

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: P459551

Luminaire Tested: **GLAN-SA9D-735-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9D-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51149 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

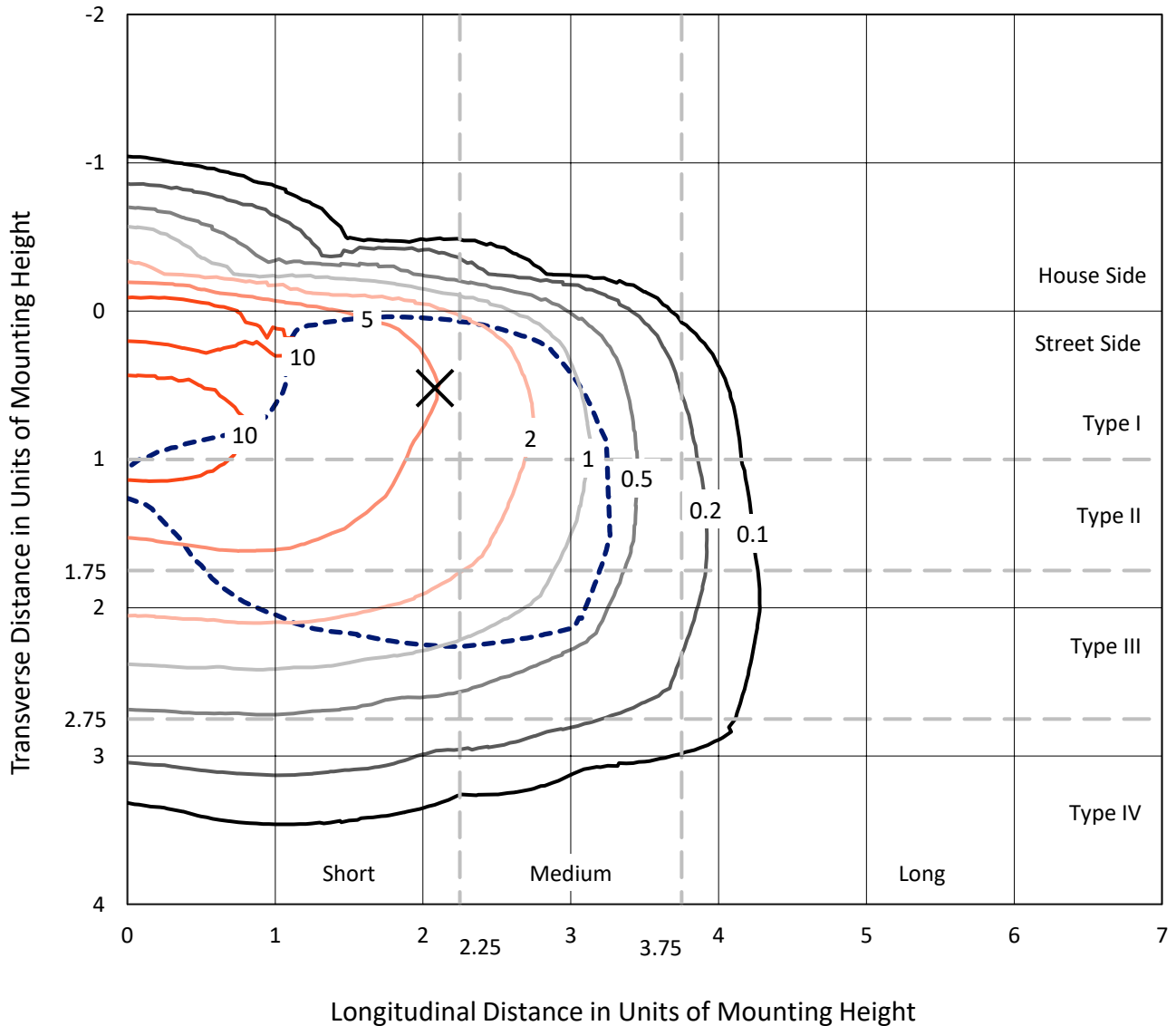
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

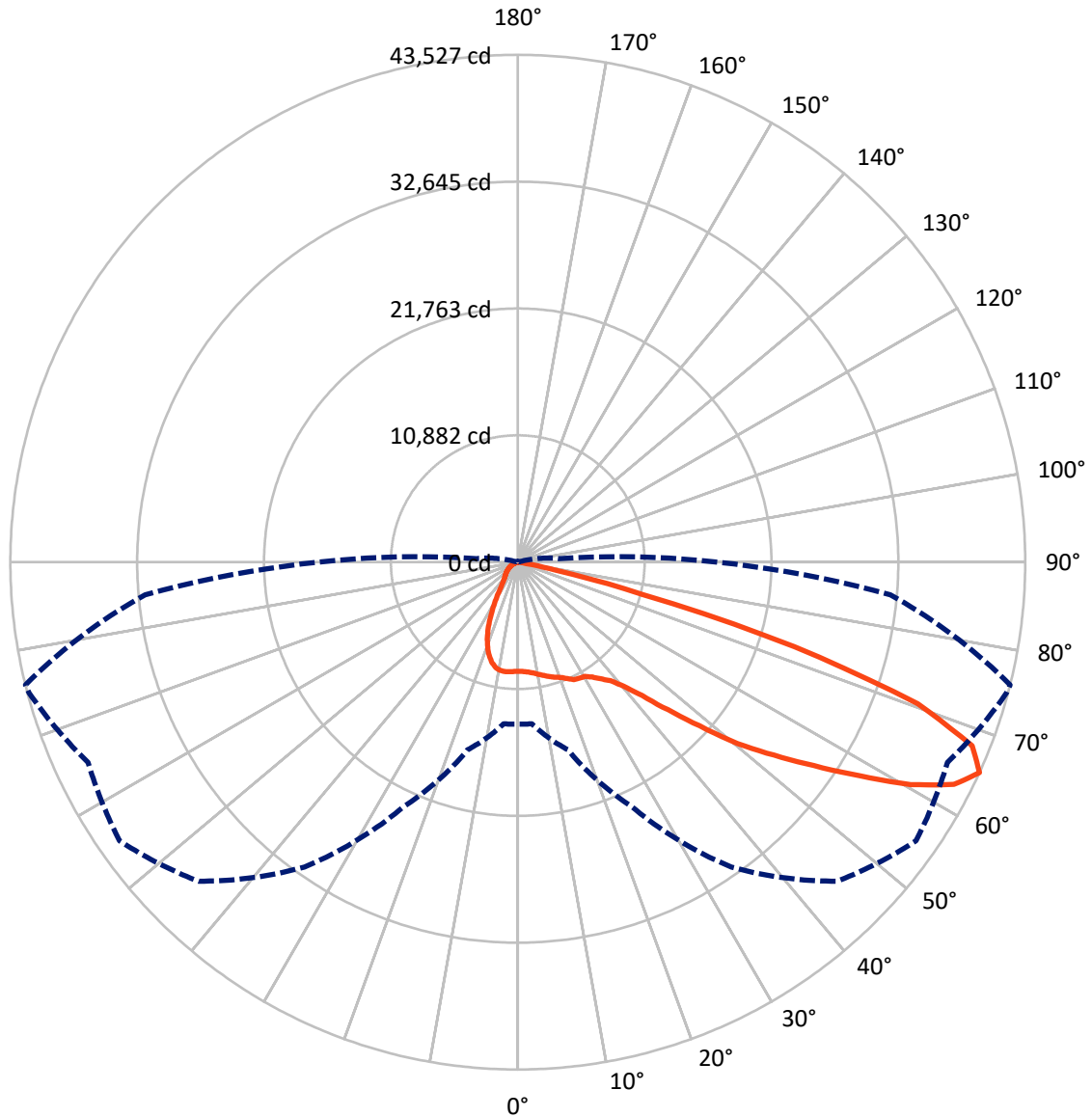
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3694.0	0.0	3694.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	47455.0	0.0	47455.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	51149.0	0.0	51149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	770.8	1.5
10°-20°	1716.2	3.4
20°-30°	2765.5	5.4
30°-40°	4808.5	9.4
40°-50°	7945.8	15.5
50°-60°	12274.6	24.0
60°-70°	14989.0	29.3
70°-80°	5688.7	11.1
80°-90°	189.8	0.4
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°	51149.0	100.0
0°-180°	51149.0	100.0

Coefficient of Utilization



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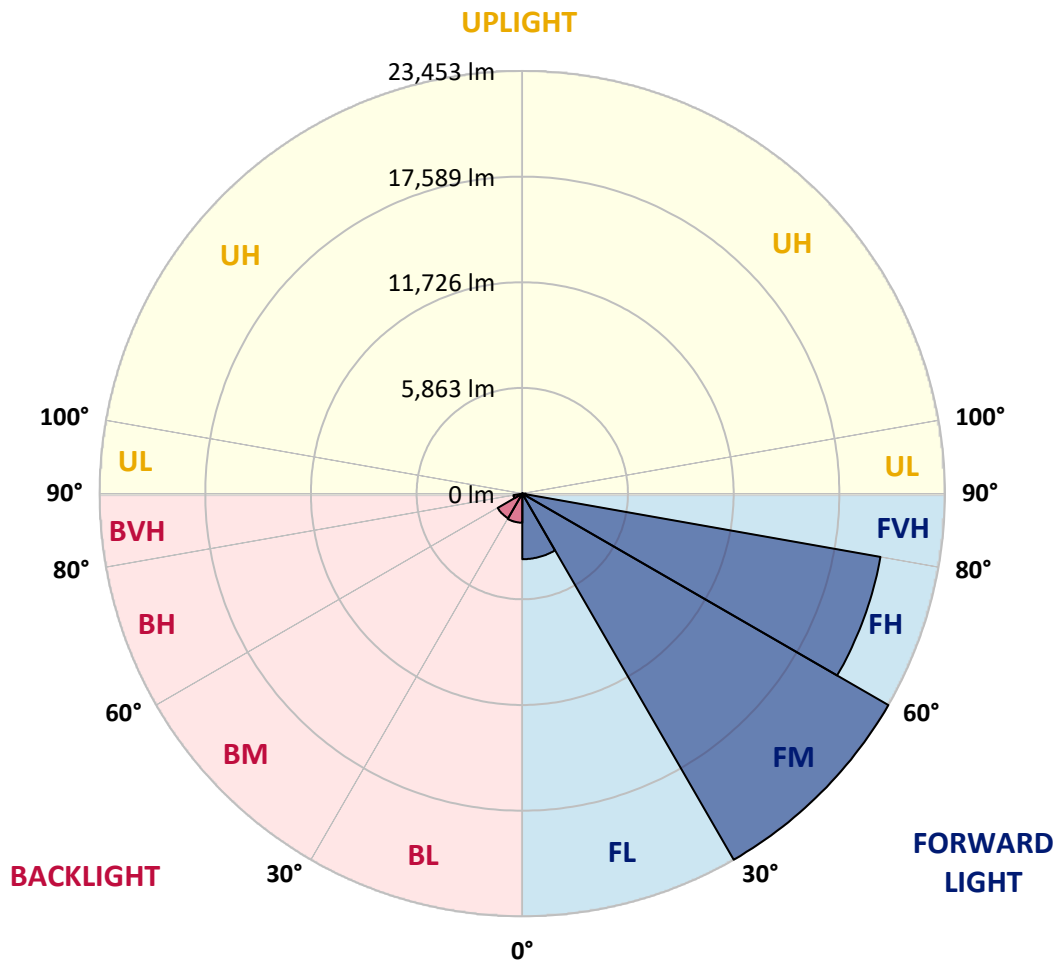
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3638.6	7.1			
FM	(30°-60°)	23452.6	45.9			
FH	(60°-80°)	20176.6	39.4			G5
FVH	(80°-90°)	187.2	0.4			G2/225
BL	(0°-30°)	1613.8	3.2	B3/2500		
BM	(30°-60°)	1576.3	3.1	B2/2500		
BH	(60°-80°)	501.2	1.0	B2/1000		G2/1000
BVH	(80°-90°)	2.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	9356.8	9356.8	9356.8	9356.8	9356.8	9356.8	9356.8	9356.8	9356.8	9356.8	9356.8
