

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: P322534

Luminaire Tested: **GAN-SA0C-730-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45277 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

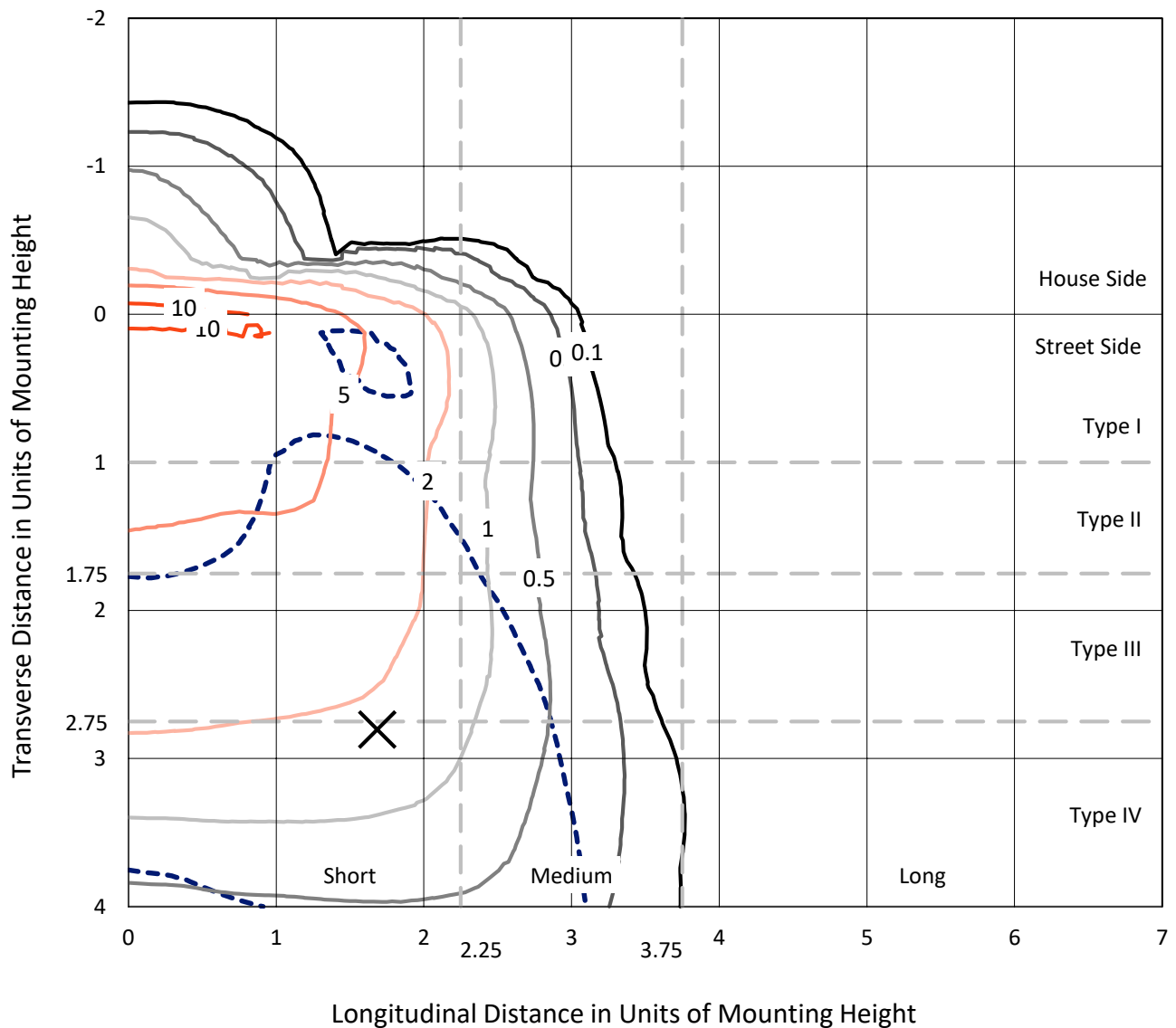
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

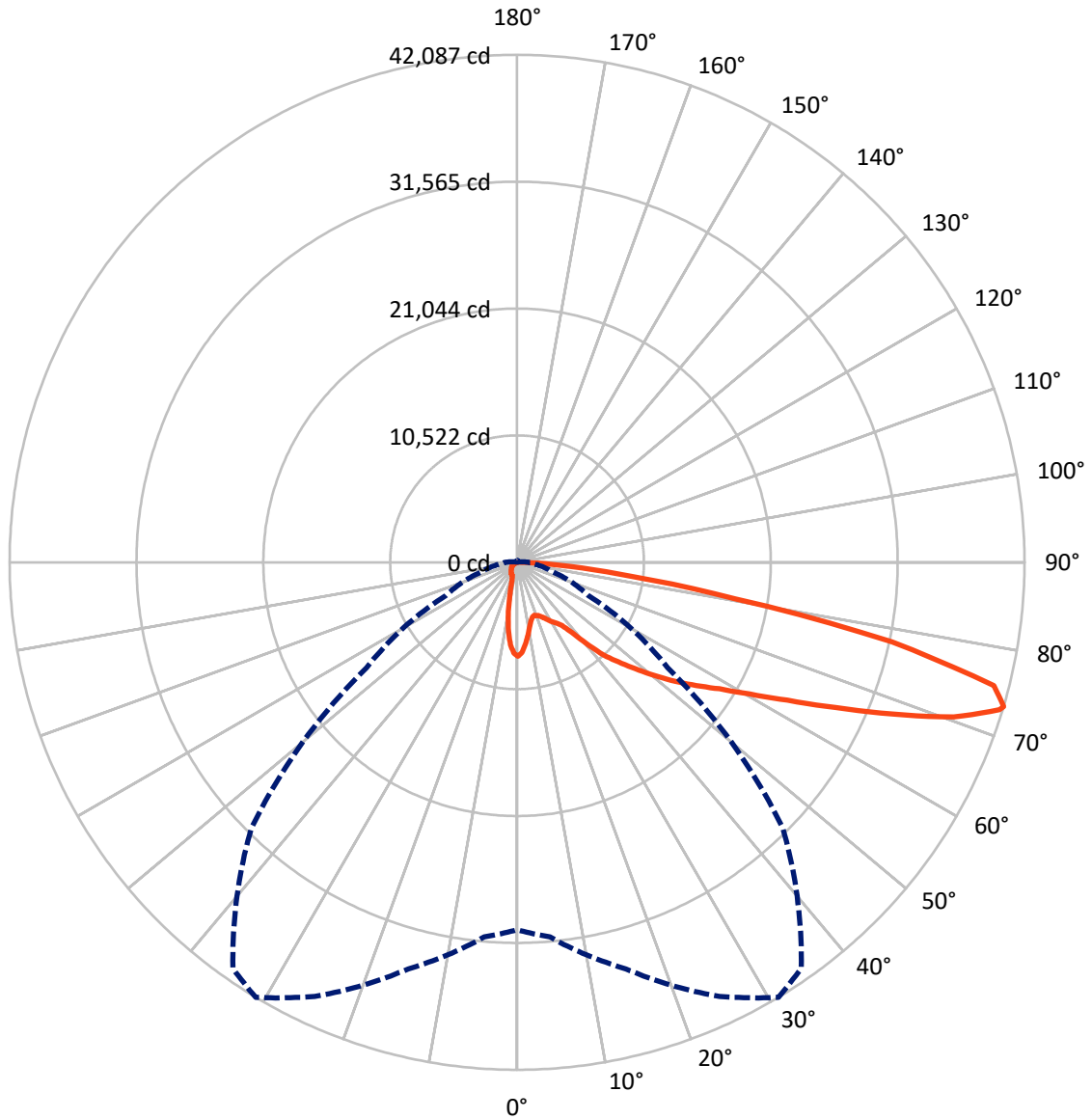
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4127.2	0.0	4127.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	41149.8	0.0	41149.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	45277.0	0.0	45277.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.9	1.4
10°-20°	1402.4	3.1
20°-30°	2101.3	4.6
30°-40°	3343.1	7.4
40°-50°	5969.9	13.2
50°-60°	9263.5	20.5
60°-70°	12314.6	27.2
70°-80°	9263.0	20.5
80°-90°	973.4	2.1
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°	45277.0	100.0
0°-180°	45277.0	100.0

Coefficient of Utilization

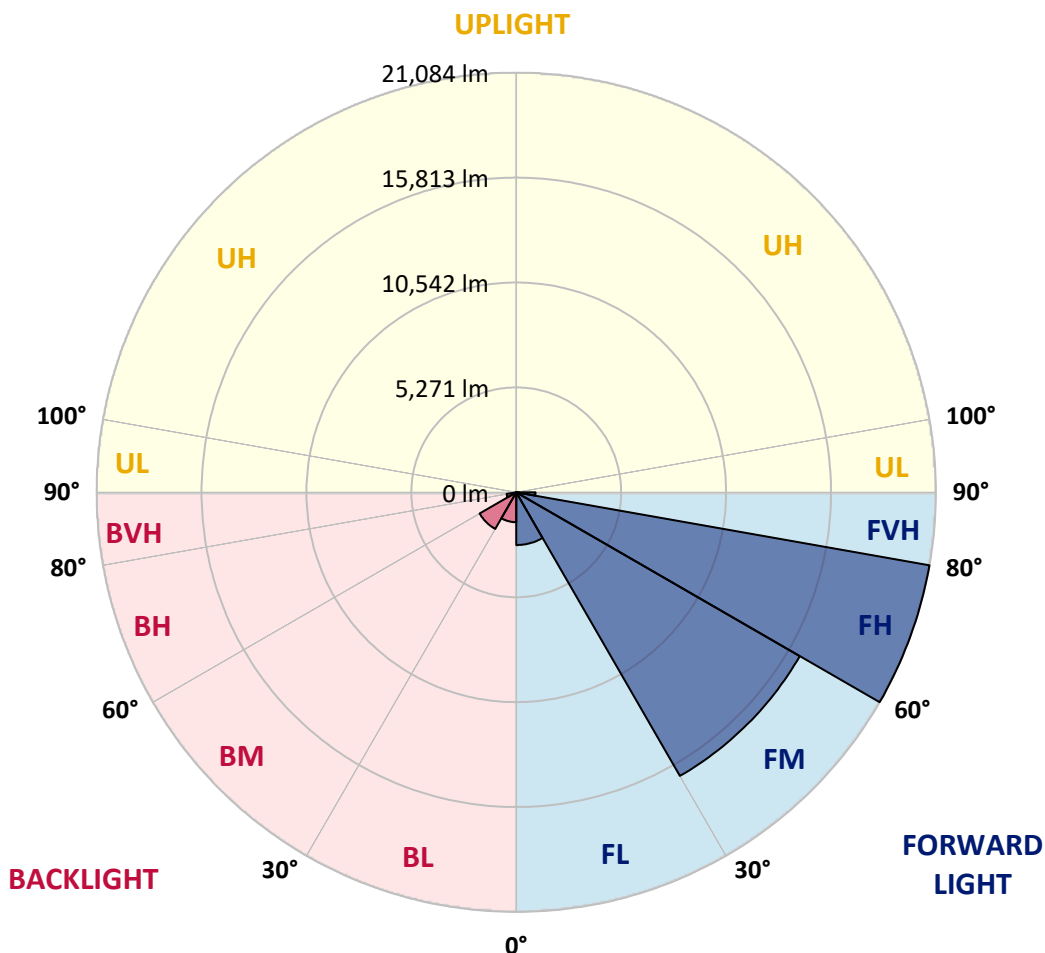


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2648.8	5.9			
FM (30°-60°)	16452.1	36.3			
FH (60°-80°)	21083.8	46.6			G5
FVH (80°-90°)	965.2	2.1			G5
BL (0°-30°)	1500.8	3.3	B3/2500		
BM (30°-60°)	2124.4	4.7	B2/2500		
BH (60°-80°)	493.8	1.1	B1/500		G1/500
BVH (80°-90°)	8.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	7790.0	7790.0	7790.0	7790.0	7790.0	7790.0	7790.0	7790.0	7790.0	7790.0	7790.0
2.5°	7382.3	7413.4	7446.6	7453.2	7508.6	7510.8	7590.6	7650.4	7710.2	7767.8	7787.8
