

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: P268686

Luminaire Tested: **GAN-AF-07-LED-U-SL4-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SL4-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38128.6 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

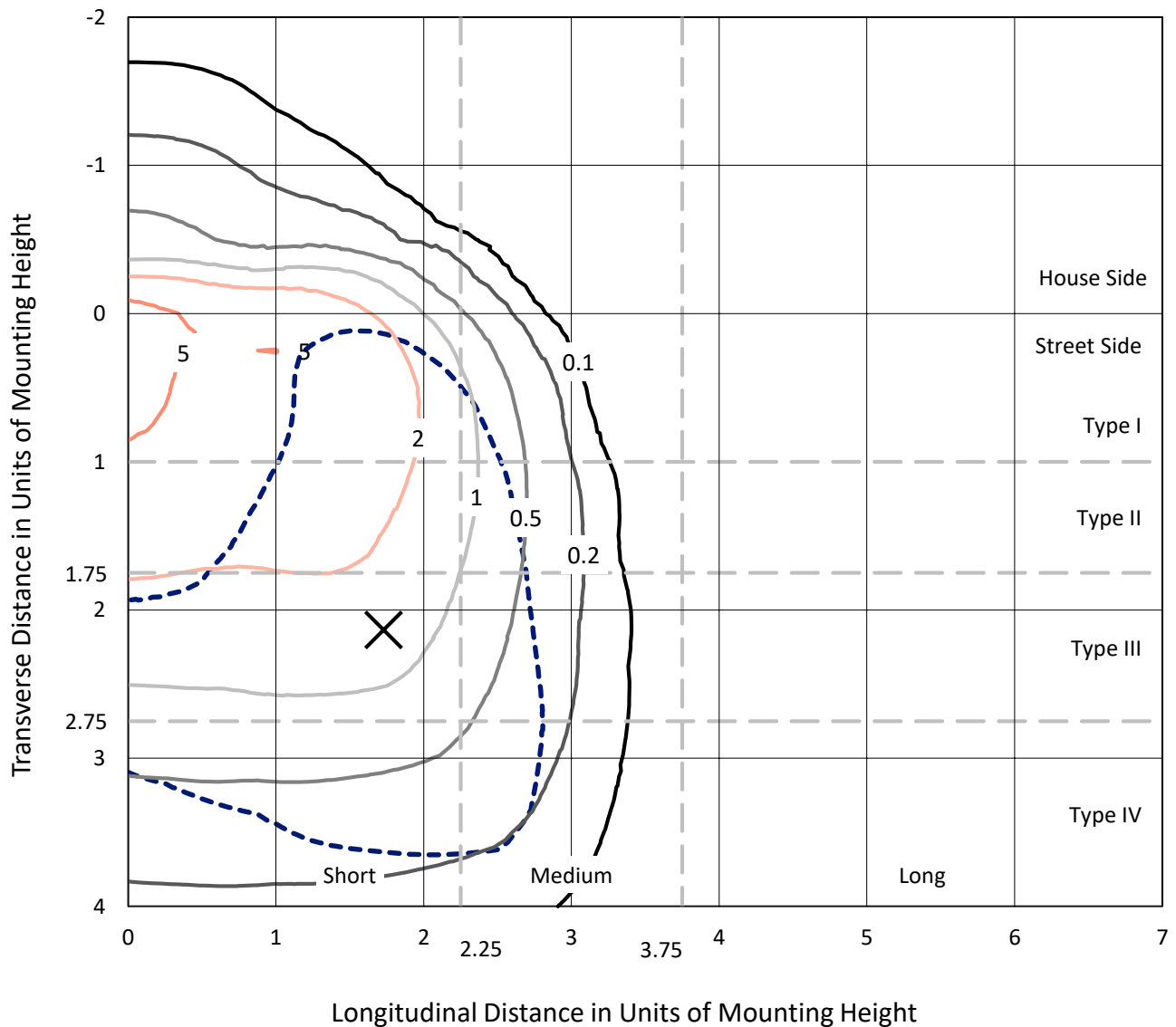
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

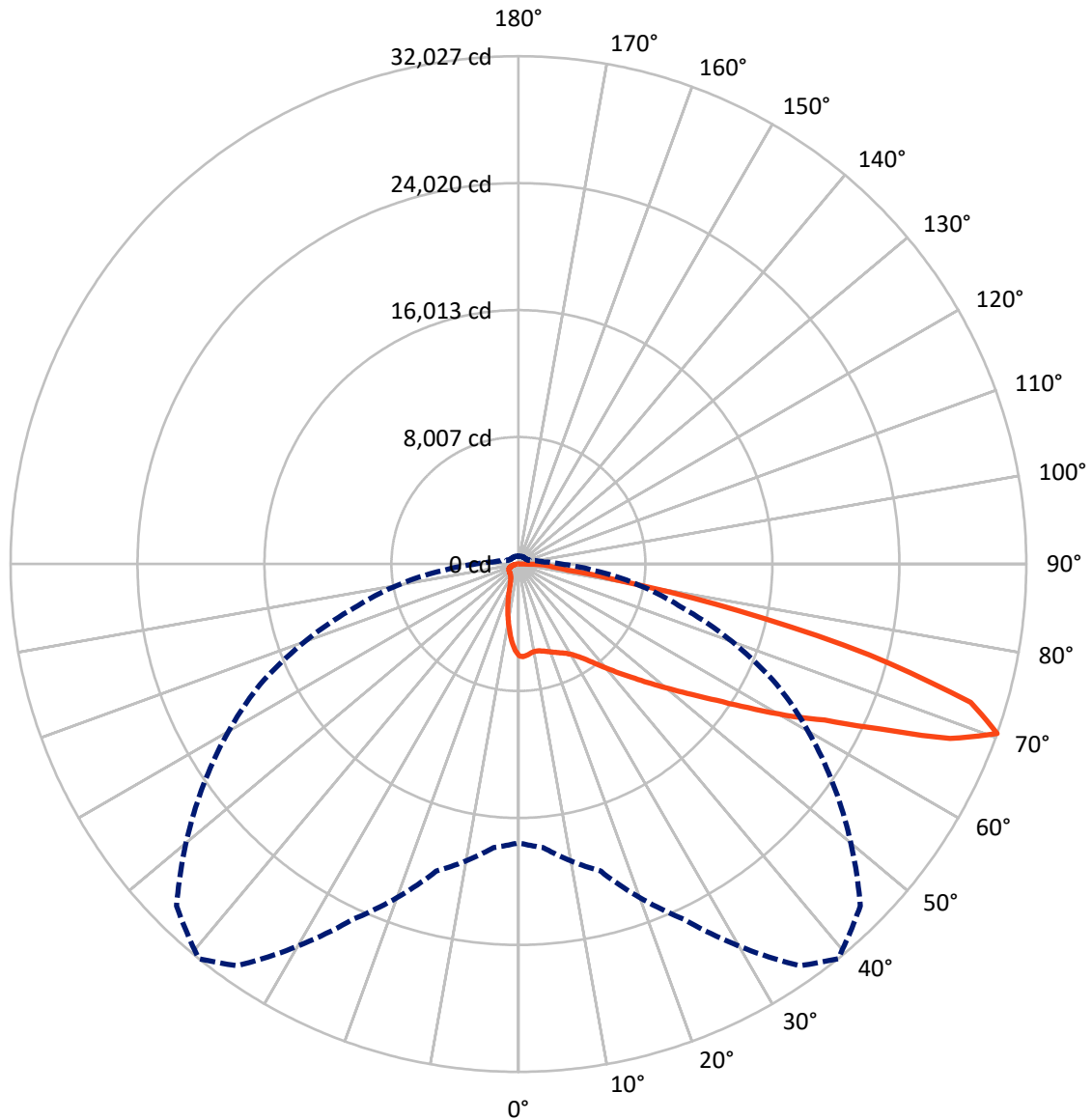


Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4336.5	0.0	4336.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	33792.1	0.0	33792.1
	% Fixture	88.6	0.0	88.6
Total	Lumens	38128.6	0.0	38128.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.8	1.3
10°-20°	1241.7	3.3
20°-30°	1933.4	5.1
30°-40°	3011.9	7.9
40°-50°	5056.4	13.3
50°-60°	8032.6	21.1
60°-70°	10714.5	28.1
70°-80°	6470.2	17.0
80°-90°	1171.0	3.1
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°	38128.6	100.0
0°-180°	38128.6	100.0

Coefficient of Utilization



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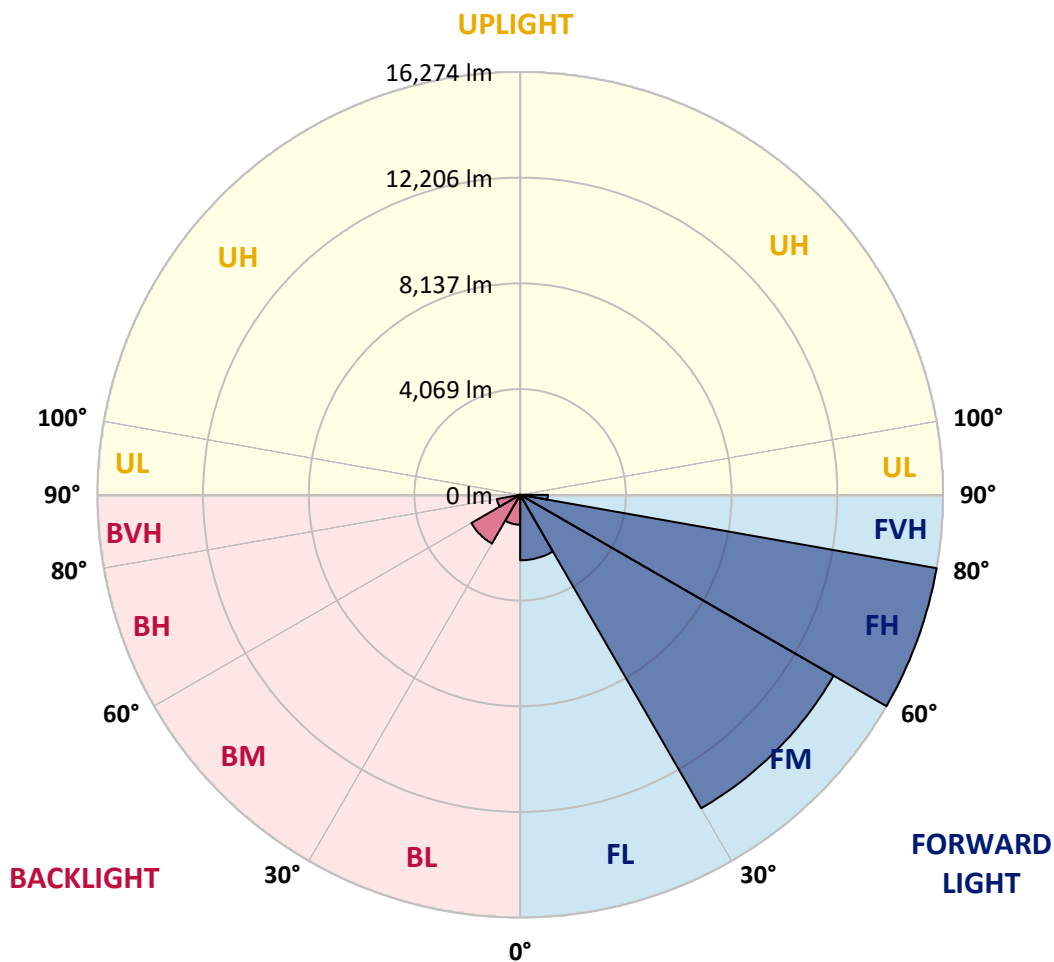
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2521.5	6.6			
FM	(30°-60°)	13930.7	36.5			
FH	(60°-80°)	16274.4	42.7			G5
FVH	(80°-90°)	1065.5	2.8			G5
BL	(0°-30°)	1150.4	3.0	B3/2500		
BM	(30°-60°)	2170.2	5.7	B2/2500		
BH	(60°-80°)	910.4	2.4	B2/1000		G2/1000
BVH	(80°-90°)	105.5	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5788.5	5788.5	5788.5	5788.5	5788.5	5788.5	5788.5	5788.5	5788.5	5788.5	5788.5