2.5°	8941.5	8945.1	8966.8	9020.9	9104.0	9172.6	9230.4	9324.3	9389.3	9396.5	9418.2
5°	8324.0	8280.6	8324.0	8464.8	8591.2	8782.6	9017.3	9252.1	9461.5	9476.0	9577.1
7.5°	7630.6	7666.7	7735.3	7879.8	8118.1	8410.6	8750.1	9169.0	9566.2	9602.4	9801.0
10°	6926.4	7005.9	7117.8	7338.1	7670.3	8049.5	8511.7	9111.2	9732.4	9782.9	10126.0
12.5°	6276.4	6312.5	6449.7	6745.8	7157.5	7692.0	8331.2	9078.7	9916.5	9977.9	10472.7
15°	5778.0	5825.0	5944.1	6211.4	6670.0	7356.1	8183.1	9067.9	10097.1	10183.8	10819.3
17.5°	5684.1	5713.0	5763.6	5944.1	6345.0	7088.9	8049.5	9064.3	10270.4	10375.2	11140.7
20°	6070.5	6045.3	5994.7	5976.6	6196.9	6883.1	7952.0	9093.2	10436.6	10555.7	11480.2
22.5°	7038.4	7070.9	6774.7	6424.4	6352.2	6850.6	7937.6	9230.4	10700.2	10841.0	11859.4
25°	9093.2	8844.0	8381.7	7543.9	6912.0	7049.2	8100.1	9555.4	11007.1	11162.4	12202.5
27.5°	11364.6	11288.8	10570.2	9190.7	8013.4	7468.1	8389.0	9804.6	11108.2	11267.1	12397.5
30°	13596.4	13686.7	12863.3	11339.4	9613.2	8244.5	8659.8	9898.5	11198.5	11364.6	12646.6
32.5°	15665.7	15774.0	15051.7	13542.2	11498.3	9587.9	9125.7	10263.2	11577.7	11747.4	13061.9
35°	17294.3	17308.8	16763.5	15560.9	13556.7	11220.2	10133.2	10902.4	12090.5	12289.1	13502.5
37.5°	18789.4	18767.7	18128.5	17092.1	15272.0	12841.7	11400.8	11639.1	12675.5	12881.4	14138.1
40°	19898.1	19912.5	19706.7	18731.6	16871.8	14340.3	12404.7	12328.9	13657.8	13979.2	15062.6
