

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: P321612

Luminaire Tested: **GAN-SA8C-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA 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: 43598 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

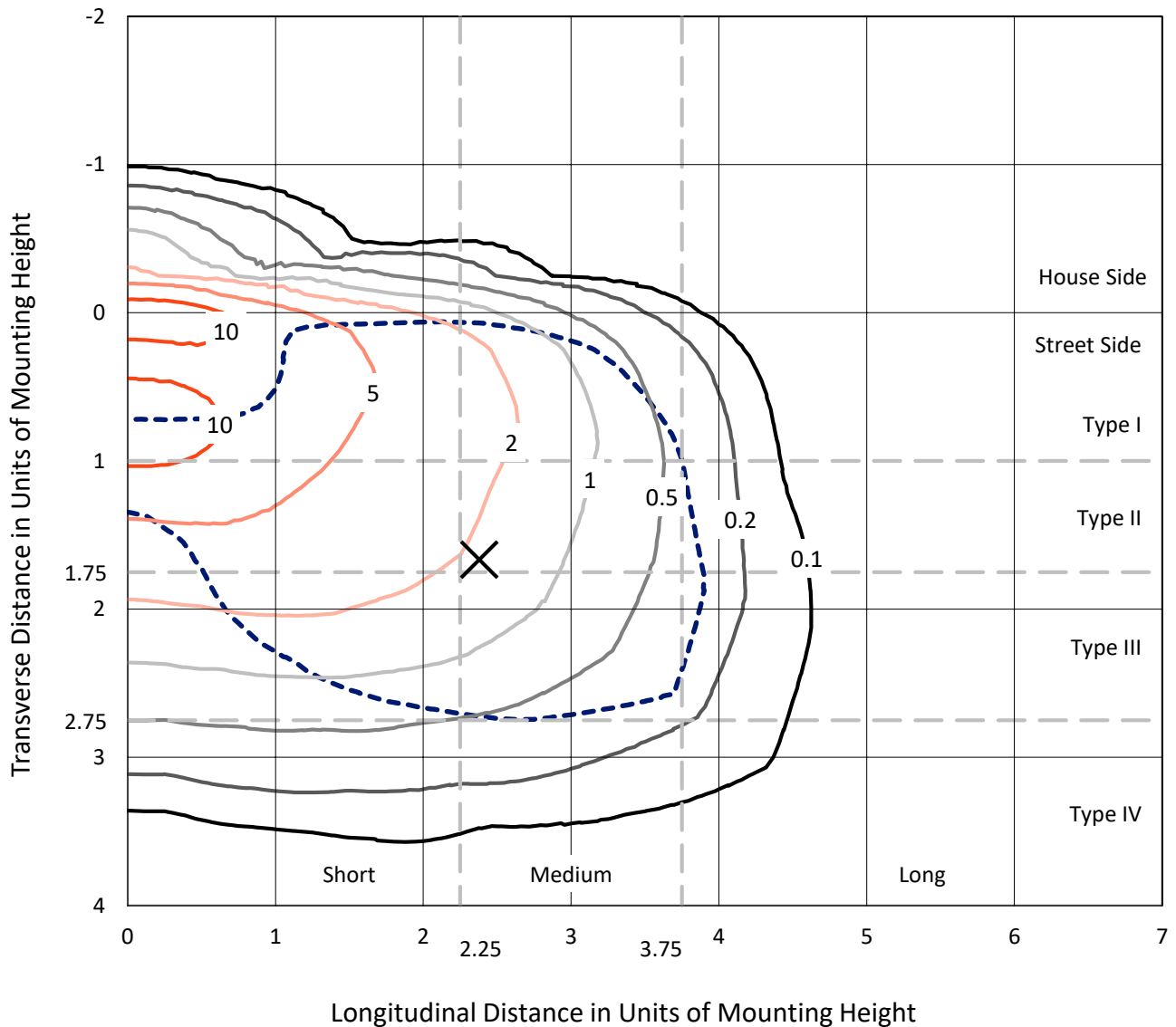
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

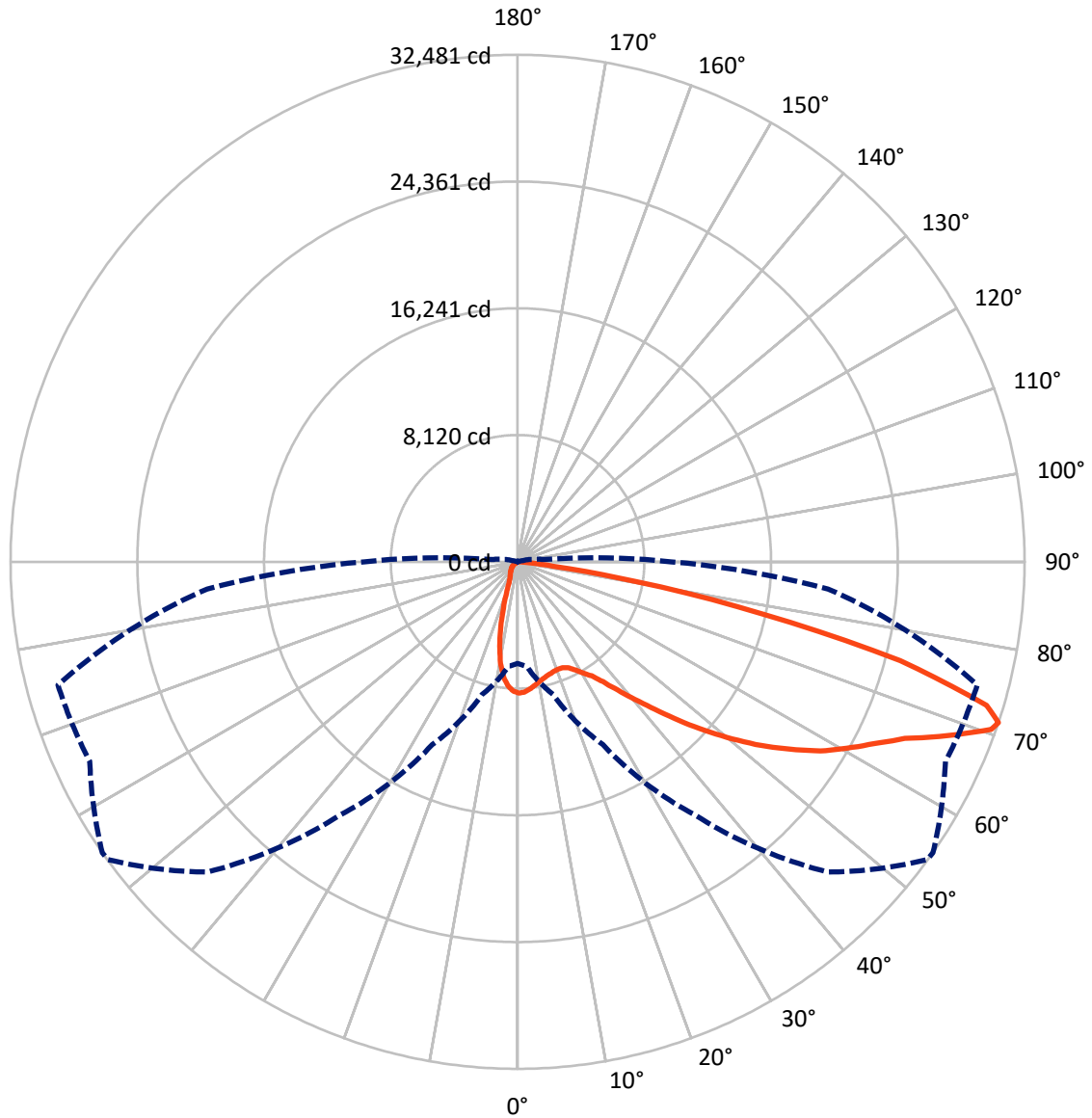
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Medium - N/A

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CATALOG NUMBER: GAN-SA8C-740-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3451.8	0.0	3451.8
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	40146.2	0.0	40146.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	43598.0	0.0	43598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.9	1.6
10°-20°	1618.4	3.7
20°-30°	2600.9	6.0
30°-40°	4419.1	10.1
40°-50°	6858.9	15.7
50°-60°	9221.7	21.2
60°-70°	11281.1	25.9
70°-80°	6595.8	15.1
80°-90°	285.1	0.7
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°	43598.0	100.0
0°-180°	43598.0	100.0

Coefficient of Utilization

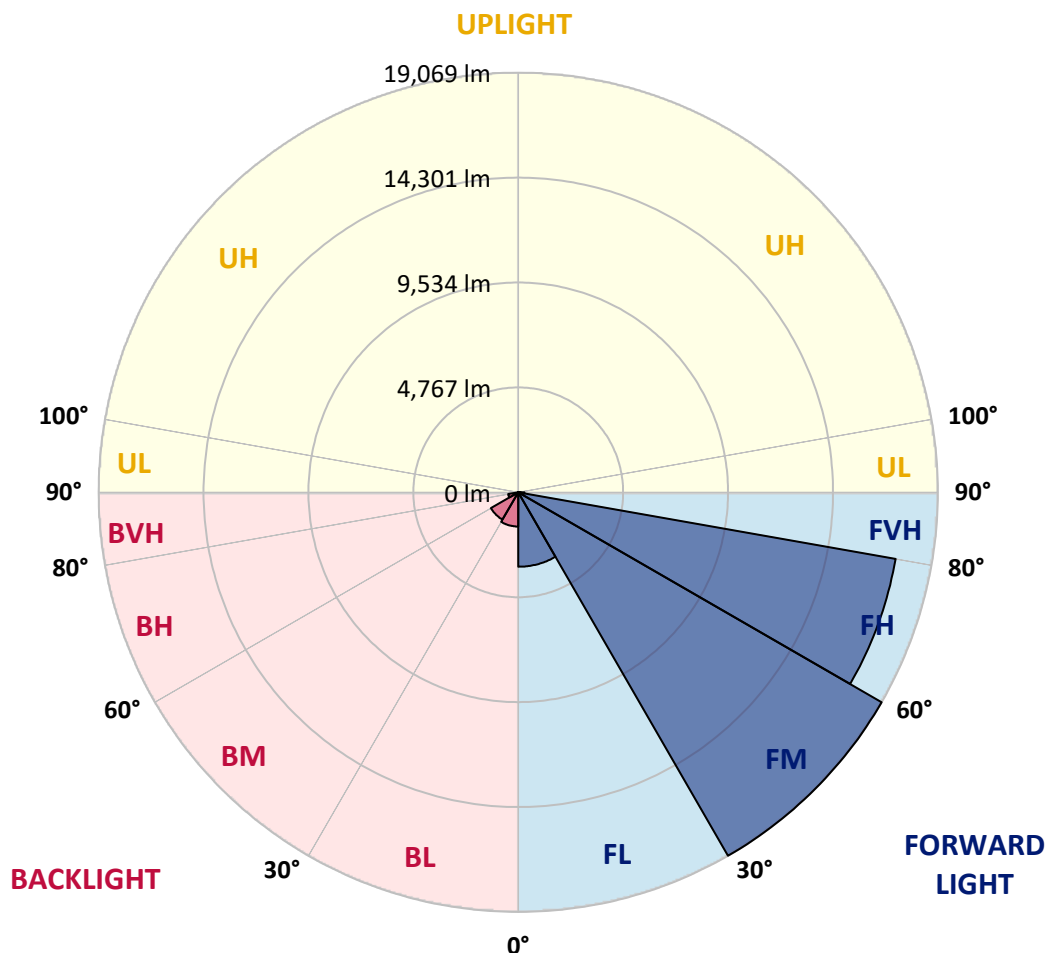


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3382.6	7.8			
FM (30°-60°)	19068.5	43.7			
FH (60°-80°)	17414.5	39.9			G5
FVH (80°-90°)	280.6	0.6			G3/500
BL (0°-30°)	1553.7	3.6	B3/2500		
BM (30°-60°)	1431.2	3.3	B2/2500		
BH (60°-80°)	462.5	1.1	B1/500		G1/500
BVH (80°-90°)	4.5	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0
