

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: P459547

Luminaire Tested: **GLAN-SA9D-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9D-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 52305 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

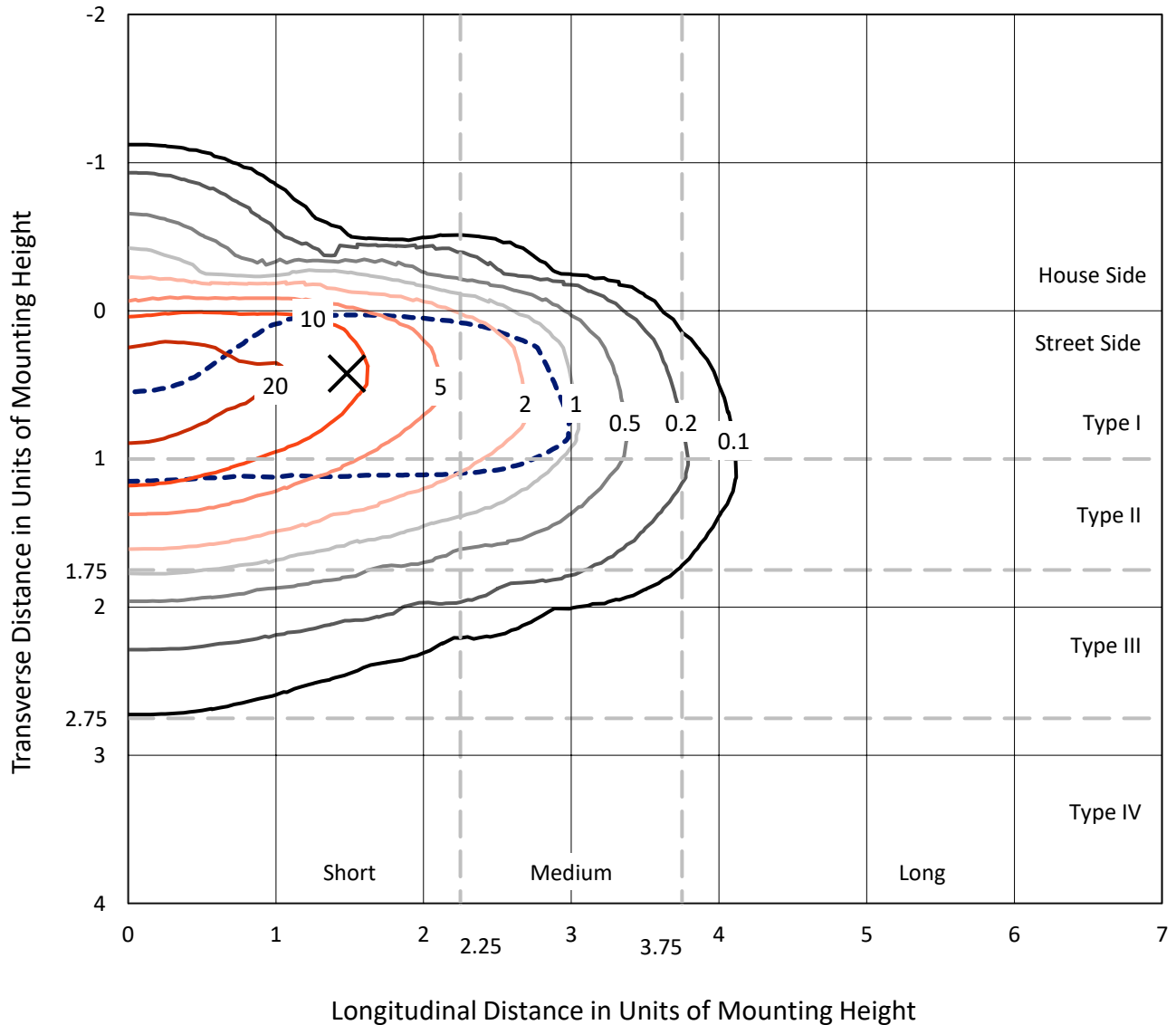
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

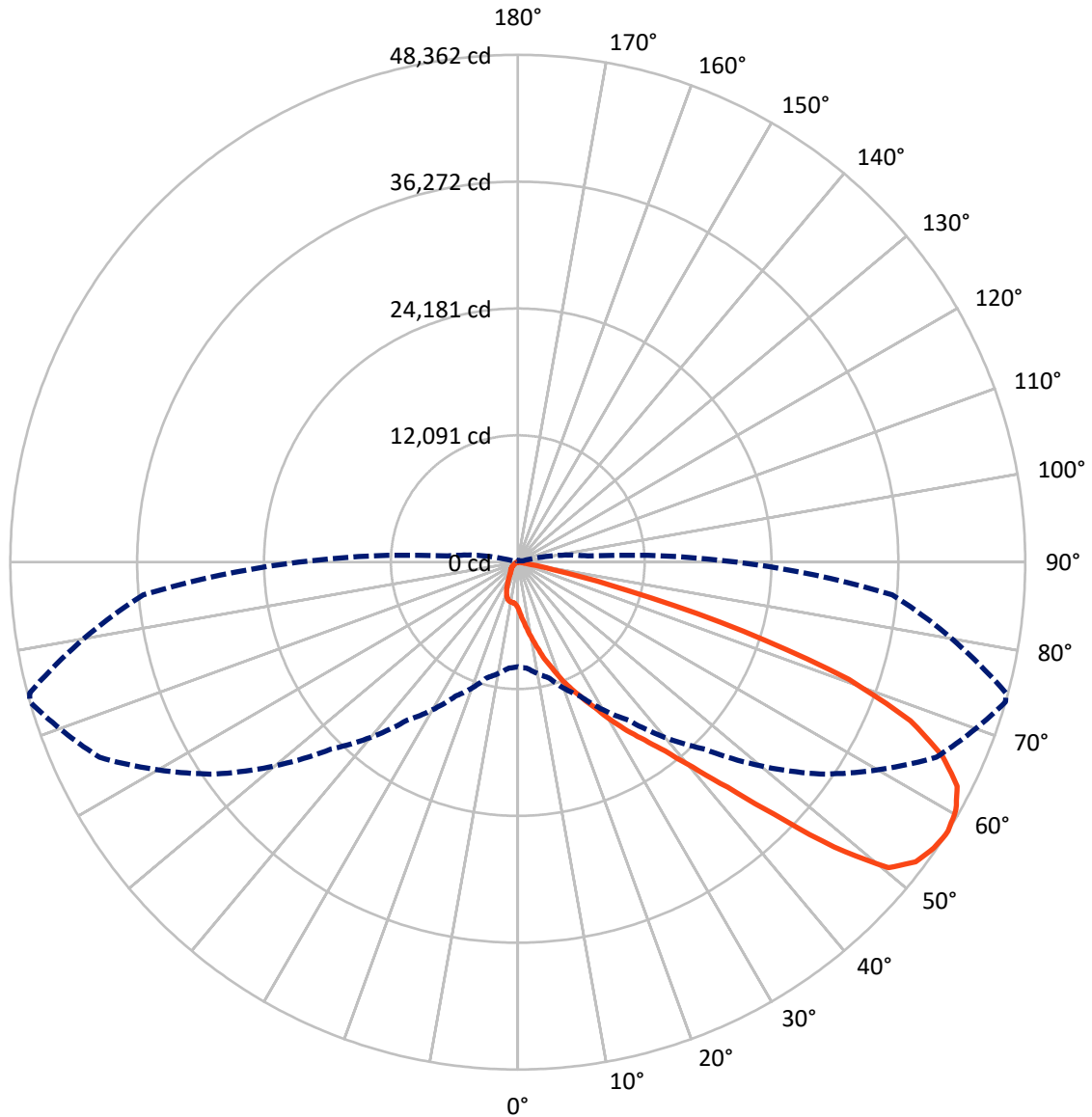
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3016.8	0.0	3016.8
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	49288.2	0.0	49288.2
	% Fixture	94.2	0.0	94.2
Total	Lumens	52305.0	0.0	52305.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.7	1.0
10°-20°	2084.1	4.0
20°-30°	4459.4	8.5
30°-40°	8196.3	15.7
40°-50°	12565.0	24.0
50°-60°	13292.1	25.4
60°-70°	8680.1	16.6
70°-80°	2371.7	4.5
80°-90°	127.7	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°	52305.0	100.0
0°-180°	52305.0	100.0

Coefficient of Utilization



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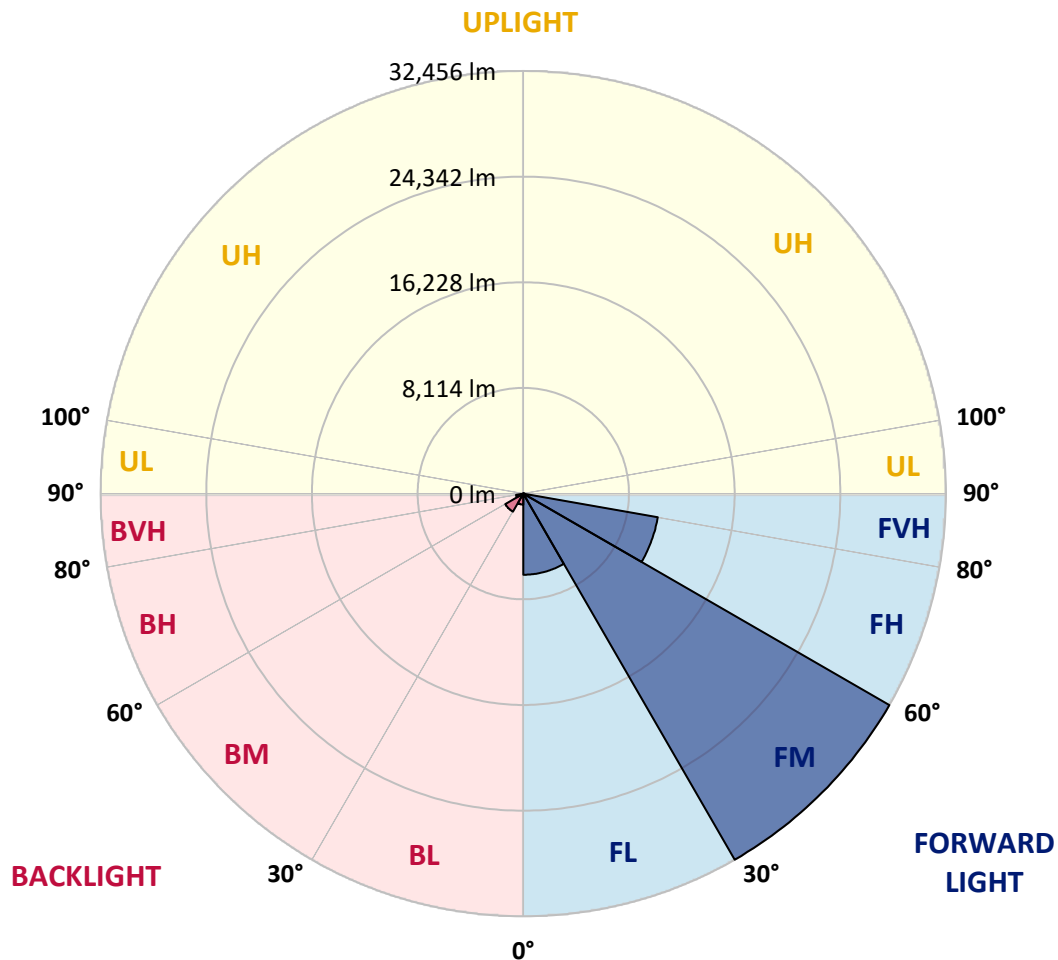
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6229.5	11.9			
FM	(30°-60°)	32456.2	62.1			
FH	(60°-80°)	10485.4	20.0			G4/12000
FVH	(80°-90°)	117.1	0.2			G2/225
BL	(0°-30°)	842.7	1.6	B2/1000		
BM	(30°-60°)	1597.2	3.1	B2/2500		
BH	(60°-80°)	566.4	1.1	B2/1000		G2/1000
BVH	(80°-90°)	10.5	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4380.5	4380.5	4380.5	4380.5	4380.5	4380.5	4380.5	4380.5	4380.5	4380.5	4380.5