42.5°	20638.4	20772.0	20873.1	20378.4	18883.3	16185.7	13946.7	13805.9	15362.3	15629.5	16369.9
45°	21237.8	21476.2	21981.8	21956.5	20815.3	18449.9	16062.9	15774.0	17778.3	18063.5	18034.7
47.5°	21674.8	21916.8	22754.6	23260.2	22631.8	20645.6	18724.4	18475.2	20663.7	20974.2	19872.8
50°	21898.7	22187.6	23256.5	24235.2	24051.0	22761.8	21757.9	21772.3	24148.5	24448.3	22003.4
52.5°	21375.1	21750.6	23523.8	25286.1	25643.6	24787.7	24599.9	25076.6	27250.6	27507.0	23928.2
55°	19703.1	20176.1	23159.0	26181.7	27488.9	27178.4	27828.4	28554.3	30641.6	30807.7	25903.6
57.5°	18645.0	19146.9	22082.9	26943.6	29706.3	30182.9	31212.2	31743.0	34140.9	34563.4	28171.5
60°	17753.0	18146.6	21198.1	27106.1	31959.7	33859.2	34859.5	35408.4	38460.0	38734.4	30666.9
62.5°	16268.7	16720.2	19703.1	25972.2	33093.6	36802.4	38875.3	38629.7	41800.4	41991.8	32198.0
65°	13881.7	13921.4	16669.6	23122.9	31923.6	38712.7	41695.7	40666.4	43396.6	43526.6	32078.9
67.5°	10360.7	10743.5	12823.6	18175.5	26965.3	37080.5	42609.3	40720.6	42389.0	42027.9	29532.9
70°	6673.6	6966.1	8692.3	12603.3	19443.0	30944.9	39579.5	37929.1	37203.2	36401.5	24173.8
72.5°	3080.4	3456.0	5164.1	7200.9	11530.8	22043.2	32129.4	30814.9	26777.5	24798.5	15365.9
75°	1343.4	1437.3	2549.6	3799.0	5406.1	11657.2	21183.7	19128.9	12094.1	11046.9	6150.0
77.5°	819.8	881.1	1336.2	2036.8	2123.4	4441.9	11411.6	8345.6	3737.7	3297.1	1668.4
80°	556.1	624.7	971.4	1065.3	725.9	1238.7	4283.0	2228.1	754.8	722.3	357.5
82.5°	270.8	343.1	718.6	595.9	314.2	397.2	1245.9	476.7	220.3	205.8	126.4