5°	6624.6	6675.6	6735.4	6795.2	6912.6	6959.2	7154.1	7353.5	7544.1	7725.7	7814.4
7.5°	5815.9	5873.5	5957.7	6106.2	6236.9	6327.7	6635.7	6990.2	7344.7	7679.2	7872.0
10°	5078.1	5131.3	5219.9	5377.2	5578.8	5702.9	6117.2	6609.1	7129.8	7637.1	7958.4
12.5°	4608.4	4637.2	4686.0	4854.3	5036.0	5175.6	5663.0	6272.3	6952.5	7634.9	8098.0
15°	4522.0	4530.9	4491.0	4566.3	4708.1	4843.3	5337.3	5999.8	6817.4	7670.4	8279.6
17.5°	4659.4	4654.9	4522.0	4513.1	4626.1	4736.9	5177.8	5811.5	6722.1	7752.3	8514.5
20°	4867.6	4852.1	4621.7	4579.6	4699.3	4803.4	5166.7	5740.6	6686.6	7889.7	8800.3
22.5°	5144.6	5118.0	4756.9	4712.6	4841.1	4949.6	5304.1	5809.3	6717.7	8073.6	9132.6
25°	5488.0	5448.1	4989.5	4940.8	5071.5	5180.0	5550.0	6006.5	6810.7	8297.4	9553.6
27.5°	5875.7	5818.1	5361.7	5235.4	5383.9	5496.9	5877.9	6307.8	6956.9	8534.4	10069.8
30°	6241.3	6166.0	5753.9	5545.6	5727.3	5853.6	6232.4	6666.7	7191.8	8900.0	10776.6
32.5°	6609.1	6524.9	6103.9	5855.8	6019.7	6157.1	6598.0	7160.8	7632.7	9458.3	11716.0
35°	7455.4	7366.8	6850.6	6440.7	6438.5	6516.0	7109.8	7836.5	8215.4	10236.0	12837.1
37.5°	8880.1	8829.1	8337.3	7559.6	7351.3	7264.9	7807.7	8643.0	9052.9	11306.1	14102.2
40°	10439.8	10395.5	9843.8	9139.3	8822.5	8609.8	8809.2	9766.3	10236.0	12613.3	15393.9
42.5°	12201.2	11990.8	11007.0	10796.6	10513.0	10351.2	10171.8	11151.0	11689.4	14035.7	16674.5
45°	13800.9	13446.4	12170.2	11851.2	11786.9	11826.8	11926.5	13012.1	13324.5	15726.2	17950.7