2.5°	6410.0	6352.2	6236.7	6196.9	6027.2	5763.6	5532.5	5221.9	4976.3	4951.1	4654.9
5°	8584.0	8454.0	8399.8	8139.8	7731.7	7348.9	6691.7	6193.3	5619.1	5575.8	4979.9
7.5°	10678.5	10498.0	10443.8	10198.2	9721.6	9118.5	8266.2	7359.8	6449.7	6366.7	5416.9
10°	12195.3	12220.6	12123.0	11960.5	11574.1	10960.2	9909.3	8670.7	7374.2	7269.5	5908.0
12.5°	13282.3	13278.7	13296.7	13293.1	13087.3	12621.4	11516.4	10089.9	8392.6	8186.8	6471.4
15°	13990.1	14000.9	14055.1	14242.9	14264.5	13975.6	13054.8	11447.7	9573.5	9317.1	7081.7
17.5°	14705.1	14780.9	14867.6	15044.6	15203.5	15087.9	14437.9	12863.4	10642.4	10451.0	7735.3
20°	15886.0	15990.7	15940.2	16048.5	16131.6	16142.4	15640.4	14170.6	11938.9	11617.5	8482.9
22.5°	17774.7	17771.1	17641.1	17446.1	17283.6	17276.3	16821.3	15514.0	13116.1	12805.6	9234.0
25°	20161.7	20172.6	19919.8	19363.7	18959.2	18464.4	17940.8	16691.3	14376.5	13993.7	10024.9
27.5°	22899.1	22830.5	22447.7	21682.1	20880.4	20035.3	19280.6	18060.0	15712.7	15394.9	10931.3
30°	25358.4	25333.1	24885.3	23950.0	22895.5	22046.8	20952.6	19775.3	17442.5	17052.4	11946.1
32.5°	27647.9	27684.0	27062.9	26095.1	25076.7	24098.0	22942.4	21414.9	19139.8	18587.2	13051.1
35°	29435.5	29471.6	28828.8	28023.5	26976.2	26163.7	25062.2	23162.7	20815.4	20349.5	14322.3
37.5°	30388.9	30435.8	30063.9	29457.2	28803.5	28395.4	27369.8	25412.5	22852.1	22570.5	15824.6
40°	30569.4	30623.6	30461.1	30298.6	30262.5	30555.0	30255.3	28063.2	25676.2	25235.6	18063.6
