

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: P323892

Luminaire Tested: **GAN-SA8C-750-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-750-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46007 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

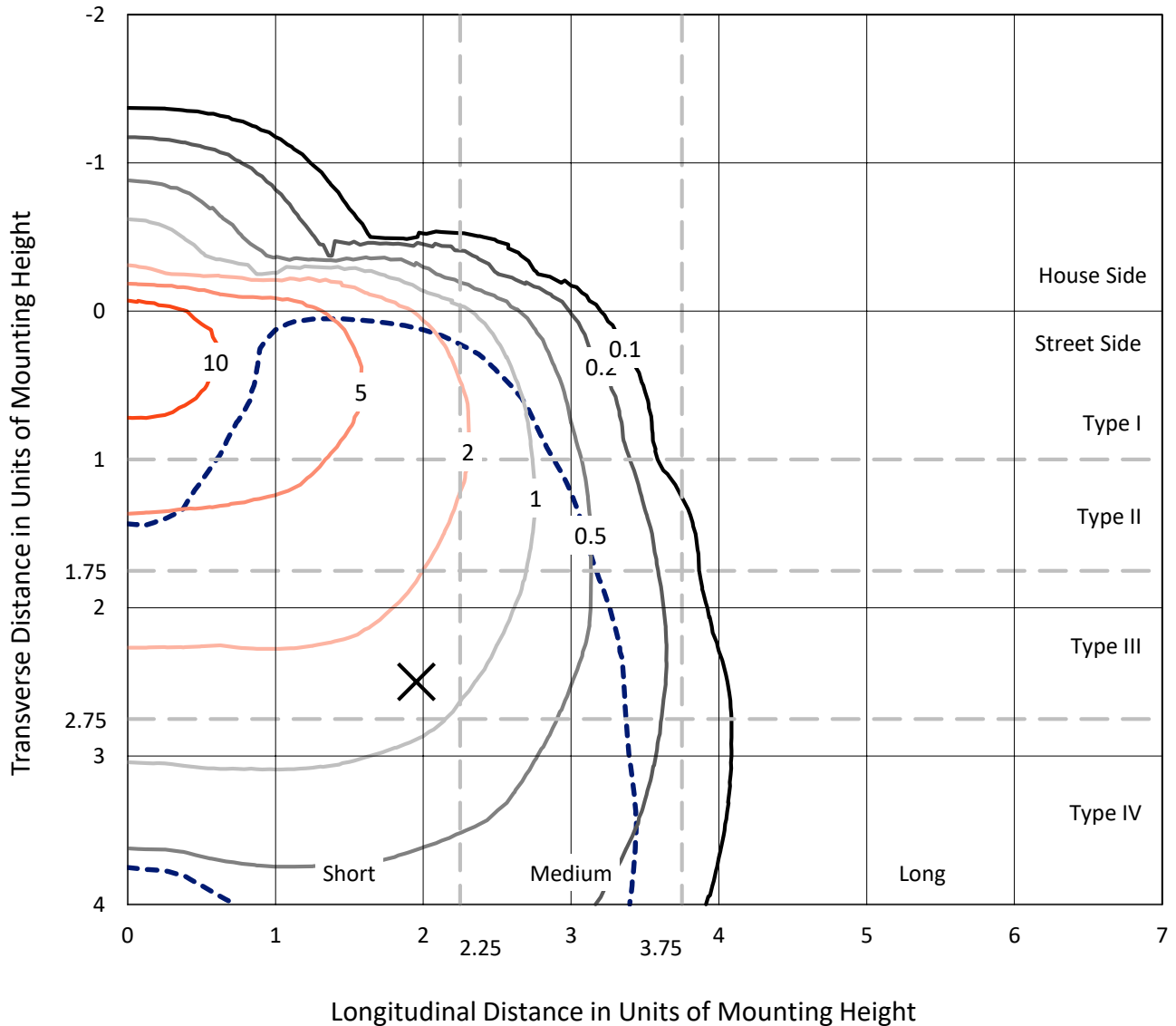
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

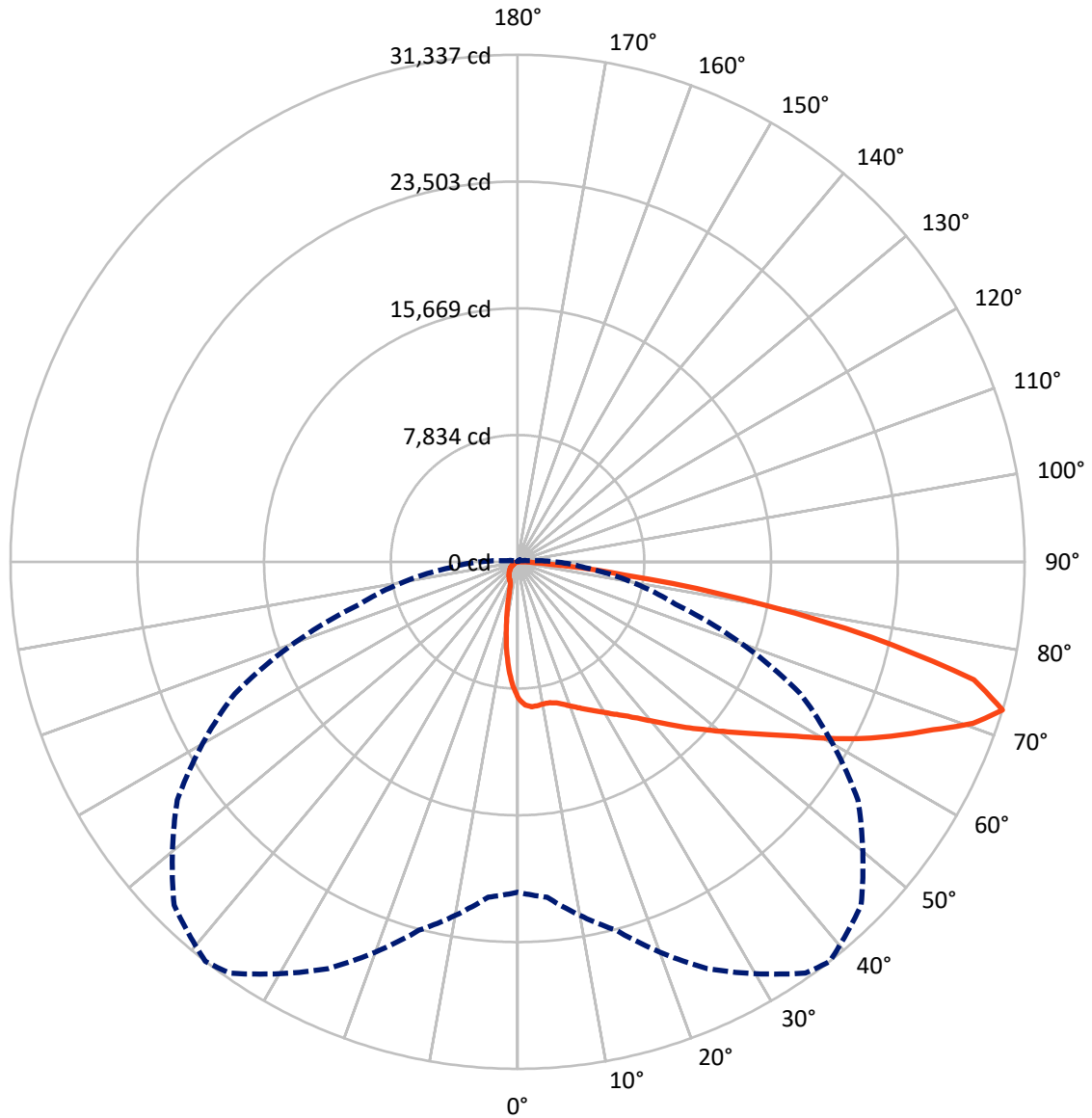
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GAN-SA8C-750-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3871.7	0.0	3871.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	42135.3	0.0	42135.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	46007.0	0.0	46007.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.0	1.6
10°-20°	1763.0	3.8
20°-30°	2804.0	6.1
30°-40°	4215.6	9.2
40°-50°	6431.1	14.0
50°-60°	9089.3	19.8
60°-70°	11401.1	24.8
70°-80°	8524.8	18.5
80°-90°	1057.0	2.3
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°	46007.0	100.0
0°-180°	46007.0	100.0

Coefficient of Utilization

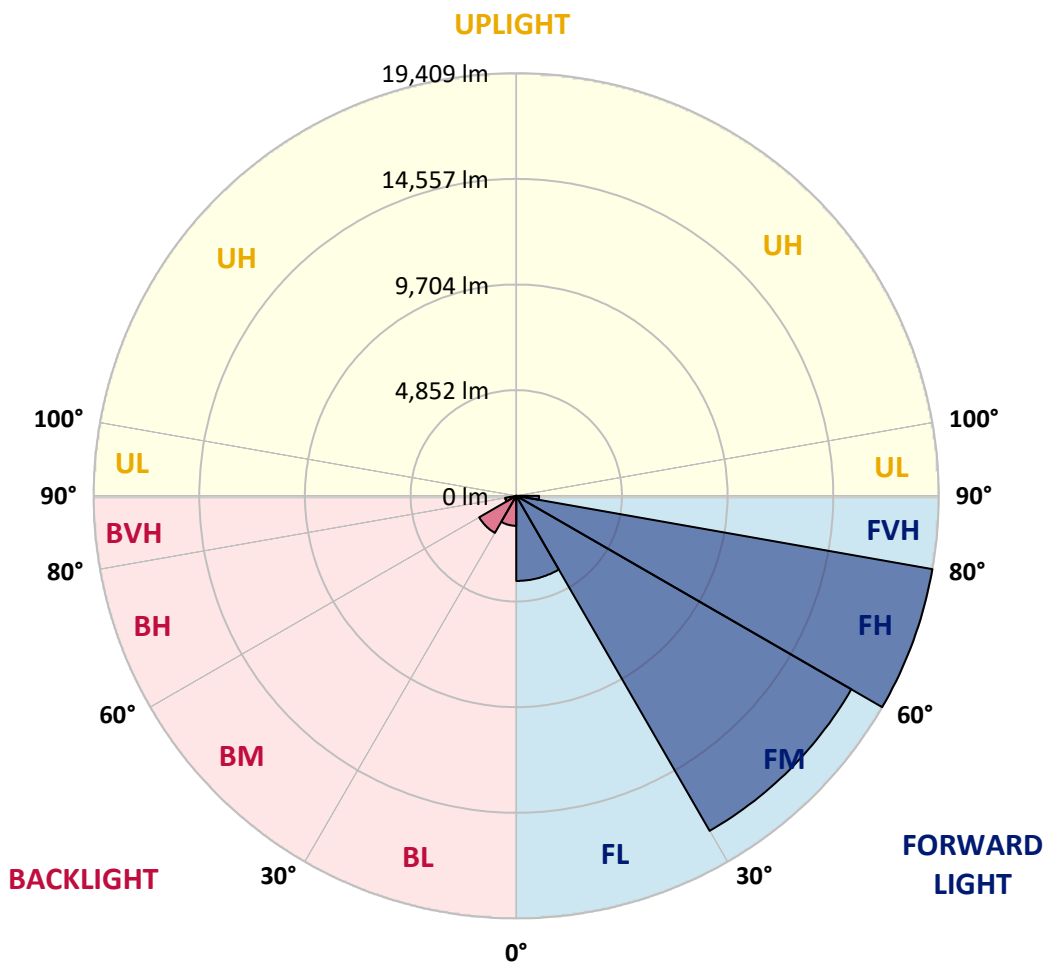


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3909.5	8.5			
FM (30°-60°)	17769.9	38.6			
FH (60°-80°)	19408.7	42.2			G5
FVH (80°-90°)	1047.2	2.3			G5
BL (0°-30°)	1378.6	3.0	B3/2500		
BM (30°-60°)	1966.1	4.3	B2/2500		
BH (60°-80°)	517.2	1.1	B2/1000		G2/1000
BVH (80°-90°)	9.9	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°	35°	38°	45°	55°	65°	75°	85°
