

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: P322303

Luminaire Tested: **GAN-SA9D-750-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-750-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1200mA 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: 50548 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

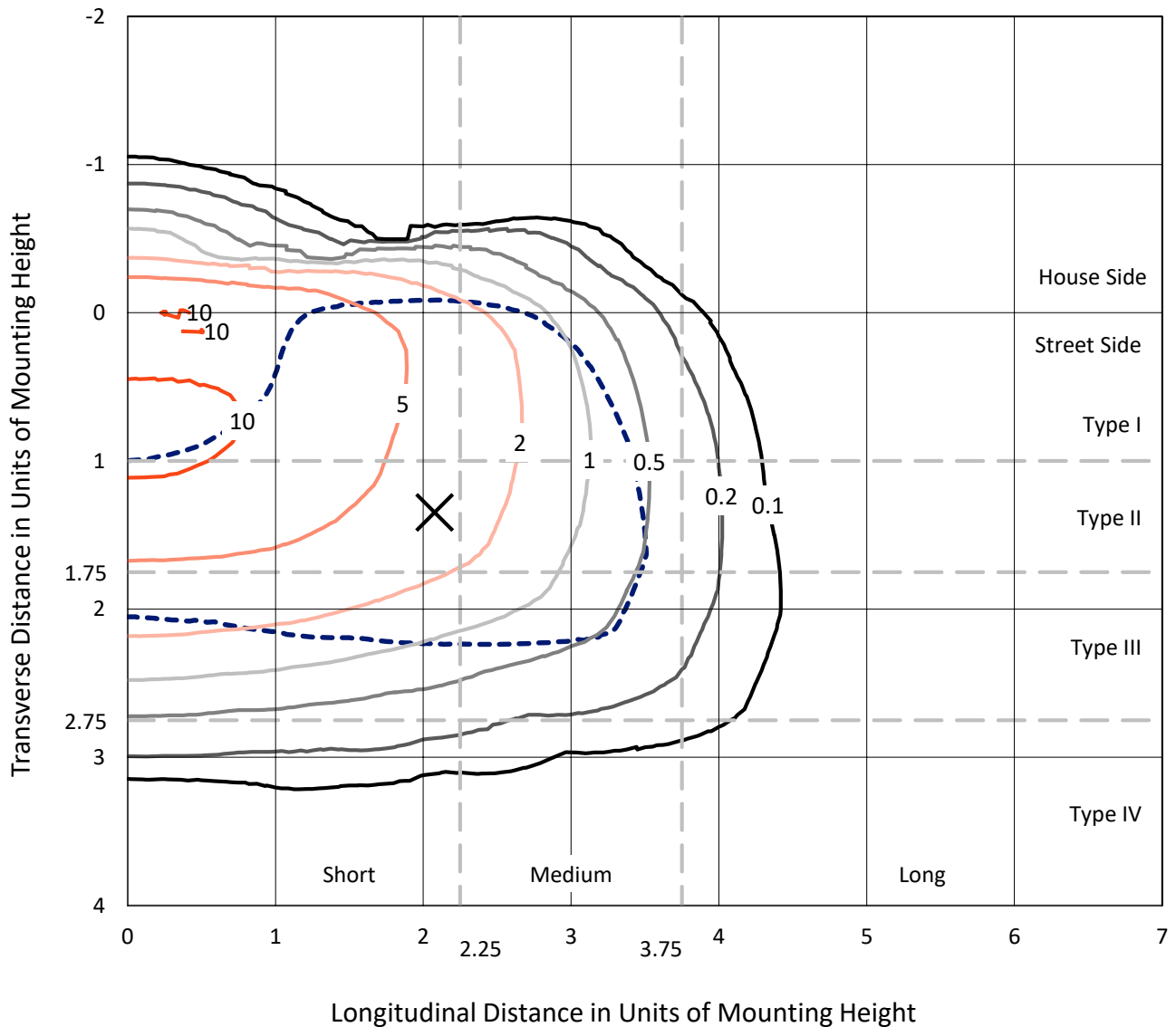
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

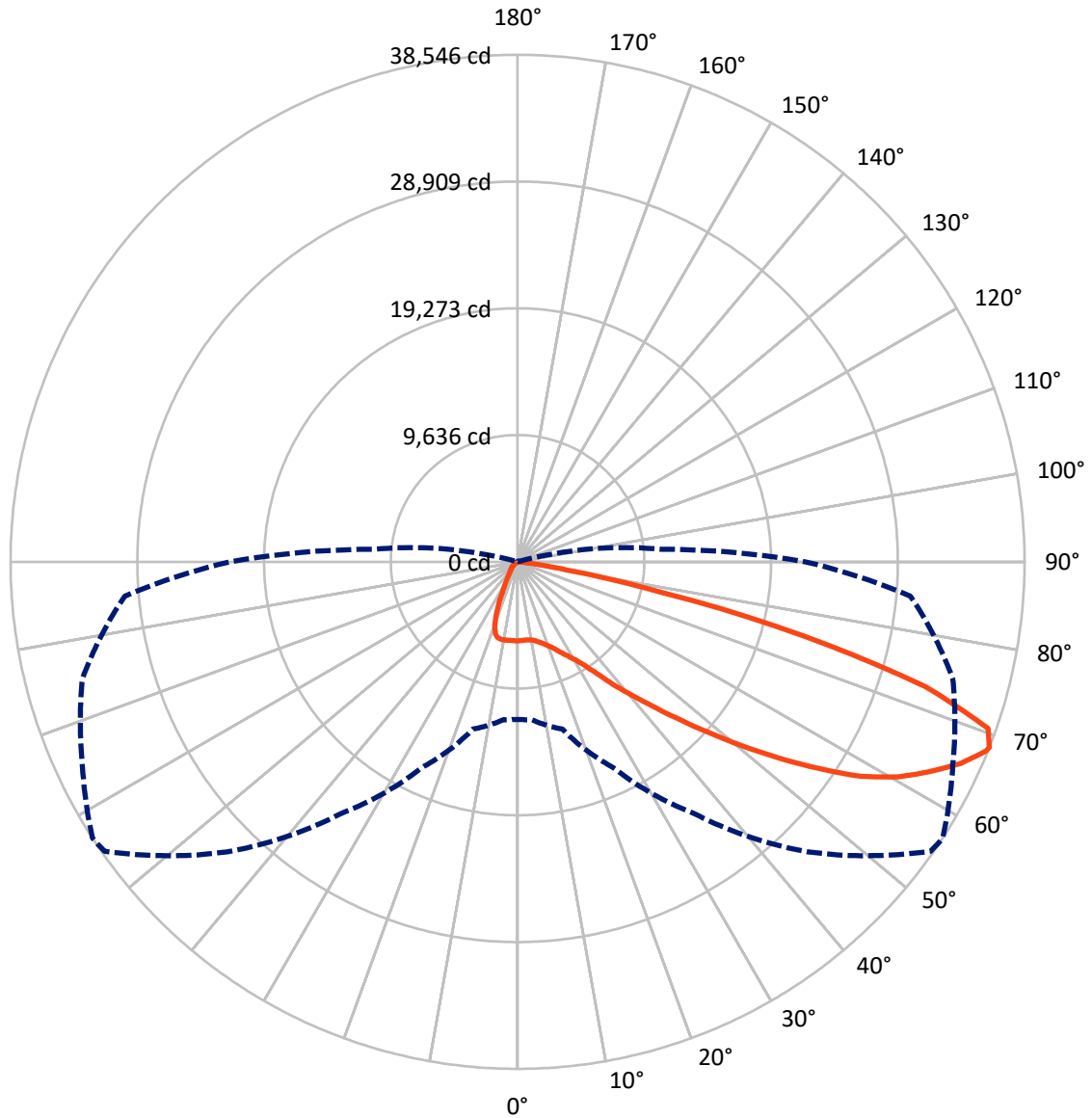
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Short - N/A

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CATALOG NUMBER: GAN-SA9D-750-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5542.9	0.0	5542.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	45005.1	0.0	45005.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	50548.0	0.0	50548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.1	1.1
10°-20°	1557.6	3.1
20°-30°	2687.1	5.3
30°-40°	4637.8	9.2
40°-50°	7933.1	15.7
50°-60°	12692.2	25.1
60°-70°	14664.5	29.0
70°-80°	5603.5	11.1
80°-90°	210.1	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°	50548.0	100.0
0°-180°	50548.0	100.0

Coefficient of Utilization



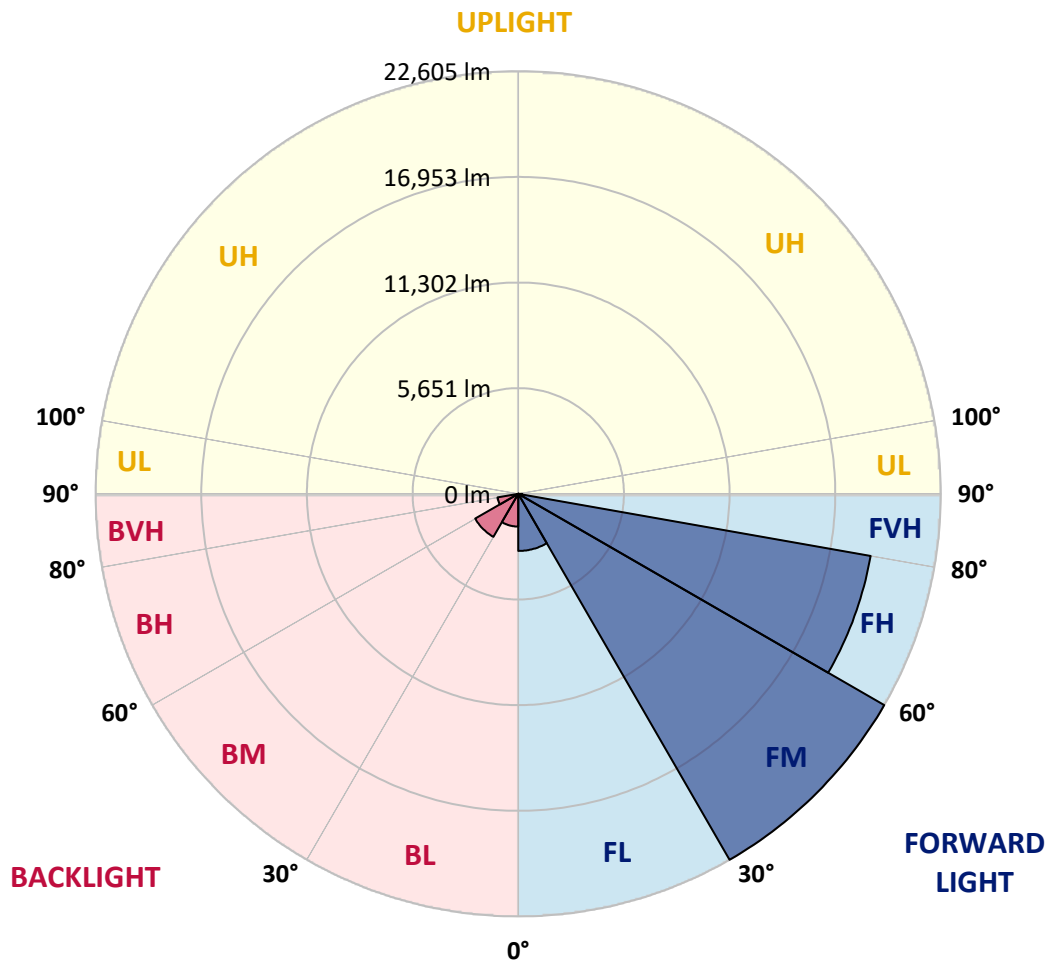
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3055.1	6.0			
FM (30°-60°)	22604.6	44.7			
FH (60°-80°)	19139.1	37.9			G5
FVH (80°-90°)	206.2	0.4			G2/225
BL (0°-30°)	1751.7	3.5	B3/2500		
BM (30°-60°)	2658.5	5.3	B3/5000		
BH (60°-80°)	1128.9	2.2	B3/2500		G3/2500