42.5°	30027.7	30100.0	30172.2	30533.3	31270.0	32342.6	33386.2	31660.0	29312.7	28720.5	20800.9
45°	28604.9	28597.7	28883.0	29818.3	31468.6	33758.2	36658.0	36163.3	34267.4	33563.2	24668.6
47.5°	26170.9	26134.8	26752.3	28084.9	30656.1	34018.2	39326.8	41630.8	40590.7	39940.7	28825.2
50°	22462.1	22639.1	23610.5	25470.3	28637.4	33230.9	40150.1	45216.8	45780.1	45090.4	32183.7
52.5°	18117.8	18110.5	19634.5	22158.8	25647.3	31497.5	39576.0	45866.8	47466.6	46939.3	33837.6
55°	13408.7	13502.6	15087.9	17633.9	21765.1	28334.1	37701.7	45198.7	48109.4	47737.4	34928.2
57°	9974.3	10140.5	11411.6	14105.6	18385.0	25203.1	35206.3	44003.4	48362.2	48160.0	35834.7
57.5°	9309.9	9317.1	10555.8	13004.2	17395.5	24000.5	34491.3	43505.0	48355.0	48243.0	35982.7
60°	5731.1	5911.7	6767.5	8789.8	12733.4	18731.7	29699.1	40641.3	47979.4	48141.9	36614.7
62.5°	3430.7	3506.5	4062.7	5297.7	8208.4	13672.3	24303.9	36975.8	47000.7	47495.5	36571.4
65°	2206.5	2224.5	2477.3	3206.8	5131.6	9241.3	18728.1	32133.1	44469.2	45379.3	35141.3
67.5°	1704.5	1733.4	1834.5	2105.4	2975.7	5756.4	13246.2	26965.4	40374.0	41547.7	31674.5
70°	1513.1	1527.6	1563.7	1650.4	1968.1	3250.1	8240.9	21064.6	33480.1	33812.4	24787.8
72.5°	1235.1	1274.8	1386.7	1415.6	1560.1	2029.5	4586.3	14138.1	22494.6	22577.7	13867.3
75°	957.0	964.2	1130.3	1213.4	1314.5	1397.6	2047.6	7128.7	10804.9	10227.1	5344.7
77.5°	715.0	747.5	823.4	928.1	1072.5	1000.3	917.3	2686.8	3354.9	3293.5	1552.8
80°	458.6	476.7	574.2	697.0	834.2	653.6	516.4	787.3	736.7	758.4	372.0
