

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: P322981

Luminaire Tested: **GAN-SA7D-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39777 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

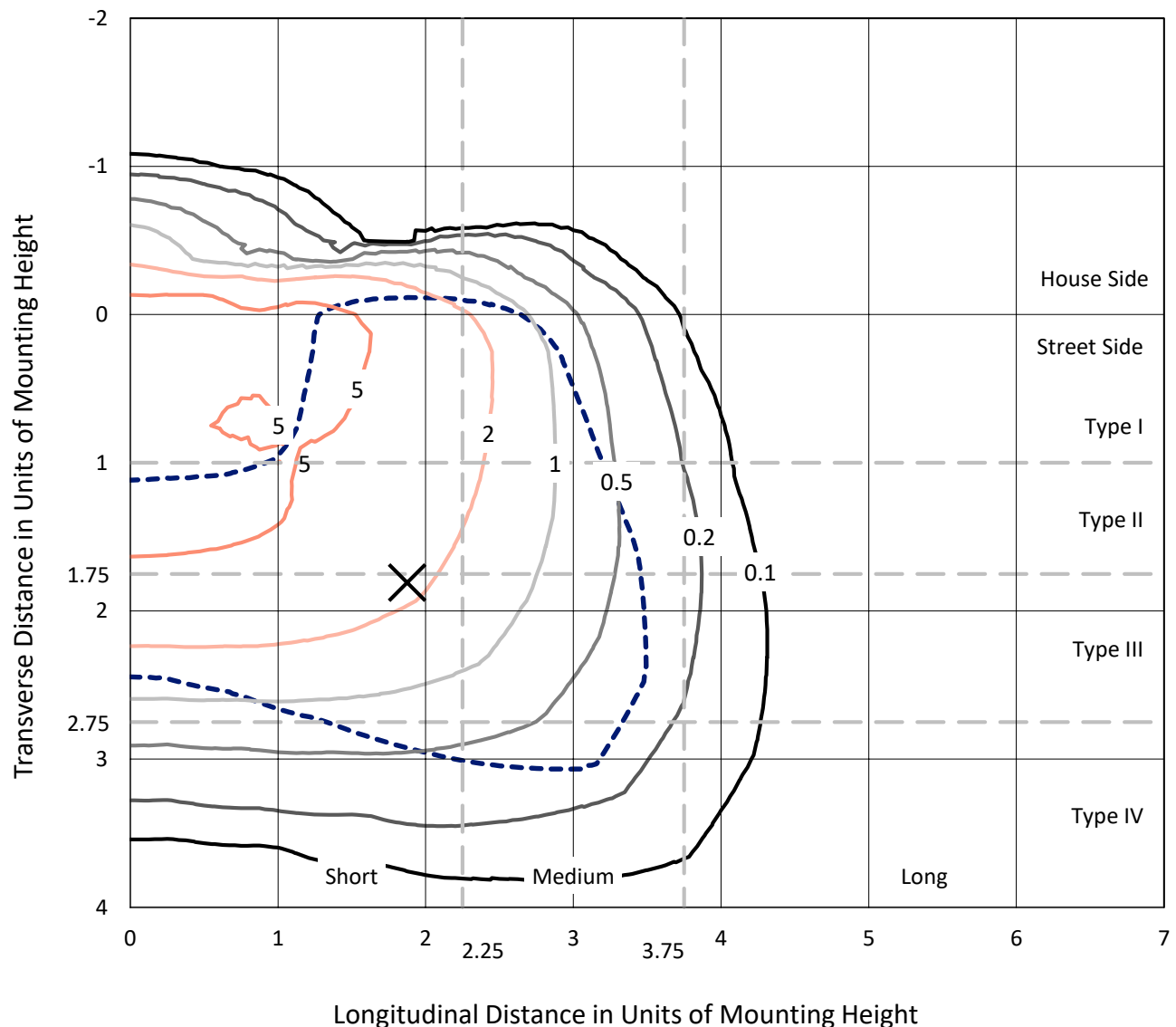
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