85°	39.7	68.6	404.5	390.0	140.8	93.9	220.3	119.2	75.8	72.2	57.8
87.5°	0.0	0.0	137.2	61.4	14.4	14.4	25.3	25.3	28.9	25.3	28.9
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°	9356.8	9356.8	9356.8	9356.8	9356.8	9356.8	9356.8	9356.8	9356.8	9356.8	9356.8
2.5°	9429.0	9447.1	9378.5	9280.9	9176.2	9071.5	8923.4	8789.8	8710.4	8757.3	8641.8
5°	9598.7	9584.3	9403.7	9107.6	8714.0	8240.9	7771.4	7370.6	7240.6	7045.6	7023.9
7.5°	9833.5	9793.7	9411.0	8732.0	7843.7	6955.3	6088.6	5514.4	5185.8	4907.7	4914.9
10°	10162.1	10046.5	9327.9	8071.2	6608.6	5268.8	4163.8	3405.4	3076.8	2972.1	2889.0
12.5°	10501.6	10277.7	9096.8	7179.2	5146.1	3600.4	2531.5	2069.3	1867.0	1802.0	1794.8
15°	10804.9	10451.0	8692.3	6106.6	3741.3	2300.4	1726.2	1574.5	1549.2	1552.8	1549.2
17.5°	11104.6	10588.2	8132.6	4969.1	2542.3	1650.3	1484.2	1448.1	1459.0	1473.4	1469.8
20°	11353.8	10617.1	7417.5	3791.8	1798.4	1448.1	1393.9	1386.7	1397.6	1408.4	1408.4
22.5°	11624.7	10638.8	6568.9	2625.4	1469.8	1347.0	1318.1	1318.1	1332.6	1347.0	1350.6
25°	11826.9	10519.6	5554.1	1885.1	1296.4	1249.5	1235.1	1238.7	1253.1	1260.3	1256.7
27.5°	11859.4	10183.8	4478.0	1444.5	1177.3	1130.3	1115.9	1130.3	1112.3	1123.1	1115.9
30°	11888.3	9757.6	3387.4	1217.0	1068.9	996.7	975.0	953.4	938.9	920.9	917.3
32.5°	11978.6	9255.7	2473.7	1094.2	967.8	888.4	837.8	776.4	729.5	715.0	711.4
35°	12018.3	8652.6	1816.5	996.7	877.5	790.9	700.6	613.9	545.3	520.0	538.1
