8	3292.6	3286.6	3213.8	3095.5	2868.4	2647.3	2395.3	2114.2	2093.7	1873.4
7.5°	4123.1	4085.4	4071.7	3985.1	3764.8	3543.7	3255.8	2885.5	2445.9	2408.2	2049.1
10°	4724.7	4706.7	4710.1	4648.4	4459.9	4254.2	3876.3	3404.0	2822.1	2763.9	2259.9
12.5°	5180.6	5184.9	5215.8	5178.0	5072.6	4920.1	4516.4	3956.8	3238.6	3158.9	2500.8
15°	5515.7	5537.1	5593.7	5640.8	5633.1	5501.1	5130.9	4518.2	3680.9	3592.6	2769.0
17.5°	5732.5	5756.5	5838.8	5943.4	6039.3	6008.5	5724.0	5059.8	4128.2	4026.2	3056.1
20°	5922.8	5951.1	6039.3	6177.3	6356.4	6395.0	6208.2	5585.1	4574.7	4450.4	3352.6
22.5°	6335.0	6334.2	6388.1	6468.7	6639.2	6738.7	6620.4	6072.8	5016.1	4886.7	3655.1
25°	7080.6	7052.3	7033.5	6970.1	7007.8	7069.5	7003.5	6528.7	5460.0	5328.9	3962.0
27.5°	7966.8	7983.9	7831.3	7660.8	7528.8	7465.4	7357.4	6951.2	5886.8	5742.8	4261.9
30°	8901.8	8906.9	8726.9	8509.2	8218.7	7977.9	7791.1	7354.9	6325.6	6168.8	4553.3
32.5°	9745.1	9711.6	9533.4	9236.8	8870.0	8599.2	8211.0	7805.6	6790.1	6638.4	4877.2
35°	10413.5	10374.1	10157.3	9887.3	9506.8	9234.3	8767.2	8255.6	7278.6	7130.3	5202.0
37.5°	10902.0	10855.7	10632.9	10355.2	10027.0	9868.5	9412.5	8744.9	7811.6	7652.2	5544.0
40°	11071.7	11031.4	10891.7	10688.6	10424.7	10388.7	10097.3	9308.0	8391.8	8222.1	5931.4
42.5°	10970.6	10931.2	10881.4	10812.9	10703.2	10737.5	10743.5	9949.9	9036.3	8869.2	6359.0
45°	10569.5	10534.4	10585.8	10686.0	10822.3	10992.0	11333.1	10639.8	9756.2	9577.9	6853.5
47.5°	9979.0	9953.3	10095.6	10345.8	10744.3	11212.3	11872.1	11364.8	10564.4	10398.9	7470.5
50°	9139.1	9134.9	9419.4	9876.2	10488.9	11318.5	12429.2	12189.2	11687.0	11513.1	8328.4
52.5°	7831.3	7839.9	8399.5	9130.6	10040.7	11246.5	12787.4	13248.5	12993.1	12812.3	9071.4
55°	6586.1	6637.5	7034.3	8088.5	9353.4	10979.1	12910.8	13743.0	13713.9	13542.5	9484.5
57.5°	5366.6	5460.0	5842.2	6826.9	8349.8	10363.0	12843.1	13957.3	14250.3	14119.2	10029.6
60°	4045.1	4087.9	4528.4	5448.9	7061.8	9238.6	12352.1	14073.8	14983.9	14893.1	10820.6
62.5°	2573.6	2680.7	3071.5	3959.4	5498.6	7677.1	11524.2	14072.1	15901.8	15951.5	11841.3
65°	1355.8	1480.9	1688.3	2453.6	3778.6	5933.1	10279.0	13940.1	17027.9	17097.3	12639.2
67.5°	731.0	767.0	876.7	1273.5	2191.4	4019.4	8449.3	13288.8	17680.1	17771.8	12750.6
70°	534.8	554.5	595.6	704.5	1103.0	2334.5	6165.3	11812.2	16839.4	16805.1	11328.8
72.5°	410.5	441.4	472.2	515.9	634.2	1246.1	3838.5	9249.7	13436.2	13209.9	8468.1
75°	323.9	329.1	372.8	412.2	475.6	709.6	1704.6	5387.2	8200.7	7665.1	4391.3
77.5°	258.8	262.2	288.0	322.2	382.2	466.2	527.9	2119.4	2618.2	2336.2	953.0
80°	153.4	162.0	214.3	248.5	317.1	294.0	192.8	460.2	408.8	370.2	160.3
82.5°	85.7	92.6	120.8	196.3	221.1	140.5	96.0	124.3	96.0	93.4	45.4