2.5°	8161.4	8171.2	8206.4	8222.1	8259.3	8321.9	8353.2	8355.2	8406.1	8425.6	8441.3
5°	7583.9	7642.6	7701.3	7764.0	7877.5	8028.3	8177.0	8190.7	8355.2	8476.5	8541.1
7.5°	7086.6	7139.5	7210.0	7309.8	7470.3	7707.2	7955.8	7985.2	8296.4	8572.5	8717.3
10°	6575.7	6618.8	6720.6	6867.4	7088.6	7405.7	7740.5	7789.4	8243.6	8701.7	8956.2
12.5°	6029.5	6055.0	6178.3	6389.7	6714.7	7118.0	7558.4	7623.0	8210.3	8850.5	9238.1
15°	5614.5	5626.2	5743.7	5962.9	6334.9	6859.5	7417.5	7495.8	8218.1	9028.6	9545.4
17.5°	5508.8	5514.7	5577.3	5728.0	6056.9	6628.5	7305.9	7401.8	8241.6	9202.8	9854.7
20°	5937.5	5896.4	5831.8	5808.3	5949.2	6489.6	7239.3	7347.0	8273.0	9357.5	10132.7
22.5°	7114.0	6992.7	6724.5	6366.2	6148.9	6499.3	7256.9	7364.6	8372.8	9547.4	10453.8
25°	8860.2	8691.9	8235.8	7531.0	6853.7	6781.2	7403.8	7513.4	8566.6	9774.5	10761.1
27.5°	10847.2	10680.8	10122.9	9116.7	7961.7	7339.2	7740.5	7842.3	8854.4	9976.1	10996.0
30°	12750.1	12703.1	12045.3	10902.1	9355.5	8243.6	8175.1	8261.2	9067.8	10097.5	11182.0
32.5°	14363.1	14288.8	13760.2	12648.3	10951.0	9330.1	8686.0	8711.5	9228.3	10254.1	11424.7
35°	15858.8	15766.8	15302.8	14251.6	12587.6	10657.4	9473.0	9435.8	9578.7	10569.3	11777.1
37.5°	17164.5	17248.7	16733.8	15733.5	14055.8	12037.5	10534.0	10422.4	10126.8	11082.2	12288.1
40°	18256.9	18256.9	17988.7	17154.7	15641.5	13464.6	11734.0	11587.2	10951.0	11873.0	12936.0
42.5°	18650.4	18734.5	18834.4	18362.6	17060.8	14948.5	13071.1	12918.4	12111.9	12994.8	13754.3