37.5°	12170.0	8067.6	1408.4	924.5	798.1	689.8	574.2	465.9	400.9	386.4	393.6
40°	12480.5	7432.0	1180.9	863.1	729.5	595.9	455.0	350.3	307.0	292.5	288.9
42.5°	12978.9	6800.0	1050.9	805.3	660.9	502.0	357.5	274.5	238.3	227.5	227.5
45°	13585.6	6193.3	960.6	743.9	588.6	404.5	281.7	220.3	198.6	191.4	191.4
47.5°	14383.7	5662.5	884.8	682.5	509.2	321.4	227.5	191.4	177.0	180.6	184.2
50°	15192.6	5268.8	801.7	613.9	418.9	263.6	195.0	169.7	166.1	169.7	169.7
52.5°	15802.9	5037.7	689.8	520.0	328.6	220.3	173.3	158.9	155.3	148.1	148.1
55°	16626.3	4987.2	548.9	422.5	260.0	184.2	155.3	144.5	133.6	126.4	122.8
57.5°	17684.4	5044.9	422.5	328.6	202.2	151.7	137.2	119.2	104.7	90.3	90.3
60°	18341.6	4914.9	328.6	252.8	148.1	122.8	104.7	86.7	68.6	57.8	54.2
62.5°	18132.2	4366.0	260.0	187.8	104.7	90.3	68.6	57.8	39.7	28.9	25.3
65°	17052.4	3524.6	209.5	130.0	75.8	54.2	36.1	36.1	18.1	3.6	0.0
67.5°	14925.4	2610.9	166.1	86.7	43.3	25.3	18.1	10.8	0.0	0.0	0.0
70°	12148.3	1885.1	130.0	54.2	25.3	18.1	7.2	3.6	0.0	0.0	0.0
72.5°	7713.7	1079.8	101.1	32.5	18.1	7.2	0.0	0.0	0.0	0.0	0.0
75°	2982.9	422.5	68.6	21.7	7.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	845.0	198.6	39.7	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	220.3	86.7	21.7	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	104.7	36.1	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	61.4	14.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.9	3.6	0.0	0.0	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)