82.5°	231.1	234.7	368.3	567.0	530.9	328.6	325.0	321.4	274.5	270.8	173.3
85°	25.3	54.2	238.3	325.0	238.3	108.3	151.7	148.1	144.5	148.1	101.1
87.5°	3.6	3.6	39.7	46.9	32.5	36.1	43.3	46.9	57.8	54.2	43.3
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°	4380.5	4380.5	4380.5	4380.5	4380.5	4380.5	4380.5	4380.5	4380.5	4380.5	4380.5
2.5°	4510.5	4366.0	4098.8	3842.4	3651.0	3528.2	3369.3	3311.5	3228.5	3217.6	3177.9
5°	4705.5	4431.0	3965.2	3596.8	3300.7	3076.8	2881.8	2719.3	2589.3	2560.4	2574.8
7.5°	4983.6	4575.5	3925.5	3423.5	3011.8	2629.0	2318.4	2127.0	1989.8	1939.3	1946.5
10°	5297.7	4766.9	3918.2	3239.3	2611.0	2141.5	1802.0	1632.3	1552.8	1524.0	1491.5
12.5°	5669.7	4987.2	3900.2	2954.0	2170.4	1708.1	1466.2	1365.1	1289.2	1267.6	1267.6
15°	6088.6	5221.9	3813.5	2600.1	1762.3	1412.0	1249.5	1170.1	1144.8	1123.1	1123.1
17.5°	6525.6	5453.0	3632.9	2163.2	1462.6	1209.8	1108.7	1061.7	1025.6	1000.3	1000.3
20°	7023.9	5680.5	3344.0	1776.7	1235.1	1079.8	1000.3	946.2	917.3	895.6	888.4
22.5°	7497.0	5864.7	2975.7	1459.0	1076.2	971.4	899.2	841.4	812.5	801.7	801.7
25°	7988.1	5976.7	2531.5	1206.2	982.3	881.2	801.7	754.8	729.5	722.3	718.6
27.5°	8464.8	6041.7	2141.5	1054.5	895.6	798.1	722.3	686.1	660.9	653.6	657.3
30°	9042.6	6052.5	1762.3	946.2	819.8	718.6	650.0	617.5	603.1	595.9	592.2
32.5°	9627.7	6038.1	1480.6	881.2	747.5	650.0	592.2	567.0	556.1	545.3	545.3
35°	10284.9	5962.2	1260.3	816.1	678.9	592.2	541.7	520.0	505.6	494.7	491.1
37.5°	11101.1	5922.5	1133.9	743.9	617.5	538.1	491.1	469.5	458.6	444.2	440.6