47.5°	14753.6	14474.4	13495.1	13189.4	13171.7	13435.3	14188.6	15114.7	14953.0	17199.6	19074.0
50°	15659.8	15407.2	14594.1	14669.4	14751.4	15110.3	16756.5	17277.1	16439.6	18535.6	20104.2
52.5°	16393.1	16007.6	15582.2	16005.4	16408.6	16986.9	19406.3	19218.0	17494.3	19599.1	20986.0
55°	16816.3	16641.3	16847.3	17272.7	18030.4	18969.8	21907.7	20833.2	18265.3	20569.5	21573.2
57.5°	18367.2	18023.8	18433.7	18801.5	19789.6	21103.5	24050.2	22036.2	18821.4	21169.9	21708.3
60°	20243.8	19966.9	20208.4	20819.9	22153.6	23697.9	26053.1	23017.7	19111.6	21555.4	21358.2
62.5°	23230.4	22864.8	22714.2	23398.8	25166.8	26852.9	27573.0	23697.9	19047.4	21384.8	20157.4
65°	27231.8	26852.9	26179.4	26799.7	29048.5	30238.3	29272.3	23841.9	18604.3	20004.5	17122.0
67.5°	31330.6	31055.9	30479.8	31525.6	33555.1	33938.3	31069.2	23491.9	17177.4	16220.3	12097.1
70°	34038.0	33920.6	34295.1	36608.1	38418.3	38307.5	32717.6	21610.8	13388.8	9974.6	5984.3
72.5°	32086.1	32648.9	35413.9	39608.0	41819.2	40915.2	31871.2	16594.7	7652.6	3837.4	1730.4
73°	30468.7	31188.8	34911.0	39721.0	42087.3	41096.9	31160.0	15232.2	6522.7	3028.7	1311.6
75°	21196.5	22080.5	28902.3	36993.6	40833.3	39156.1	25973.3	9323.2	3022.1	1342.6	529.5
77.5°	10291.4	10945.0	15914.6	26728.8	31756.0	30592.8	16169.3	3474.0	1364.8	839.7	243.7
80°	3841.8	4271.6	6908.2	13603.7	18351.7	18832.5	7112.0	1313.8	908.4	675.8	124.1
82.5°	1005.9	1121.1	2547.9	6066.3	9405.2	9843.8	2242.2	662.5	664.7	556.1	75.3
85°	321.3	367.8	795.4	2723.0	4431.2	3890.6	584.9	321.3	483.0	414.3	42.1