2.5°	5901.0	5899.0	5883.4	5872.0	5862.2	5858.2	5866.0	5836.9	5811.8	5780.8	5747.9
5°	5856.4	5854.4	5829.2	5805.9	5782.7	5774.9	5773.0	5720.6	5689.7	5643.2	5581.1
7.5°	5807.9	5798.2	5765.2	5726.4	5685.7	5666.4	5646.9	5579.2	5544.2	5497.7	5426.0
10°	5757.4	5745.9	5714.8	5676.1	5637.4	5608.2	5575.3	5509.3	5472.6	5437.6	5354.3
12.5°	5705.1	5695.4	5687.7	5670.2	5643.2	5617.9	5592.7	5536.6	5497.7	5457.1	5360.0
15°	5697.4	5693.5	5711.0	5722.7	5707.1	5691.7	5664.4	5615.9	5575.3	5534.5	5408.5
17.5°	5759.5	5757.4	5802.2	5833.1	5825.4	5798.2	5761.4	5707.1	5674.1	5639.2	5482.3
20°	5895.1	5904.7	5959.0	5999.8	5961.1	5922.3	5862.2	5786.6	5769.2	5753.6	5557.9
22.5°	6151.1	6160.8	6199.6	6215.1	6114.1	6058.0	5974.5	5877.7	5866.0	5877.7	5648.9
25°	6550.4	6540.6	6534.9	6476.7	6292.5	6205.3	6098.7	5997.9	6003.7	6056.1	5776.9
27.5°	7079.6	7027.3	6945.9	6771.3	6478.7	6381.6	6251.8	6158.8	6195.6	6296.4	5968.8
30°	7628.1	7570.0	7382.0	7097.0	6722.8	6616.2	6470.9	6366.2	6463.1	6622.0	6224.6
32.5°	8136.0	8128.4	7853.1	7486.7	7060.1	6967.2	6821.8	6703.5	6860.5	7102.9	6608.6
35°	8690.6	8708.0	8378.4	7938.3	7515.8	7418.8	7314.2	7225.0	7434.4	7767.7	7164.9
37.5°	9283.8	9318.6	8929.0	8432.7	8035.2	7994.6	7932.6	7893.8	8217.5	8678.9	7942.3
40°	10076.6	10041.8	9500.8	8991.0	8673.0	8671.1	8651.8	8698.3	9237.2	9869.1	8940.7
42.5°	10925.6	10822.9	10107.5	9590.0	9372.8	9438.9	9477.6	9667.6	10464.3	11315.3	10158.0
45°	11840.6	11610.0	10737.6	10223.9	10150.3	10289.8	10421.6	10834.5	11908.6	12961.1	11491.7