BVH (80°-90°)	3.8	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°	57°	65°	75°	85°
0°	6006.4	6006.4	6006.4	6006.4	6006.4	6006.4	6006.4	6006.4	6006.4	6006.4	6006.4
2.5°	5865.4	5891.7	5910.8	5922.8	5937.1	5968.2	5977.8	5992.1	5999.3	5999.3	6016.0
5°	5633.6	5662.3	5702.9	5736.3	5803.3	5889.3	5951.5	5975.4	6018.4	6056.6	6078.1
7.5°	5418.5	5451.9	5499.7	5578.6	5693.3	5832.0	5961.0	5994.5	6078.1	6159.4	6200.0
10°	5279.8	5306.1	5368.3	5480.6	5631.2	5824.8	6006.4	6047.1	6190.5	6326.7	6403.2
12.5°	5232.0	5255.9	5320.5	5447.1	5633.6	5860.6	6111.6	6171.4	6381.7	6580.1	6687.6
15°	5301.3	5306.1	5375.4	5494.9	5679.0	5949.1	6286.1	6357.8	6623.1	6881.2	7015.1
17.5°	5569.0	5547.5	5583.4	5636.0	5781.8	6066.2	6470.1	6577.7	6931.4	7235.0	7361.6
20°	6238.3	6238.3	6157.0	6013.6	6016.0	6247.8	6718.7	6840.6	7273.2	7624.6	7739.3
22.5°	7383.2	7361.6	7199.1	6847.8	6525.1	6560.9	7022.2	7180.0	7684.3	8059.6	8097.8
25°	8759.9	8733.6	8482.6	7987.9	7428.6	7067.7	7433.4	7615.0	8174.3	8506.5	8427.7
27.5°	10217.9	10196.4	9947.8	9333.5	8537.6	7875.5	7923.3	8095.4	8673.8	9001.3	8750.3
30°	11630.4	11637.6	11391.4	10760.4	9859.3	8905.7	8544.8	8645.2	9159.0	9491.3	9132.7
32.5°	12973.7	12983.3	12770.5	12065.5	11224.1	10103.1	9405.2	9378.9	9723.1	10050.6	9639.5
35°	14171.2	14195.1	14049.3	13501.9	12610.4	11436.8	10521.4	10459.3	10523.8	10894.3	10416.3
37.5°	15325.6	15340.0	15230.0	14768.7	14023.0	12902.0	11931.6	11843.2	11704.5	11989.0	11441.6
40°	16590.0	16554.1	16427.5	16009.2	15368.6	14520.1	13447.0	13294.0	13052.6	13305.9	12789.7