87.5°	39.9	51.0	252.6	640.3	977.1	542.8	90.8	95.3	206.0	230.4	24.4
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°	7790.0	7790.0	7790.0	7790.0	7790.0	7790.0	7790.0	7790.0	7790.0	7790.0	7790.0
2.5°	7807.7	7796.6	7798.9	7741.3	7703.6	7628.3	7550.7	7515.3	7477.6	7462.1	7477.6
5°	7847.6	7827.7	7770.1	7592.8	7404.5	7160.8	6932.6	6759.8	6542.6	6482.8	6544.8
7.5°	7909.6	7869.8	7701.4	7340.2	6921.5	6456.2	5933.3	5552.3	5239.9	5038.2	5111.4
10°	8000.5	7925.2	7586.2	6972.4	6223.6	5399.4	4657.2	4078.9	3669.0	3500.6	3494.0
12.5°	8153.4	8011.6	7444.4	6493.9	5370.6	4271.6	3299.0	2672.0	2339.7	2124.7	2120.3
15°	8321.7	8113.5	7264.9	5920.0	4378.0	3059.7	2124.7	1648.4	1433.5	1364.8	1355.9
17.5°	8527.8	8230.9	7032.3	5213.3	3338.9	2027.3	1387.0	1249.6	1240.7	1234.1	1234.1
20°	8787.0	8370.5	6733.2	4404.6	2368.5	1353.7	1178.7	1187.6	1192.0	1183.1	1185.3
22.5°	9088.3	8512.3	6376.5	3536.1	1601.9	1132.2	1127.7	1138.8	1143.2	1138.8	1141.0
25°	9438.4	8676.2	5942.2	2625.5	1156.5	1074.6	1085.6	1101.1	1112.2	1112.2	1112.2
27.5°	9872.7	8875.6	5419.3	1832.3	999.2	1014.7	1045.8	1074.6	1090.1	1094.5	1094.5
30°	10437.6	9123.8	4792.3	1256.2	908.4	935.0	992.6	1048.0	1076.8	1081.2	1083.4
32.5°	11151.0	9402.9	4065.6	928.3	830.8	850.8	912.8	1005.9	1061.3	1070.1	1070.1
35°	11968.6	9726.4	3283.5	808.7	775.5	782.1	830.8	937.2	1034.7	1059.1	1061.3
37.5°	12863.7	10045.5	2497.0	755.5	728.9	728.9	764.4	855.2	970.4	1045.8	1054.6