47.5°	12571.5	12348.6	11389.0	10888.9	11049.7	11261.1	11515.1	12168.4	13525.3	14661.2	12808.0
50°	13147.2	13001.9	12046.1	11664.2	12040.3	12366.0	12780.8	13678.4	15207.9	16316.8	14027.4
52.5°	13705.5	13596.9	12709.1	12459.0	13203.5	13653.2	14217.4	15299.0	16933.2	17945.1	15052.9
55°	14209.6	14132.0	13422.6	13449.7	14572.0	15157.6	15867.0	17144.5	18813.7	19397.1	15921.3
57.5°	14777.6	14678.8	14236.7	14692.3	16330.4	17090.3	18013.1	19218.8	20577.7	20688.2	16582.4
60°	15349.5	15264.1	15140.0	16126.8	18563.6	19362.2	20236.5	21229.0	22367.0	21690.5	16543.5
62.5°	15845.7	15855.4	16074.5	17633.1	20750.3	21674.9	22741.1	23722.0	23985.6	21864.9	15320.4
65°	16687.0	16840.2	17493.5	19765.4	23828.7	25065.4	26374.0	26216.9	24433.4	20234.6	12697.5
67.5°	17687.4	17956.8	19280.9	22607.4	27719.3	29361.3	29867.2	26781.1	22640.3	16448.7	9051.1
70°	17586.5	17956.8	20052.3	24726.1	30925.7	32026.8	30491.4	24237.7	17978.0	10745.3	4807.5
72.5°	15616.9	16146.1	18480.2	23755.0	29915.7	29818.8	26471.0	18069.2	10681.3	4315.2	1878.4
75°	11902.7	12437.8	14446.1	18767.1	23644.5	22830.3	18782.7	9981.5	4053.5	1713.6	1184.4
77.5°	6846.9	7261.8	8812.6	11509.2	15000.4	14165.1	10454.7	4439.2	1973.4	1194.1	924.6
80°	3822.7	4053.5	4995.7	5839.0	7351.0	6738.4	4677.7	2758.5	1473.3	866.5	713.3
82.5°	3022.2	3227.7	4039.9	3683.2	3357.5	3097.9	2686.8	2456.1	1176.7	546.7	426.4
85°	2640.3	2836.0	3419.6	2900.1	2293.4	2103.3	2182.8	2417.3	915.1	329.6	364.4