42.5°	17765.9	17725.3	17746.8	17273.6	16733.4	16183.7	15213.3	14950.4	14809.3	15100.9	14443.6
45°	19235.9	19214.4	19286.1	18875.0	18437.6	18038.4	17237.7	16950.9	16888.8	17230.6	16444.2
47.5°	20686.7	20739.3	20961.6	20787.1	20610.2	20258.9	19381.7	19252.6	19290.9	19704.4	18554.7
50°	21896.1	21958.3	22567.8	22768.5	23024.3	22818.7	21939.1	21860.3	22010.8	22383.7	20825.3
52.5°	22770.9	22897.6	23655.3	24580.3	25512.4	25651.0	24773.9	24702.2	24905.3	24962.7	22579.7
55°	23378.0	23490.3	24348.4	26040.6	27938.4	28535.9	27991.0	27713.7	27675.5	27109.0	24424.9
57.5°	23485.6	23473.6	24706.9	26984.7	29841.0	31382.6	31038.4	30765.9	29982.0	29092.8	26540.2
60°	22878.5	22947.8	24379.5	27312.2	31036.0	33536.1	33562.4	33208.7	31987.3	31021.7	28590.9
62.5°	21009.4	21291.4	22737.5	26454.1	31021.7	34403.8	35412.4	35142.3	33681.9	32601.6	30670.3
65°	17978.7	18079.1	19458.2	23514.2	28925.5	34040.4	37078.3	36977.9	35209.2	34136.1	31738.7
67.5°	13129.1	12911.6	14360.0	18516.5	24489.4	31922.8	38273.4	38400.1	36387.6	34451.6	30601.0
68°	11981.8	12046.3	13174.5	17280.8	23327.8	31174.7	38352.3	38545.9	36504.7	34246.0	29979.6
70°	7141.8	7266.0	8272.3	11898.1	17746.8	26941.7	37501.4	37943.6	35806.8	32125.9	25930.7
72.5°	1823.7	1971.9	2923.1	5325.2	10136.6	18982.5	31657.5	32405.6	31088.6	26062.1	17505.4
75°	750.5	788.7	1044.5	1754.4	3776.4	8551.9	20866.0	22467.4	21551.9	15602.9	7911.4
77.5°	518.7	545.0	671.6	972.8	1634.9	2899.2	10229.8	11386.7	10258.5	5325.2	1725.7
80°	372.9	394.4	480.4	647.7	939.3	1034.9	3334.3	3855.3	3061.8	1168.8	427.8