40°	13699.0	10238.2	1750.3	713.4	686.8	686.8	717.8	784.3	892.9	1005.9	1030.2
42.5°	14470.0	10304.7	1218.6	673.5	647.0	653.6	680.2	733.4	815.3	928.3	950.5
45°	15263.2	10293.6	888.5	627.0	607.1	627.0	647.0	686.8	746.7	810.9	815.3
47.5°	15861.4	10200.6	704.6	582.7	569.4	596.0	613.7	640.3	673.5	669.1	669.1
50°	16421.9	9974.6	567.2	522.9	531.7	562.8	571.6	580.5	582.7	540.6	536.2
52.5°	16847.3	9622.3	454.2	458.6	494.1	525.1	516.2	502.9	480.8	429.8	421.0
55°	16989.1	8944.3	356.7	378.9	438.7	478.6	445.3	416.5	374.4	332.3	323.5
57.5°	16732.1	8069.2	290.2	294.7	370.0	403.2	365.6	332.3	285.8	250.4	243.7
60°	16187.1	7096.5	239.3	221.6	285.8	314.6	290.2	257.0	214.9	188.3	186.1
62.5°	15105.9	6059.6	197.2	172.8	217.1	241.5	226.0	201.6	166.2	148.4	146.2
65°	12832.7	4847.7	159.5	139.6	168.4	188.3	175.0	157.3	130.7	117.4	115.2
67.5°	8957.6	3276.9	130.7	115.2	132.9	148.4	137.4	128.5	104.1	101.9	104.1
70°	4320.4	1579.7	108.6	93.1	104.1	115.2	110.8	104.1	99.7	115.2	132.9
72.5°	1238.5	529.5	86.4	77.5	84.2	90.8	95.3	93.1	108.6	139.6	161.7
73°	952.7	427.6	82.0	73.1	79.8	88.6	93.1	90.8	110.8	141.8	161.7
75°	407.7	206.0	62.0	59.8	66.5	77.5	82.0	82.0	110.8	144.0	155.1
77.5°	183.9	110.8	39.9	46.5	57.6	62.0	68.7	68.7	88.6	110.8	110.8
80°	104.1	59.8	31.0	35.4	42.1	42.1	42.1	37.7	39.9	44.3	48.7
82.5°	66.5	39.9	24.4	28.8	26.6	22.2	17.7	17.7	15.5	17.7	22.2
85°	37.7	22.2	22.2	17.7	11.1	8.9	11.1	8.9	2.2	0.0	2.2
87.5°	22.2	13.3	6.6	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)