

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: P459520

Luminaire Tested: **GLAN-SA9C-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9C-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43590 lumens
Efficiency: N/A
Efficacy: 90.6 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

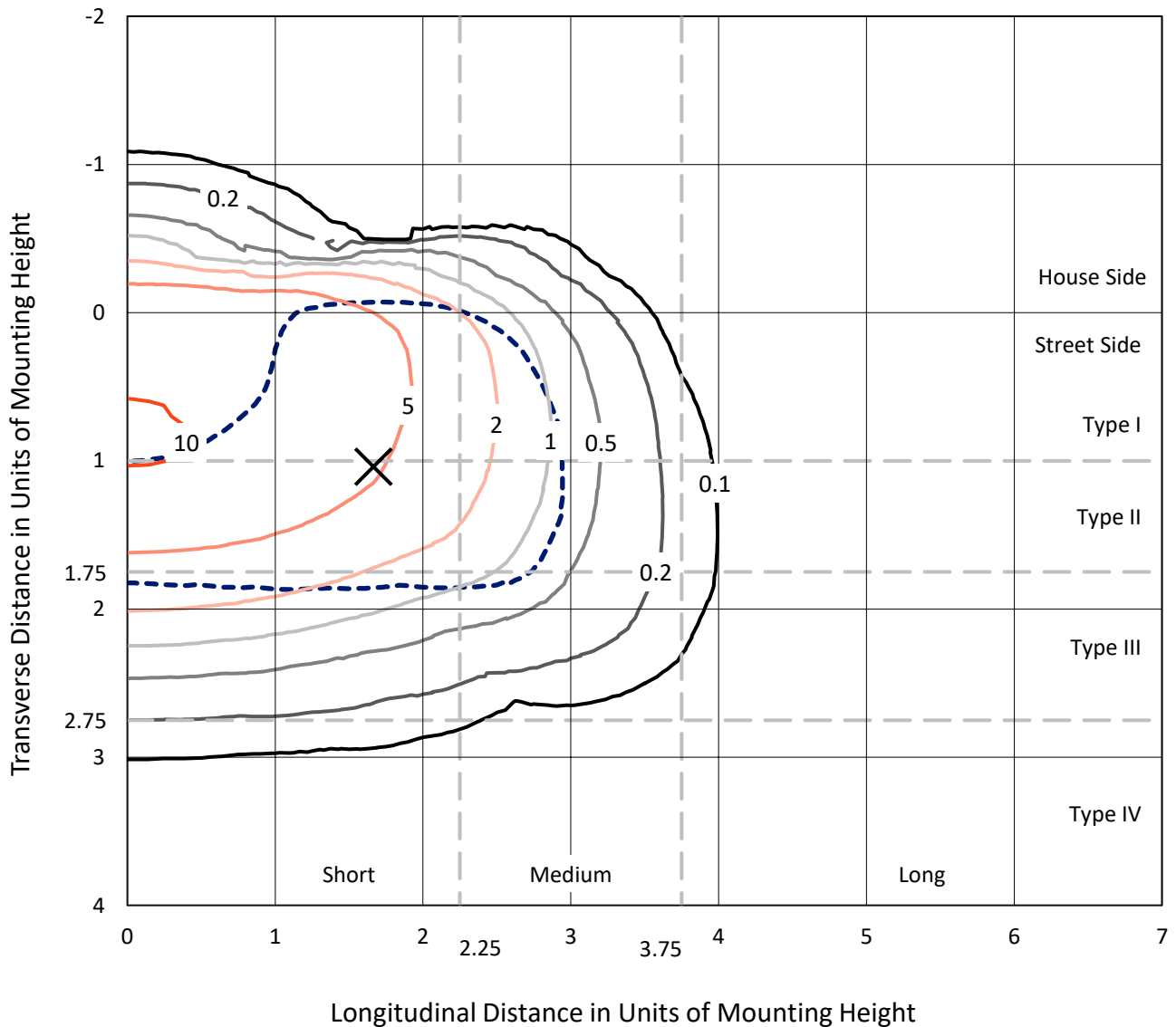
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459520
 CATALOG NUMBER: GLAN-SA9C-735-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

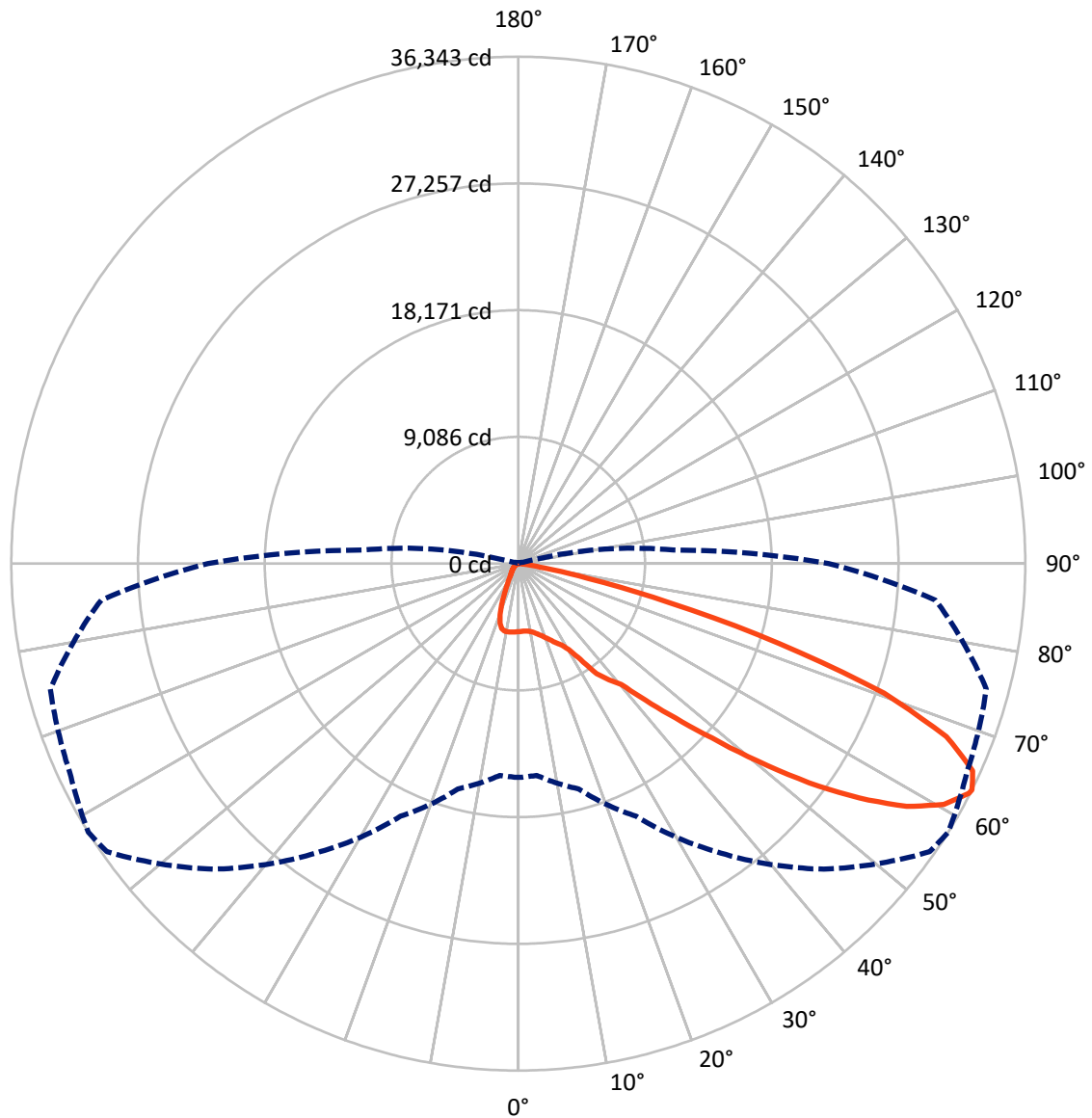
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Short - N/A

REPORT NUMBER: P459520
CATALOG NUMBER: GLAN-SA9C-735-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P459520

CATALOG NUMBER: GLAN-SA9C-735-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4513.5	0.0	4513.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	39076.5	0.0	39076.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	43590.0	0.0	43590.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.8	1.0
10°-20°	1244.3	2.9
20°-30°	2159.5	5.0
30°-40°	3968.3	9.1
40°-50°	7470.3	17.1
50°-60°	12777.3	29.3
60°-70°	12234.3	28.1
70°-80°	3119.8	7.2
80°-90°	159.5	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°	43590.0	100.0
0°-180°	43590.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459520

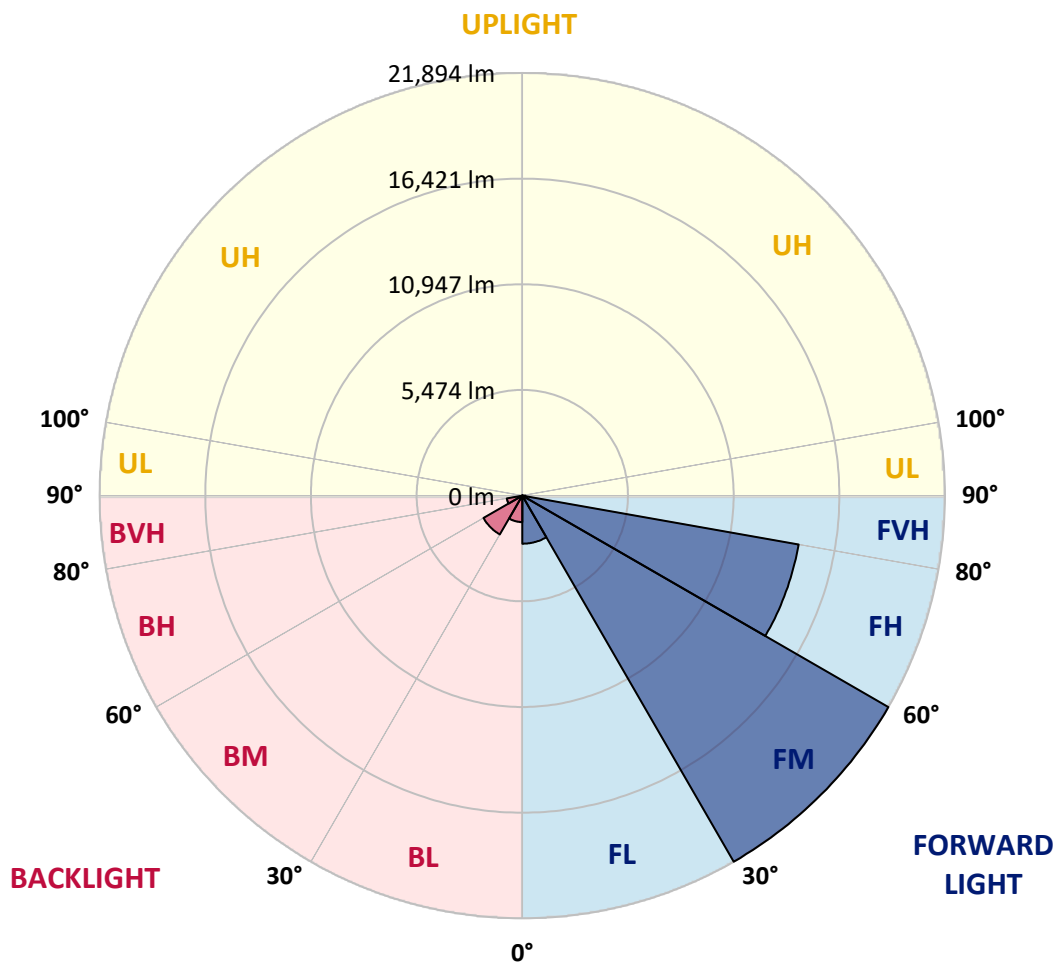
CATALOG NUMBER: GLAN-SA9C-735-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2491.8	5.7			
FM	(30°-60°)	21894.4	50.2			
FH	(60°-80°)	14537.0	33.3			G5
FVH	(80°-90°)	153.3	0.4			G2/225