82.5°	222.3	239.0	358.5	461.3	571.2	494.8	829.4	941.7	886.7	580.8	191.2
85°	109.9	129.1	241.4	329.8	308.3	207.9	253.4	282.0	349.0	353.7	102.8
87.5°	7.2	14.3	141.0	198.4	86.0	47.8	74.1	90.8	124.3	174.5	43.0
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°	6006.4	6006.4	6006.4	6006.4	6006.4	6006.4	6006.4	6006.4	6006.4	6006.4	6006.4
2.5°	6023.2	6025.6	6008.8	6001.7	6006.4	5977.8	5965.8	5970.6	5970.6	5977.8	5965.8
5°	6082.9	6082.9	6054.2	6016.0	5994.5	5939.5	5903.7	5894.1	5886.9	5882.1	5872.6
7.5°	6212.0	6197.6	6147.5	6063.8	5992.1	5872.6	5781.8	5734.0	5710.1	5700.5	5693.3
10°	6419.9	6393.6	6310.0	6154.6	5989.7	5777.0	5578.6	5437.6	5320.5	5272.7	5244.0
12.5°	6699.6	6661.3	6520.3	6262.2	5973.0	5581.0	5150.8	4737.3	4352.5	4194.7	4115.8
15°	7022.2	6967.3	6745.0	6353.0	5875.0	5138.8	4204.3	3480.1	2947.0	2746.3	2660.2
17.5°	7349.7	7278.0	6941.0	6410.4	5581.0	4223.4	2949.4	2227.6	1871.5	1775.9	1742.4
20°	7679.5	7574.4	7110.7	6367.3	4916.5	3045.0	1945.6	1627.7	1524.9	1496.2	1486.7
22.5°	7992.6	7830.1	7263.7	6200.0	3893.5	2043.6	1539.3	1438.9	1405.4	1388.7	1383.9
25°	8265.1	8038.1	7397.5	5683.8	2755.8	1544.0	1386.3	1352.8	1309.8	1278.7	1281.1
27.5°	8520.9	8246.0	7478.8	4832.9	1838.0	1319.4	1283.5	1238.1	1159.2	1113.8	1113.8
30°	8829.2	8523.3	7538.5	3719.1	1352.8	1166.4	1137.7	1068.4	960.8	901.1	901.1
32.5°	9292.9	8943.9	7500.3	2610.0	1121.0	1025.4	958.4	862.8	745.7	688.4	686.0
35°	10002.8	9594.0	7227.8	1711.3	989.5	891.5	784.0	666.9	564.1	516.3	513.9
