

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: P321217

Luminaire Tested: **GAN-SA3D-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321217
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-SA3D-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 15990 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

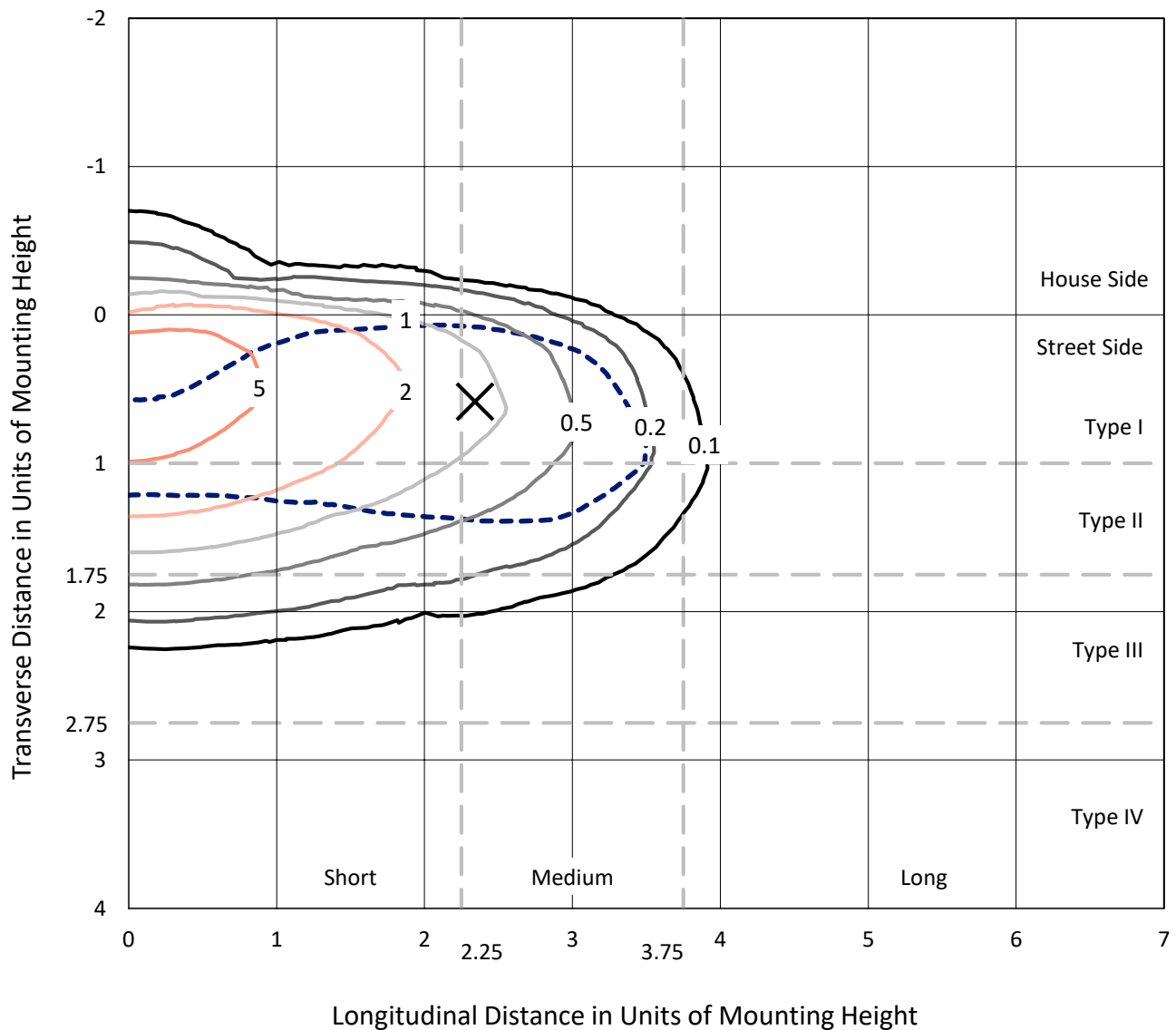
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

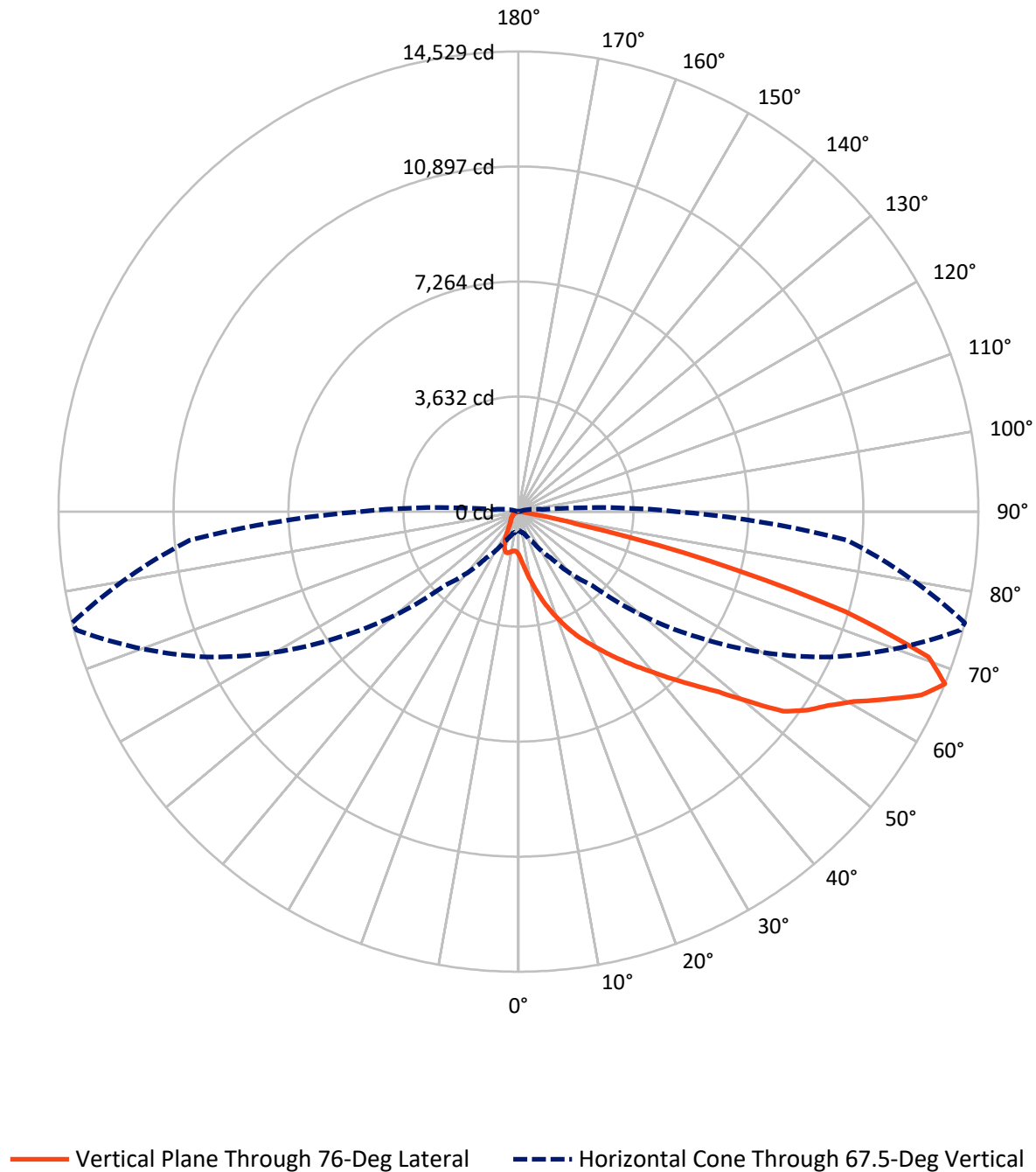
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	794.0	0.0	794.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	15196.0	0.0	15196.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	15990.0	0.0	15990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	1.1
10°-20°	668.6	4.2
20°-30°	1360.4	8.5
30°-40°	2361.3	14.8
40°-50°	3336.2	20.9
50°-60°	3783.4	23.7
60°-70°	3137.9	19.6
70°-80°	1136.6	7.1
80°-90°	36.9	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°	15990.0	100.0
0°-180°	15990.0	100.0

Coefficient of Utilization



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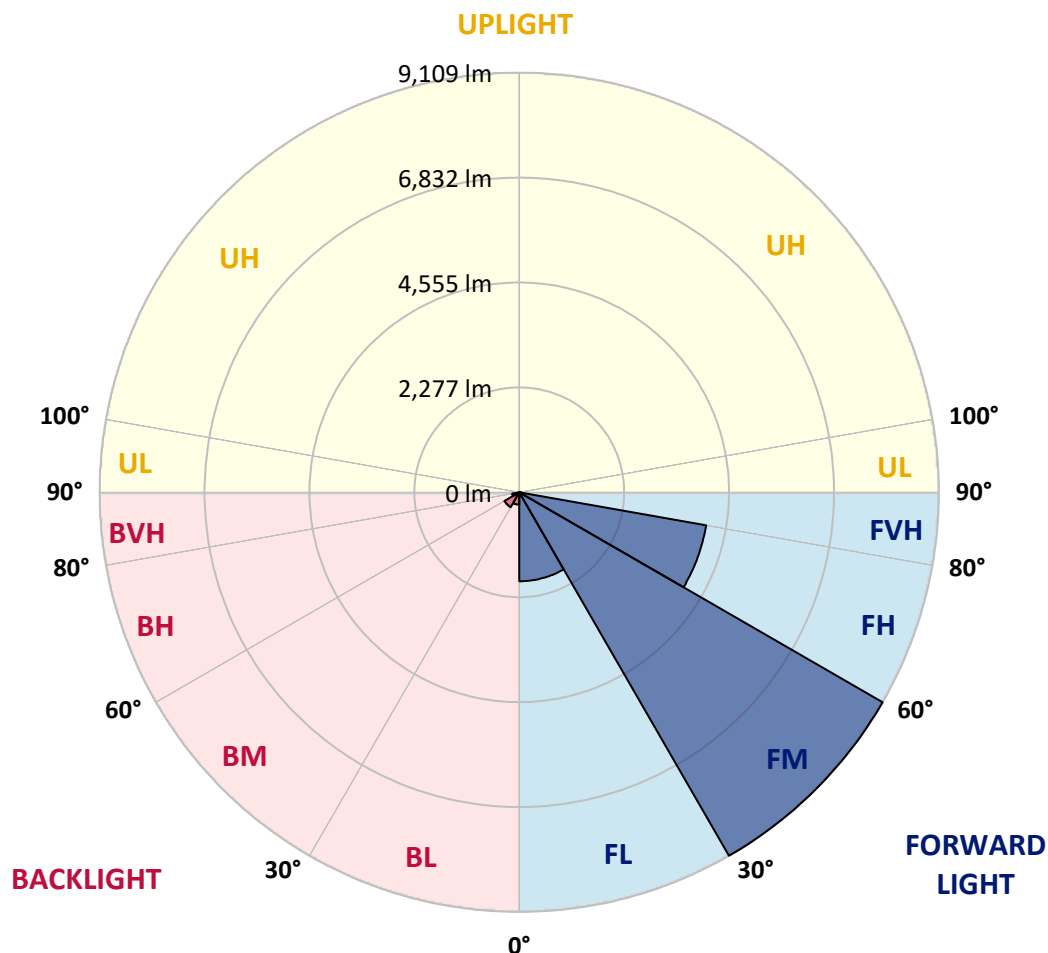
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1929.9	12.1			
FM	(30°-60°)	9109.2	57.0			
FH	(60°-80°)	4121.2	25.8			G2/5000
FVH	(80°-90°)	35.7	0.2			G1/100
BL	(0°-30°)	267.8	1.7	B1/500		
BM	(30°-60°)	371.6	2.3	B1/1000		
BH	(60°-80°)	153.4	1.0	B1/500		G1/500