BL	(0°-30°)	1368.8	3.1	B3/2500		
BM	(30°-60°)	2321.5	5.3	B2/2500		
BH	(60°-80°)	817.0	1.9	B2/1000		G2/1000
BVH	(80°-90°)	6.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P459520

CATALOG NUMBER: GLAN-SA9C-735-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1
2.5°	4758.6	4775.1	4791.5	4798.0	4821.0	4844.0	4860.4	4857.1	4883.4	4896.5	4896.5
5°	4568.3	4568.3	4611.0	4650.3	4716.0	4781.6	4844.0	4857.1	4906.3	4952.3	4968.7
7.5°	4407.5	4417.3	4450.2	4522.4	4611.0	4725.8	4850.5	4880.1	4965.4	5067.1	5109.8
10°	4332.0	4338.6	4381.2	4456.7	4568.3	4725.8	4899.8	4955.6	5086.8	5247.6	5306.7
12.5°	4315.6	4325.4	4368.1	4453.4	4581.4	4771.8	5008.1	5067.1	5257.5	5464.2	5552.8
15°	4345.1	4351.7	4394.4	4486.3	4627.4	4853.8	5152.5	5234.5	5461.0	5700.5	5815.4
17.5°	4450.2	4443.6	4473.1	4548.6	4706.1	4955.6	5326.4	5424.9	5690.7	6018.9	6094.3
20°	4896.5	4853.8	4827.6	4761.9	4824.3	5100.0	5536.4	5680.8	6009.0	6343.8	6396.3
22.5°	5858.1	5762.9	5575.8	5319.8	5122.9	5296.9	5789.1	5956.5	6379.9	6708.0	6708.0
25°	7082.2	6960.7	6773.7	6215.8	5733.3	5621.8	6074.7	6284.7	6783.5	7115.0	7006.7
27.5°	8614.8	8519.6	8155.3	7505.5	6767.1	6189.5	6406.1	6599.7	7141.2	7541.6	7315.2
30°	9861.9	9815.9	9517.3	8936.4	8122.5	7279.1	7023.1	7151.1	7617.1	8079.8	7846.8
32.5°	10915.3	10915.3	10610.1	10068.6	9307.2	8559.0	8070.0	8161.9	8608.2	9143.2	8710.0
35°	12073.8	12034.4	11788.3	11273.1	10419.8	9760.1	9559.9	9684.7	10088.3	10485.4	9418.8
37.5°	13291.4	13278.3	13022.3	12523.4	11827.7	10997.4	10528.1	10560.9	10767.7	11010.5	10249.1