0°	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5
2.5°	8980.2	8982.2	8961.1	8926.7	8882.8	8859.9	8821.7	8760.5	8695.6	8579.0	8452.9
5°	9163.7	9163.7	9136.9	9091.1	9020.4	8999.4	8926.7	8829.3	8695.6	8506.4	8294.3
7.5°	9144.6	9148.4	9112.1	9064.3	8993.6	8974.5	8886.6	8777.7	8611.5	8382.2	8110.9
10°	9045.2	9054.8	9026.1	9003.2	8938.2	8917.2	8835.0	8726.1	8559.9	8315.3	8003.9
12.5°	8943.9	8953.5	8963.0	8984.1	8943.9	8936.3	8871.3	8779.6	8621.0	8366.9	8015.3
15°	8879.0	8898.1	8966.9	9049.0	9058.6	9050.9	9008.9	8922.9	8762.4	8498.7	8097.5
17.5°	8879.0	8909.5	9052.8	9209.5	9264.9	9270.7	9234.4	9114.0	8922.9	8640.1	8173.9
20°	8953.5	8995.5	9219.1	9440.7	9532.4	9532.4	9461.7	9293.6	9070.0	8768.2	8225.5
22.5°	9144.6	9200.0	9480.8	9736.9	9834.3	9813.3	9717.8	9473.2	9222.9	8913.4	8290.5
25°	9521.0	9563.0	9855.3	10113.3	10172.5	10124.7	10004.4	9691.0	9417.8	9110.2	8408.9
27.5°	10006.3	10012.0	10313.9	10531.7	10495.4	10462.9	10312.0	9964.2	9698.7	9391.0	8613.4
30°	10539.4	10539.4	10805.0	10971.2	10860.4	10833.6	10682.7	10294.8	10057.9	9773.2	8903.8
32.5°	11055.3	11078.2	11294.1	11399.2	11275.0	11248.2	11101.1	10713.2	10535.5	10355.9	9356.6
35°	11553.9	11571.1	11775.6	11832.9	11714.4	11722.1	11617.0	11288.4	11221.5	11198.6	10038.8
37.5°	12037.3	12041.2	12249.4	12285.7	12226.5	12291.5	12301.0	12010.6	12134.8	12320.1	10999.8
40°	12478.7	12482.5	12688.9	12782.5	12883.8	12967.9	13042.4	12887.6	13298.4	13728.3	12144.3
42.5°	12832.2	12872.3	13134.1	13311.8	13579.3	13739.8	13942.3	13934.7	14683.7	15329.5	13527.7