40°	12386.7	6099.4	1094.2	678.9	556.1	487.5	444.2	418.9	404.5	390.0	386.4
42.5°	13990.1	6410.0	1029.2	613.9	502.0	440.6	397.2	368.3	343.1	325.0	317.8
45°	16066.6	6818.1	928.1	545.3	455.0	390.0	350.3	314.2	281.7	267.2	263.6
47.5°	18244.2	7211.7	837.8	491.1	404.5	346.7	303.3	263.6	234.7	223.9	220.3
50°	19580.3	7291.2	780.0	429.7	353.9	299.7	256.4	220.3	202.2	191.4	191.4
52.5°	20190.6	7164.8	700.6	375.6	307.0	263.6	220.3	191.4	180.6	173.3	169.7
55°	20616.8	6969.8	595.9	325.0	263.6	223.9	195.0	173.3	158.9	151.7	148.1
57°	20865.9	6706.1	516.4	285.3	227.5	195.0	173.3	155.3	140.8	126.4	126.4
57.5°	20876.8	6605.0	494.7	281.7	216.7	187.8	169.7	151.7	133.6	119.2	115.6
60°	20555.4	5911.7	397.2	238.3	173.3	158.9	140.8	119.2	93.9	79.4	75.8
62.5°	19522.5	5030.5	328.6	202.2	140.8	122.8	101.1	90.3	65.0	46.9	46.9
65°	17958.9	4080.7	281.7	162.5	115.6	90.3	68.6	65.0	39.7	21.7	18.1
67.5°	15698.2	3177.9	238.3	133.6	97.5	65.0	46.9	43.3	21.7	7.2	0.0
70°	11960.5	2166.8	198.6	108.3	72.2	46.9	32.5	25.3	14.4	3.6	0.0
72.5°	6893.9	1191.7	166.1	83.1	54.2	36.1	25.3	14.4	14.4	0.0	0.0
75°	2462.9	512.8	126.4	61.4	43.3	28.9	18.1	7.2	10.8	3.6	0.0
77.5°	783.6	274.5	83.1	46.9	36.1	21.7	14.4	7.2	7.2	3.6	0.0
80°	231.1	144.5	50.6	39.7	25.3	18.1	10.8	3.6	7.2	3.6	0.0
82.5°	126.4	72.2	39.7	28.9	25.3	14.4	10.8	3.6	3.6	3.6	0.0
85°	65.0	43.3	32.5	28.9	25.3	14.4	10.8	3.6	0.0	3.6	3.6
87.5°	36.1	32.5	32.5	28.9	25.3	18.1	10.8	3.6	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)