40°	14614.0	14633.6	14298.9	13990.4	13334.0	12484.1	11584.8	11378.1	11571.7	12257.6	11781.7
42.5°	16176.1	16130.2	15985.8	15565.7	15037.3	14528.6	13448.9	13373.4	13544.1	14279.2	13764.0
45°	17990.9	18056.6	17807.2	17574.2	17219.7	16796.4	15893.9	15762.6	15949.7	17091.7	16359.9
47.5°	19809.1	19746.7	19907.5	19864.9	20055.2	19740.2	18942.7	18673.6	19123.2	20206.2	19129.7
50°	21194.0	21262.9	21597.7	22086.7	22903.8	23081.1	22316.4	22224.5	22424.7	23120.4	21607.5
52.5°	22093.2	22323.0	22848.0	24105.0	25578.5	26723.9	26143.0	26093.8	26011.7	26198.8	23977.0
55°	22680.7	22913.7	23599.6	25450.5	27987.4	29848.2	29877.7	29667.7	29126.2	28991.6	26192.2
57.5°	22319.7	22365.6	23343.6	25818.1	29323.1	32076.5	33041.4	32831.3	31830.4	31321.7	28148.2
60°	20061.8	20156.9	21518.9	24426.6	28742.2	32805.1	35138.5	35043.3	33947.2	33372.8	29671.0
62.5°	16061.2	16336.9	17738.2	20980.7	26041.3	31577.7	35988.5	36257.6	35404.3	34613.4	30150.1
63°	15326.1	15237.5	16717.6	19976.4	25325.8	30970.6	36001.6	36342.9	35469.9	34731.5	30018.8
65°	11345.3	11611.1	12572.7	15752.7	21075.9	28144.9	35191.0	35794.8	35227.1	34209.7	28565.0
67.5°	6370.0	6356.9	7420.2	10308.2	14751.8	22076.8	31820.5	33097.2	32979.0	30698.2	23678.3
70°	3117.7	3167.0	3603.4	5342.8	8555.7	15230.9	26441.6	27820.0	27862.7	24111.5	16373.0
72.5°	1411.2	1434.2	1745.9	2602.5	4397.6	8109.4	18220.7	19536.7	19293.8	15365.5	9041.4
75°	745.0	794.2	961.6	1309.4	2120.1	3344.2	9911.1	11184.4	10675.8	7019.8	3327.8
77.5°	551.3	567.8	653.1	833.6	1135.5	1302.9	4276.2	5086.8	4765.2	2540.1	1102.7