45°	13143.6	13212.4	13577.4	13888.8	14347.4	14603.4	14920.6	15169.0	16242.8	17112.1	14928.2
47.5°	13554.4	13619.4	14035.9	14546.1	15157.5	15493.8	16019.2	16556.1	17956.7	18862.3	16296.3
50°	14133.4	14104.7	14515.5	15247.3	16032.6	16474.0	17223.0	18027.4	19657.2	20387.1	17100.7
52.5°	14750.5	14739.1	15042.9	16009.7	17064.4	17580.3	18570.0	19548.3	21283.2	21437.9	17469.4
55°	15514.8	15432.6	15688.7	16879.0	18289.1	18843.2	20008.7	21053.9	22578.6	22030.3	17654.8
57.5°	16315.4	16179.7	16424.3	17847.8	19670.6	20325.9	21602.3	22521.3	23440.3	22435.3	17652.9
60°	17142.7	16982.2	17272.6	19059.1	21386.4	22144.9	23329.5	23513.0	24244.7	22639.8	17522.9
62.5°	17834.4	17738.8	18170.7	20354.6	23302.8	24047.9	24634.5	24414.8	24923.0	22798.4	17219.1
65°	18566.2	18571.9	19269.3	21865.9	25339.6	25842.1	25891.8	25584.1	25490.5	22765.9	16191.2
67.5°	19555.9	19647.6	20811.2	23918.0	27321.0	27708.8	27705.0	26850.9	25905.1	21474.2	13911.7
70°	20603.0	20818.9	22588.2	26266.3	29483.9	29877.5	29674.9	27657.2	24391.9	17364.4	9845.8
72.5°	20427.2	20801.7	23576.0	27747.0	31037.2	31337.2	30020.8	25675.9	19278.9	10092.3	4192.1
75°	15759.4	16193.1	21617.5	26279.6	29407.4	29138.0	25794.3	19980.1	10535.5	2816.4	943.9
77.5°	8324.9	8556.1	14280.5	20020.2	22930.2	22366.5	18170.7	11083.9	3211.9	697.4	424.2
80°	4360.2	4413.7	6223.1	11359.1	14152.5	14156.3	10768.6	4868.4	1324.1	357.3	284.7