45°	18673.9	18807.0	19317.9	19316.0	18343.0	16422.6	14578.5	14506.1	13599.7	14435.6	14768.4
47.5°	18343.0	18509.4	19351.2	19828.9	19359.0	17794.9	16226.8	16136.8	15347.8	16201.4	15829.4
50°	17832.1	18016.1	18994.9	20030.5	20050.1	18989.0	17963.2	17828.2	17272.2	18219.7	16925.7
52.5°	16917.9	17274.1	18675.8	20077.5	20504.2	20020.7	19615.5	19556.7	19425.6	20163.6	17798.8
55°	14962.2	15357.6	17875.1	20093.1	20925.1	20934.9	21164.0	21179.6	21443.9	21980.3	18448.7
57.5°	14038.2	14261.4	16477.4	20167.5	21549.6	21972.5	22741.8	22863.2	23272.3	23705.0	19190.7
60°	13456.8	13721.0	15788.3	20065.7	22530.4	23333.0	24204.2	24245.3	24683.8	25484.5	20194.9
62.5°	12992.8	13253.2	15353.7	19674.2	23632.5	24969.6	25633.2	25637.2	25966.0	27604.6	21336.2
65°	11847.6	12066.8	14474.7	19233.7	24360.8	26588.6	27293.3	27267.9	27536.1	29840.2	22661.6
67.5°	10191.4	10359.8	12679.6	17563.9	24086.7	28060.7	29799.1	29714.9	29389.9	31772.4	23182.3
70°	7879.5	7940.2	9993.7	14637.2	21518.3	28626.5	32220.7	32177.6	30527.3	31425.9	21273.6
71°	6513.0	6712.7	8807.4	12918.4	19797.5	28103.8	32455.6	32481.0	30241.5	30482.3	19960.0
72.5°	3782.1	3952.5	6383.8	9921.3	16808.2	25923.0	31237.9	31422.0	28906.4	27725.9	17049.0
75°	810.5	867.2	2366.8	4802.1	9245.9	18168.8	24656.4	25312.2	23560.1	18861.8	10275.6
77.5°	563.8	608.8	1014.1	2178.8	3055.9	8977.7	15316.5	16056.5	14075.4	7088.6	3288.8
80°	446.3	497.2	790.9	1076.7	826.1	2895.3	7174.7	7626.9	4694.4	1581.8	554.0