80°	403.7	416.8	485.7	590.7	715.4	662.9	1611.4	1847.7	1657.3	863.1	338.0
82.5°	246.1	249.4	354.4	439.8	449.6	370.8	531.7	571.0	597.3	485.7	183.8
85°	88.6	111.6	239.6	318.3	265.8	187.1	223.2	246.1	269.1	308.5	108.3
87.5°	9.8	13.1	114.9	154.2	75.5	68.9	82.0	91.9	98.5	114.9	52.5
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°	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1
2.5°	4909.6	4922.7	4912.9	4896.5	4893.2	4883.4	4863.7	4863.7	4863.7	4870.2	4863.7
5°	4981.8	4991.7	4968.7	4935.9	4899.8	4853.8	4804.6	4775.1	4771.8	4765.2	4748.8
7.5°	5119.6	5132.8	5080.3	5001.5	4903.0	4791.5	4686.4	4588.0	4542.0	4505.9	4505.9
10°	5319.8	5333.0	5227.9	5086.8	4889.9	4663.5	4414.1	4187.6	4010.4	3928.3	3908.6
12.5°	5559.4	5566.0	5392.0	5145.9	4821.0	4384.5	3852.9	3357.3	3012.7	2855.2	2838.8
15°	5822.0	5776.0	5546.3	5168.9	4624.1	3810.2	2891.3	2284.1	1926.4	1821.4	1860.8
17.5°	6087.8	6002.5	5664.4	5132.8	4181.0	2891.3	1942.8	1558.9	1447.3	1417.7	1417.7
20°	6337.2	6219.1	5749.8	4975.2	3413.1	1992.1	1440.7	1348.8	1329.1	1309.4	1312.7
22.5°	6586.6	6406.1	5825.2	4624.1	2543.4	1424.3	1289.8	1260.2	1234.0	1207.7	1204.4
25°	6829.5	6580.1	5854.8	3974.3	1732.8	1224.1	1178.2	1138.8	1086.3	1056.7	1050.2
27.5°	7082.2	6790.1	5835.1	3153.8	1263.5	1096.1	1050.2	994.4	932.0	879.5	879.5
30°	7567.9	7190.5	5766.2	2267.7	1063.3	964.9	905.8	817.2	748.3	695.7	692.5
32.5°	8230.8	7712.3	5529.9	1595.0	945.2	850.0	761.4	662.9	590.7	551.3	551.3
35°	8821.5	8237.4	5086.8	1174.9	850.0	738.4	630.1	534.9	479.1	452.9	443.0