82.5°	2334.9	2380.7	3288.3	5248.7	7415.4	6721.8	4123.3	2678.8	770.0	202.5	273.2
85°	561.7	571.3	1864.8	2397.9	2915.7	2082.7	1224.8	2248.9	208.3	118.5	221.6
87.5°	215.9	219.7	691.7	1037.5	743.3	481.5	573.2	838.8	26.7	45.9	34.4
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°	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5
2.5°	8376.5	8326.8	8204.5	8049.7	7912.2	7812.8	7663.8	7566.3	7501.4	7499.5	7474.6
5°	8164.4	8063.1	7799.4	7486.1	7201.4	6945.4	6643.5	6404.6	6226.9	6198.3	6137.1
7.5°	7937.0	7770.8	7365.7	6876.6	6398.9	5913.6	5349.9	5000.3	4700.3	4557.0	4541.7
10°	7797.5	7564.4	6989.3	6282.3	5533.4	4744.2	4006.7	3496.6	3127.8	3022.7	2944.4
12.5°	7768.9	7461.2	6698.9	5724.4	4654.4	3611.2	2795.3	2252.7	1958.5	1864.8	1840.0
15°	7797.5	7413.5	6454.3	5172.2	3764.1	2562.2	1876.3	1561.0	1450.2	1423.5	1421.6
17.5°	7814.7	7356.2	6177.3	4558.9	2900.4	1830.4	1436.8	1345.1	1327.9	1326.0	1329.8
20°	7812.8	7268.3	5846.7	3874.9	2157.2	1438.7	1299.3	1280.2	1276.3	1278.3	1276.3
22.5°	7799.4	7165.1	5483.7	3169.8	1629.8	1285.9	1240.0	1228.6	1226.7	1226.7	1226.7
25°	7824.3	7082.9	5084.3	2495.4	1343.2	1215.2	1186.5	1177.0	1175.1	1175.1	1171.3
27.5°	7914.1	7037.1	4646.8	1920.2	1213.3	1152.1	1129.2	1127.3	1121.6	1119.7	1123.5
30°	8059.3	7037.1	4167.2	1494.2	1134.9	1087.2	1070.0	1066.2	1064.3	1062.3	1064.3
32.5°	8315.3	7090.6	3643.7	1241.9	1060.4	1014.6	1003.1	1008.8	1003.1	1003.1	1003.1
35°	8777.7	7251.1	3095.3	1083.4	982.1	943.9	932.4	940.1	936.2	936.2	934.3