BVH	(80°-90°)	1.2	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°	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4
2.5°	2024.8	1979.3	1989.8	1960.4	1907.1	1797.8	1704.6	1616.3	1513.4	1509.9	1425.1
5°	2730.3	2691.8	2686.9	2627.4	2530.7	2345.0	2164.2	1958.3	1728.4	1711.6	1531.6
7.5°	3370.7	3339.9	3328.7	3257.9	3077.9	2897.1	2661.7	2359.0	1999.6	1968.8	1675.2
10°	3862.6	3847.8	3850.6	3800.2	3646.1	3477.9	3168.9	2782.9	2307.2	2259.5	1847.6
12.5°	4235.3	4238.8	4264.0	4233.2	4147.0	4022.3	3692.3	3234.8	2647.7	2582.5	2044.4
15°	4509.2	4526.8	4573.0	4611.5	4605.2	4497.3	4194.7	3693.7	3009.2	2937.0	2263.7
17.5°	4686.5	4706.1	4773.4	4858.9	4937.3	4912.1	4679.5	4136.5	3374.9	3291.5	2498.4
20°	4842.0	4865.2	4937.3	5050.1	5196.6	5228.1	5075.3	4566.0	3740.0	3638.4	2740.9
22.5°	5179.0	5178.3	5222.5	5288.3	5427.8	5509.0	5412.3	4964.6	4100.8	3995.0	2988.2
25°	5788.6	5765.5	5750.1	5698.2	5729.0	5779.5	5725.5	5337.4	4463.7	4356.5	3239.0
27.5°	6513.0	6527.0	6402.3	6262.9	6155.0	6103.2	6014.9	5682.8	4812.6	4694.9	3484.2
30°	7277.4	7281.6	7134.5	6956.5	6719.0	6522.1	6369.4	6012.8	5171.3	5043.1	3722.4
32.5°	7966.8	7939.5	7793.8	7551.4	7251.5	7030.1	6712.7	6381.3	5551.1	5427.1	3987.3
35°	8513.3	8481.1	8303.8	8083.1	7772.1	7549.3	7167.4	6749.1	5950.4	5829.2	4252.8
37.5°	8912.7	8874.9	8692.7	8465.7	8197.3	8067.7	7695.0	7149.2	6386.2	6255.9	4532.4