82.5°	248.6	295.6	616.7	581.4	317.1	550.1	2008.5	2270.9	939.7	319.1	131.2
85°	72.4	88.1	397.4	422.8	135.1	105.7	342.6	424.8	178.1	84.2	58.7
87.5°	0.0	0.0	191.8	162.5	39.2	15.7	31.3	35.2	35.2	35.2	39.2
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°	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0
2.5°	8441.3	8455.0	8406.1	8341.5	8273.0	8188.8	8100.7	8032.2	8030.2	7996.9	7963.6
5°	8545.1	8537.2	8402.2	8196.6	7953.9	7701.3	7460.5	7188.4	7098.4	6986.8	6949.6
7.5°	8736.9	8682.1	8396.3	7946.0	7413.6	6885.0	6338.8	5788.7	5553.8	5342.4	5305.2
10°	8977.7	8873.9	8359.1	7570.2	6593.3	5618.4	4794.2	4046.4	3717.5	3465.0	3453.3
12.5°	9228.3	9069.7	8255.3	7002.5	5518.6	4148.2	3198.8	2462.7	2188.6	2012.4	2028.1
15°	9490.6	9253.7	8032.2	6237.0	4295.0	2815.1	1965.5	1532.8	1423.2	1378.2	1389.9
17.5°	9758.8	9381.0	7720.9	5315.0	3087.2	1816.7	1360.6	1239.2	1239.2	1249.0	1252.9
20°	9991.8	9449.5	7262.8	4281.3	2092.7	1323.4	1190.2	1172.6	1182.4	1198.1	1200.0
22.5°	10222.8	9453.4	6665.7	3234.0	1464.3	1158.9	1133.5	1125.6	1131.5	1149.1	1151.1
25°	10410.7	9406.4	5917.9	2300.2	1168.7	1092.4	1080.6	1076.7	1080.6	1102.1	1102.1
27.5°	10487.0	9236.1	5005.7	1617.0	1047.3	1018.0	1014.1	1018.0	1023.8	1039.5	1041.5
30°	10494.9	8938.5	4011.2	1170.7	949.5	918.1	926.0	939.7	933.8	929.9	933.8
32.5°	10514.4	8594.0	3042.2	963.2	867.2	818.3	808.5	808.5	785.0	771.3	763.5
35°	10579.0	8188.8	2206.3	865.3	783.1	726.3	689.1	646.0	601.0	577.5	571.6