37.5°	9452.2	7549.1	2543.1	987.8	913.3	873.2	857.9	869.4	865.5	865.5	863.6
40°	10273.8	7982.9	2017.7	915.2	846.4	804.4	791.0	796.8	787.2	787.2	791.0
42.5°	11288.4	8533.1	1559.1	844.5	779.6	739.4	731.8	726.1	708.9	699.3	701.2
45°	12415.7	9106.3	1215.2	775.7	716.5	684.0	672.6	657.3	628.6	609.5	611.4
47.5°	13422.6	9547.7	987.8	708.9	659.2	634.3	617.2	588.5	546.5	523.5	525.4
50°	13951.9	9614.6	840.7	642.0	605.7	580.8	556.0	512.1	462.4	437.5	435.6
52.5°	14087.5	9301.2	731.8	580.8	552.2	523.5	491.0	431.8	376.4	349.7	345.8
55°	14137.2	8823.6	634.3	523.5	494.9	462.4	420.4	353.5	301.9	275.1	273.2
57.5°	13972.9	8110.9	557.9	471.9	437.5	397.4	345.8	282.8	233.1	212.1	212.1
60°	13607.9	7146.0	498.7	416.5	378.3	332.5	279.0	219.7	173.9	156.7	156.7
62.5°	12880.0	5896.4	443.3	359.2	322.9	275.1	225.5	166.2	122.3	112.7	114.6
65°	11506.2	4472.9	387.9	307.6	275.1	227.4	175.8	118.5	82.2	82.2	86.0
67.5°	9383.4	3106.8	330.5	261.8	236.9	185.3	133.7	82.2	57.3	65.0	72.6
70°	6211.7	1742.5	282.8	215.9	202.5	147.1	99.4	55.4	45.9	61.1	74.5
72.5°	2344.4	678.3	236.9	173.9	175.8	112.7	70.7	42.0	42.0	66.9	87.9
75°	653.5	332.5	170.1	128.0	137.6	82.2	51.6	36.3	40.1	76.4	103.2
77.5°	384.0	244.6	110.8	74.5	93.6	57.3	34.4	28.7	34.4	65.0	99.4
80°	309.5	129.9	65.0	38.2	51.6	32.5	22.9	17.2	9.6	24.8	51.6
82.5°	309.5	78.3	30.6	26.7	26.7	17.2	11.5	7.6	1.9	0.0	13.4
85°	208.3	32.5	19.1	17.2	13.4	5.7	3.8	1.9	0.0	0.0	0.0
87.5°	34.4	13.4	7.6	3.8	1.9	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)