85°	0.0	4.3	78.0	121.7	90.0	30.9	40.3	41.1	28.3	26.6	18.0
87.5°	0.0	0.0	24.0	23.1	3.4	5.1	9.4	13.7	11.1	11.1	9.4
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°	1659.2	1659.2	1659.2	1659.2	1659.2	1659.2	1659.2	1659.2	1659.2	1659.2	1659.2
2.5°	1691.7	1645.5	1558.0	1472.3	1400.4	1341.2	1288.1	1266.7	1249.5	1246.9	1233.2
5°	1767.2	1673.7	1506.6	1369.5	1277.8	1212.7	1157.0	1122.7	1096.1	1085.8	1076.4
7.5°	1881.1	1739.7	1499.8	1342.1	1232.4	1122.7	1019.8	908.4	839.0	812.4	797.0
10°	2020.0	1827.1	1525.5	1334.4	1142.4	911.0	740.5	599.0	541.6	522.8	517.6
12.5°	2181.9	1936.0	1570.0	1286.4	950.4	647.0	510.8	462.8	449.9	443.9	443.9
15°	2367.9	2055.1	1601.8	1147.5	702.7	489.4	442.2	419.9	406.2	398.5	399.4
17.5°	2558.2	2171.7	1586.3	946.1	518.5	435.4	400.2	376.2	357.4	349.7	347.9
20°	2750.1	2279.6	1500.6	704.5	438.8	395.1	355.7	329.1	310.2	302.5	300.8
22.5°	2949.0	2371.3	1349.8	516.8	394.2	350.5	312.0	285.4	267.4	260.5	257.1
25°	3142.7	2445.9	1139.0	418.2	352.2	308.5	271.7	246.8	230.5	223.7	222.8
27.5°	3323.5	2493.0	894.7	369.4	315.4	270.8	237.4	215.1	201.4	196.3	195.4
30°	3486.3	2497.3	661.6	333.4	282.8	238.2	207.4	187.7	175.7	170.5	168.8
32.5°	3650.9	2461.3	481.6	300.8	252.8	210.0	180.0	164.5	156.0	151.7	151.7
35°	3806.0	2378.2	375.4	272.5	223.7	182.5	158.5	147.4	142.3	138.0	138.0
37.5°	3957.7	2259.1	318.8	247.7	196.3	159.4	139.7	132.8	128.6	124.3	124.3
40°	4111.9	2109.1	289.7	224.5	174.0	141.4	124.3	118.3	114.0	110.6	109.7
42.5°	4301.3	1936.0	270.8	203.1	154.3	125.1	109.7	102.8	99.4	96.0	94.3
45°	4520.7	1786.9	255.4	181.7	138.0	111.4	95.1	88.3	83.1	78.8	78.0
47.5°	4837.0	1678.9	234.8	158.5	122.6	96.8	82.3	74.6	66.8	62.6	61.7
50°	5240.6	1589.8	208.3	138.0	107.1	82.3	68.6	59.1	52.3	48.0	48.0
52.5°	5441.2	1473.2	184.3	120.0	90.0	69.4	55.7	44.6	41.1	36.9	36.9
55°	5521.7	1384.1	160.3	102.0	74.6	57.4	43.7	34.3	31.7	29.1	28.3
57.5°	5748.0	1358.4	139.7	86.6	61.7	45.4	33.4	25.7	24.0	20.6	20.6
60°	6112.2	1371.2	120.8	73.7	49.7	35.1	24.9	19.7	18.0	14.6	14.6
62.5°	6505.6	1354.9	102.0	63.4	38.6	25.7	17.1	14.6	14.6	8.6	7.7
65°	6581.0	1206.7	87.4	52.3	30.0	18.9	11.1	9.4	12.9	1.7	0.0
67.5°	6107.9	935.9	75.4	40.3	22.3	14.6	8.6	4.3	11.1	0.0	0.0
70°	4884.1	594.8	60.8	29.1	17.1	12.0	6.9	1.7	8.6	0.0	0.0
72.5°	3453.7	345.4	48.0	20.6	14.6	9.4	5.1	0.0	5.1	0.0	0.0
75°	1746.6	184.3	30.0	15.4	11.1	6.9	3.4	0.0	0.9	0.0	0.0
77.5°	377.9	85.7	18.9	11.1	7.7	4.3	1.7	0.0	0.0	0.0	0.0
80°	82.3	37.7	12.0	6.9	4.3	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	30.0	19.7	6.0	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.3	10.3	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.6	3.4	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)