37.5°	10680.8	7764.0	1579.8	800.7	708.7	644.1	573.6	497.2	432.6	415.0	415.0
40°	10866.8	7325.5	1168.7	749.8	649.9	569.7	464.0	364.1	305.4	295.6	295.6
42.5°	11160.5	6863.5	931.8	704.7	599.0	493.3	354.3	264.3	221.2	215.3	213.4
45°	11465.9	6354.5	814.4	661.7	544.2	405.2	262.3	195.8	170.3	164.4	164.4
47.5°	11771.2	5812.2	757.6	620.6	491.4	315.2	195.8	154.7	142.9	142.9	144.9
50°	12029.7	5246.5	716.5	575.5	422.8	238.8	154.7	131.2	127.2	135.1	137.0
52.5°	12094.3	4690.5	665.6	518.8	338.7	182.1	127.2	115.5	115.5	115.5	115.5
55°	12055.1	4259.8	599.0	448.3	250.6	144.9	109.6	101.8	99.8	99.8	99.8
57.5°	12188.2	4005.3	479.6	348.5	180.1	117.5	95.9	90.1	86.1	84.2	84.2
60°	12456.4	3838.9	342.6	250.6	135.1	97.9	82.2	76.3	70.5	66.6	66.6
62.5°	12812.7	3694.1	254.5	186.0	103.8	78.3	68.5	62.6	54.8	50.9	50.9
65°	13086.8	3435.6	193.8	139.0	78.3	62.6	52.9	50.9	39.2	35.2	33.3
67.5°	12667.8	2867.9	156.6	101.8	58.7	48.9	41.1	39.2	23.5	19.6	19.6
70°	10864.9	1996.8	125.3	74.4	43.1	39.2	33.3	25.4	17.6	15.7	15.7
71°	9852.8	1667.9	113.5	62.6	37.2	37.2	31.3	21.5	15.7	13.7	13.7
72.5°	8184.9	1184.4	95.9	48.9	33.3	39.2	33.3	19.6	15.7	13.7	11.7
75°	4751.2	495.3	66.6	33.3	25.4	47.0	43.1	17.6	11.7	9.8	9.8
77.5°	1429.1	182.1	37.2	21.5	19.6	41.1	48.9	15.7	5.9	2.0	2.0
80°	260.4	78.3	23.5	13.7	13.7	25.4	37.2	7.8	0.0	0.0	0.0
82.5°	92.0	39.2	13.7	7.8	5.9	11.7	17.6	0.0	0.0	0.0	0.0
85°	52.9	27.4	7.8	3.9	0.0	2.0	3.9	0.0	0.0	0.0	0.0
87.5°	35.2	7.8	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)