37.5°	9720.8	9005.3	4476.4	955.0	758.1	640.0	528.4	439.8	393.8	374.1	374.1
40°	11069.6	9943.9	3728.1	836.9	669.5	544.8	439.8	370.8	334.7	311.8	311.8
42.5°	12743.3	11092.6	2970.0	751.5	587.4	469.3	367.6	315.1	282.2	265.8	262.5
45°	14850.2	12303.6	2287.4	672.8	521.8	400.4	311.8	265.8	233.0	223.2	226.4
47.5°	17049.1	13370.1	1772.2	603.9	452.9	338.0	265.8	229.7	206.8	193.6	193.6
50°	18926.3	14105.3	1345.5	525.1	400.4	285.5	233.0	206.8	187.1	180.5	177.2
52.5°	20495.0	14318.6	1030.5	456.2	351.2	246.1	206.8	187.1	170.7	160.8	160.8
55°	21830.7	14131.5	807.3	384.0	295.4	213.3	183.8	167.4	147.7	137.8	134.6
57.5°	22611.8	13531.0	617.0	318.3	239.6	177.2	160.8	141.1	118.1	101.7	101.7
60°	23005.6	12658.0	472.6	262.5	183.8	141.1	131.3	105.0	82.0	68.9	65.6
62.5°	22533.0	11499.5	357.7	206.8	137.8	105.0	88.6	75.5	52.5	39.4	39.4
63°	22240.9	11164.8	344.6	196.9	128.0	98.5	82.0	68.9	45.9	36.1	32.8
65°	20275.1	9704.3	282.2	157.5	101.7	68.9	55.8	49.2	32.8	16.4	13.1
67.5°	16100.6	7423.5	223.2	118.1	72.2	49.2	32.8	29.5	9.8	0.0	0.0
70°	10885.8	4794.7	173.9	85.3	49.2	29.5	16.4	13.1	3.3	0.0	0.0
72.5°	5677.6	2458.1	134.6	62.4	29.5	19.7	9.8	3.3	0.0	0.0	0.0
75°	2008.5	836.9	98.5	39.4	19.7	9.8	3.3	0.0	0.0	0.0	0.0
77.5°	607.1	311.8	62.4	29.5	13.1	6.6	0.0	0.0	0.0	0.0	0.0
80°	213.3	114.9	36.1	19.7	9.8	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	105.0	55.8	23.0	16.4	9.8	3.3	0.0	0.0	0.0	0.0	0.0
85°	59.1	36.1	19.7	16.4	9.8	6.6	0.0	0.0	0.0	0.0	0.0
87.5°	42.7	26.3	19.7	16.4	13.1	6.6	3.3	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)