37.5°	10958.8	10464.1	6615.9	1223.8	886.7	767.2	638.2	509.1	432.6	401.5	399.2
40°	12199.3	11475.1	5741.1	991.9	791.1	647.7	492.4	394.4	341.8	317.9	320.3
42.5°	13688.4	12557.8	4691.9	855.7	697.9	533.0	384.8	310.7	277.3	260.5	255.7
45°	15342.3	13626.2	3592.4	762.5	604.7	430.2	301.2	246.2	219.9	210.3	210.3
47.5°	17161.2	14665.9	2629.2	681.2	504.3	332.2	241.4	200.8	179.3	172.1	169.7
50°	18812.8	15387.8	1895.4	595.1	413.5	262.9	196.0	167.3	153.0	143.4	143.4
52.5°	20189.6	15614.8	1395.8	501.9	334.6	210.3	162.5	143.4	129.1	121.9	121.9
55°	21401.4	15521.6	1037.3	413.5	270.1	172.1	138.6	121.9	109.9	102.8	102.8
57.5°	22563.0	15220.4	774.4	337.0	217.5	138.6	117.1	102.8	90.8	86.0	86.0
60°	23511.9	14718.5	576.0	272.5	174.5	112.3	98.0	83.7	74.1	66.9	66.9
62.5°	24281.5	14164.0	423.1	224.7	138.6	88.4	76.5	69.3	55.0	47.8	47.8
65°	24286.3	13243.8	317.9	186.4	107.6	69.3	57.4	55.0	35.9	28.7	26.3
67.5°	22529.5	11417.7	243.8	160.1	83.7	52.6	43.0	45.4	19.1	12.0	9.6
68°	21891.3	10954.0	229.5	157.7	78.9	50.2	40.6	45.4	16.7	9.6	7.2
70°	18456.7	8714.5	184.0	153.0	69.3	38.2	33.5	45.4	14.3	7.2	4.8
72.5°	11804.9	5057.5	136.2	121.9	52.6	28.7	21.5	40.6	14.3	4.8	2.4
75°	5024.1	1567.9	93.2	86.0	31.1	21.5	14.3	26.3	9.6	2.4	0.0
77.5°	1058.8	353.7	55.0	52.6	21.5	14.3	9.6	7.2	2.4	0.0	0.0
80°	272.5	102.8	28.7	26.3	12.0	7.2	4.8	0.0	0.0	0.0	0.0
82.5°	86.0	40.6	16.7	12.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.0	23.9	9.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.9	7.2	2.4	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)