40°	9051.4	9018.5	8904.3	8738.2	8522.4	8493.0	8254.8	7609.5	6860.5	6721.8	4849.0
42.5°	8968.7	8936.5	8895.9	8839.8	8750.1	8778.2	8783.1	8134.3	7387.4	7250.8	5198.7
45°	8640.8	8612.1	8654.2	8736.1	8847.5	8986.3	9265.1	8698.3	7975.9	7830.2	5602.9
47.5°	8158.1	8137.1	8253.4	8458.0	8783.8	9166.3	9705.8	9291.0	8636.6	8501.4	6107.4
50°	7471.5	7468.0	7700.6	8074.0	8575.0	9253.2	10161.2	9965.0	9554.5	9412.2	6808.7
52.5°	6402.3	6409.3	6866.9	7464.5	8208.6	9194.3	10454.1	10831.0	10622.2	10474.4	7416.1
55°	5384.3	5426.4	5750.8	6612.5	7646.7	8975.7	10555.0	11235.3	11211.4	11071.3	7753.8
57.5°	4387.3	4463.7	4776.2	5581.2	6826.2	8472.0	10499.6	11410.4	11650.0	11542.8	8199.4
60°	3307.0	3342.0	3702.1	4454.6	5773.2	7552.8	10098.1	11505.7	12249.8	12175.5	8846.1
62.5°	2104.0	2191.6	2511.0	3236.9	4495.2	6276.2	9421.3	11504.3	13000.1	13040.8	9680.6
65°	1108.4	1210.7	1380.2	2005.9	3089.1	4850.4	8403.3	11396.4	13920.8	13977.5	10332.9
67.5°	597.6	627.1	716.7	1041.1	1791.5	3285.9	6907.5	10863.9	14453.9	14528.9	10423.9
70°	437.2	453.3	486.9	575.9	901.7	1908.5	5040.3	9656.8	13766.6	13738.6	9261.6
72.5°	335.6	360.8	386.0	421.8	518.5	1018.7	3138.1	7561.9	10984.4	10799.5	6922.9
75°	264.8	269.0	304.8	337.0	388.8	580.1	1393.5	4404.1	6704.3	6266.4	3590.0
77.5°	211.6	214.4	235.4	263.4	312.5	381.1	431.6	1732.7	2140.4	1909.9	779.1