87.5°	2446.4	2708.2	3047.4	2235.2	1785.4	1581.8	2014.2	2650.0	294.6	205.5	147.3
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°	5788.5	5788.5	5788.5	5788.5	5788.5	5788.5	5788.5	5788.5	5788.5	5788.5	5788.5
2.5°	5718.7	5687.7	5637.4	5592.7	5522.9	5486.0	5445.3	5416.3	5393.1	5373.8	5404.7
5°	5542.4	5484.2	5377.6	5263.2	5127.4	5020.8	4931.6	4848.3	4790.1	4751.3	4778.5
7.5°	5375.5	5280.5	5114.0	4906.5	4673.8	4476.2	4313.3	4169.8	4070.9	4007.0	4032.2
10°	5280.5	5162.4	4904.6	4578.8	4235.8	3927.5	3671.6	3450.6	3297.5	3210.3	3223.7
12.5°	5257.3	5104.2	4747.5	4299.6	3830.6	3402.2	3041.7	2735.2	2520.1	2407.6	2411.6
15°	5274.8	5078.9	4600.2	4032.2	3439.0	2898.1	2448.4	2076.3	1826.2	1698.2	1696.2
17.5°	5303.9	5059.7	4445.2	3743.3	3041.7	2413.4	1911.5	1547.1	1326.0	1223.2	1215.4
20°	5334.9	5028.6	4270.6	3431.3	2628.7	1963.8	1496.5	1211.6	1071.9	1015.9	1011.9
22.5°	5379.5	5001.5	4090.3	3101.7	2223.6	1599.3	1230.9	1039.1	965.4	936.4	932.4
25°	5451.3	4987.8	3898.5	2758.5	1859.0	1337.5	1071.9	953.8	911.2	891.7	889.9
27.5°	5571.4	5007.3	3718.2	2425.2	1562.5	1161.1	982.8	911.2	880.1	862.6	860.8
30°	5726.4	5067.3	3528.2	2109.1	1331.7	1041.0	928.6	882.0	856.9	839.3	839.3
32.5°	5984.2	5168.2	3328.5	1835.7	1167.0	957.7	887.9	856.9	835.6	821.9	820.1
35°	6364.2	5358.2	3142.5	1609.0	1048.7	897.5	853.0	829.8	814.3	806.5	806.5
37.5°	6916.8	5658.7	2977.6	1446.1	977.0	856.9	820.1	802.5	792.8	792.8	792.8
40°	7659.2	6073.5	2843.9	1337.5	936.4	827.8	794.8	781.3	775.4	777.4	777.4