80°	125.4	132.4	175.2	203.2	259.2	240.3	157.6	376.2	334.2	302.7	131.0
82.5°	70.1	75.7	98.8	160.4	180.8	114.9	78.5	101.6	78.5	76.4	37.1
85°	0.0	3.5	63.8	99.5	73.6	25.2	32.9	33.6	23.1	21.7	14.7
87.5°	0.0	0.0	19.6	18.9	2.8	4.2	7.7	11.2	9.1	9.1	7.7
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°	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4
2.5°	1383.0	1345.2	1273.7	1203.7	1144.8	1096.5	1053.0	1035.5	1021.5	1019.4	1008.2
5°	1444.7	1368.3	1231.7	1119.6	1044.6	991.4	945.8	917.8	896.1	887.7	880.0
7.5°	1537.9	1422.3	1226.1	1097.2	1007.5	917.8	833.7	742.7	685.9	664.2	651.6
10°	1651.4	1493.7	1247.1	1090.9	933.9	744.8	605.3	489.7	442.8	427.4	423.2
12.5°	1783.8	1582.7	1283.5	1051.6	777.0	529.0	417.6	378.3	367.8	362.9	362.9
15°	1935.8	1680.1	1309.5	938.1	574.5	400.1	361.5	343.3	332.1	325.8	326.5
17.5°	2091.4	1775.4	1296.9	773.5	423.9	355.9	327.2	307.6	292.2	285.9	284.5
20°	2248.3	1863.7	1226.8	575.9	358.7	323.0	290.8	269.0	253.6	247.3	245.9
22.5°	2410.9	1938.6	1103.5	422.5	322.3	286.6	255.0	233.3	218.6	213.0	210.2
25°	2569.2	1999.6	931.1	341.9	288.0	252.2	222.1	201.8	188.5	182.9	182.2
27.5°	2717.0	2038.1	731.5	302.0	257.8	221.4	194.1	175.9	164.6	160.4	159.7
30°	2850.2	2041.6	540.9	272.5	231.2	194.8	169.6	153.4	143.6	139.4	138.0
32.5°	2984.7	2012.2	393.8	245.9	206.7	171.7	147.1	134.5	127.5	124.0	124.0
35°	3111.5	1944.2	306.9	222.8	182.9	149.2	129.6	120.5	116.3	112.8	112.8