42.5°	8576.2	6612.5	2754.7	1261.9	916.9	810.4	777.4	765.7	759.8	758.0	759.8
45°	9621.0	7225.0	2745.0	1205.7	897.5	798.8	765.7	754.0	742.4	734.8	734.8
47.5°	10636.8	7847.2	2824.5	1186.4	876.2	785.1	756.1	744.3	727.0	709.5	709.5
50°	11534.3	8376.4	2931.1	1194.1	868.5	765.7	740.6	734.8	707.5	688.2	686.2
52.5°	12247.9	8783.5	3018.3	1217.5	876.2	752.2	721.1	723.0	694.0	672.7	670.8
55°	12819.6	9051.1	2995.0	1240.6	893.6	744.3	703.7	707.5	684.2	662.9	662.9
57.5°	13069.7	8952.1	2737.2	1221.2	907.3	746.3	690.1	705.6	686.2	666.8	666.8
60°	12532.8	8074.1	2254.6	1135.9	889.9	740.6	684.2	713.3	711.5	692.1	690.1
62.5°	10908.2	6501.9	1748.6	1010.0	829.8	711.5	668.8	711.5	732.7	727.0	725.0
65°	8407.4	4631.2	1335.7	874.3	748.3	662.9	628.0	666.8	695.9	703.7	701.8
67.5°	5457.1	2838.0	1029.4	746.3	657.2	606.7	575.8	593.2	599.0	599.0	595.1
70°	2683.0	1527.6	820.1	628.0	564.1	546.7	529.2	519.5	509.9	502.2	502.2
72.5°	1324.0	998.3	674.5	531.2	486.6	478.8	474.9	463.3	455.6	445.9	442.0
75°	979.0	812.2	573.7	447.9	418.7	411.0	418.7	409.1	407.1	399.3	395.4
77.5°	804.5	692.1	494.3	383.8	358.7	345.0	356.6	358.7	360.6	348.9	345.0
80°	653.2	585.4	413.0	317.9	294.6	284.9	292.7	308.2	312.2	294.6	286.9
82.5°	471.2	478.8	333.5	248.1	228.8	221.1	236.6	255.8	259.8	234.5	228.8
85°	395.4	399.3	255.8	176.3	157.1	145.3	170.6	190.0	203.6	178.4	172.6
87.5°	164.7	234.5	147.3	98.9	87.2	75.5	91.1	100.8	122.1	112.5	110.5
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)