37.5°	3235.5	1846.9	260.6	202.5	160.4	130.3	114.2	108.6	105.1	101.6	101.6
40°	3361.6	1724.2	236.8	183.6	142.2	115.6	101.6	96.7	93.2	90.4	89.7
42.5°	3516.5	1582.7	221.4	166.0	126.1	102.3	89.7	84.1	81.3	78.5	77.1
45°	3695.8	1460.8	208.8	148.5	112.8	91.1	77.8	72.2	68.0	64.5	63.8
47.5°	3954.3	1372.5	192.0	129.6	100.2	79.2	67.3	61.0	54.6	51.1	50.4
50°	4284.3	1299.7	170.3	112.8	87.6	67.3	56.1	48.3	42.7	39.2	39.2
52.5°	4448.3	1204.4	150.6	98.1	73.6	56.8	45.5	36.4	33.6	30.1	30.1
55°	4514.1	1131.5	131.0	83.4	61.0	46.9	35.7	28.0	25.9	23.8	23.1
57.5°	4699.1	1110.5	114.2	70.8	50.4	37.1	27.3	21.0	19.6	16.8	16.8
60°	4996.9	1121.0	98.8	60.3	40.6	28.7	20.3	16.1	14.7	11.9	11.9
62.5°	5318.5	1107.7	83.4	51.8	31.5	21.0	14.0	11.9	11.9	7.0	6.3
65°	5380.1	986.5	71.5	42.7	24.5	15.4	9.1	7.7	10.5	1.4	0.0
67.5°	4993.4	765.1	61.7	32.9	18.2	11.9	7.0	3.5	9.1	0.0	0.0
70°	3992.9	486.2	49.7	23.8	14.0	9.8	5.6	1.4	7.0	0.0	0.0
72.5°	2823.5	282.4	39.2	16.8	11.9	7.7	4.2	0.0	4.2	0.0	0.0
75°	1427.9	150.6	24.5	12.6	9.1	5.6	2.8	0.0	0.7	0.0	0.0
77.5°	309.0	70.1	15.4	9.1	6.3	3.5	1.4	0.0	0.0	0.0	0.0
80°	67.3	30.8	9.8	5.6	3.5	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	24.5	16.1	4.9	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.3	8.4	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	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)