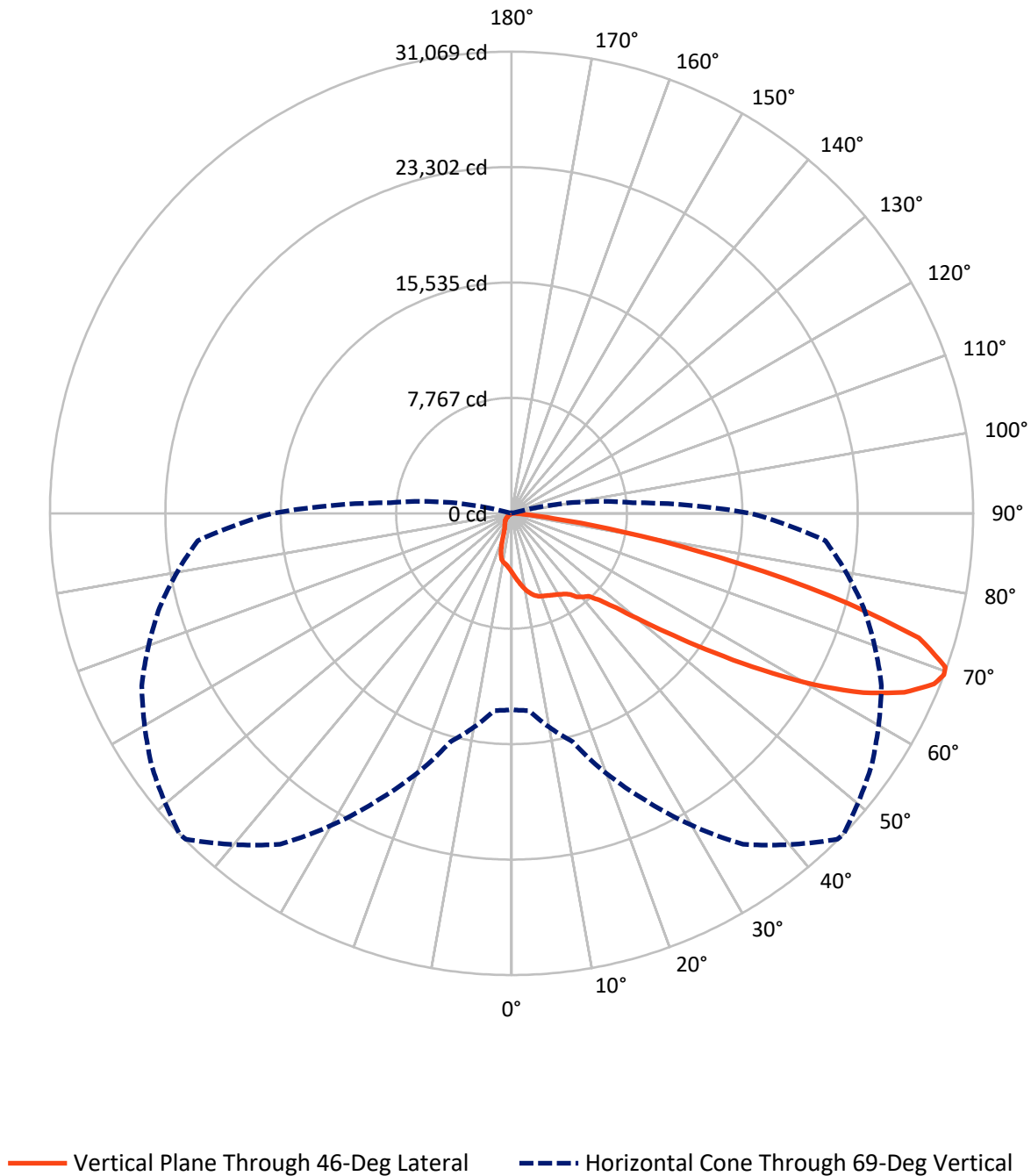
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4082.2	0.0	4082.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	35694.8	0.0	35694.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	39777.0	0.0	39777.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.7	1.0
10°-20°	1203.5	3.0
20°-30°	1892.7	4.8
30°-40°	2714.1	6.8
40°-50°	4691.0	11.8
50°-60°	9267.5	23.3
60°-70°	12952.1	32.6
70°-80°	6257.3	15.7
80°-90°	402.2	1.0
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°	39777.0	100.0
0°-180°	39777.0	100.0

Coefficient of Utilization



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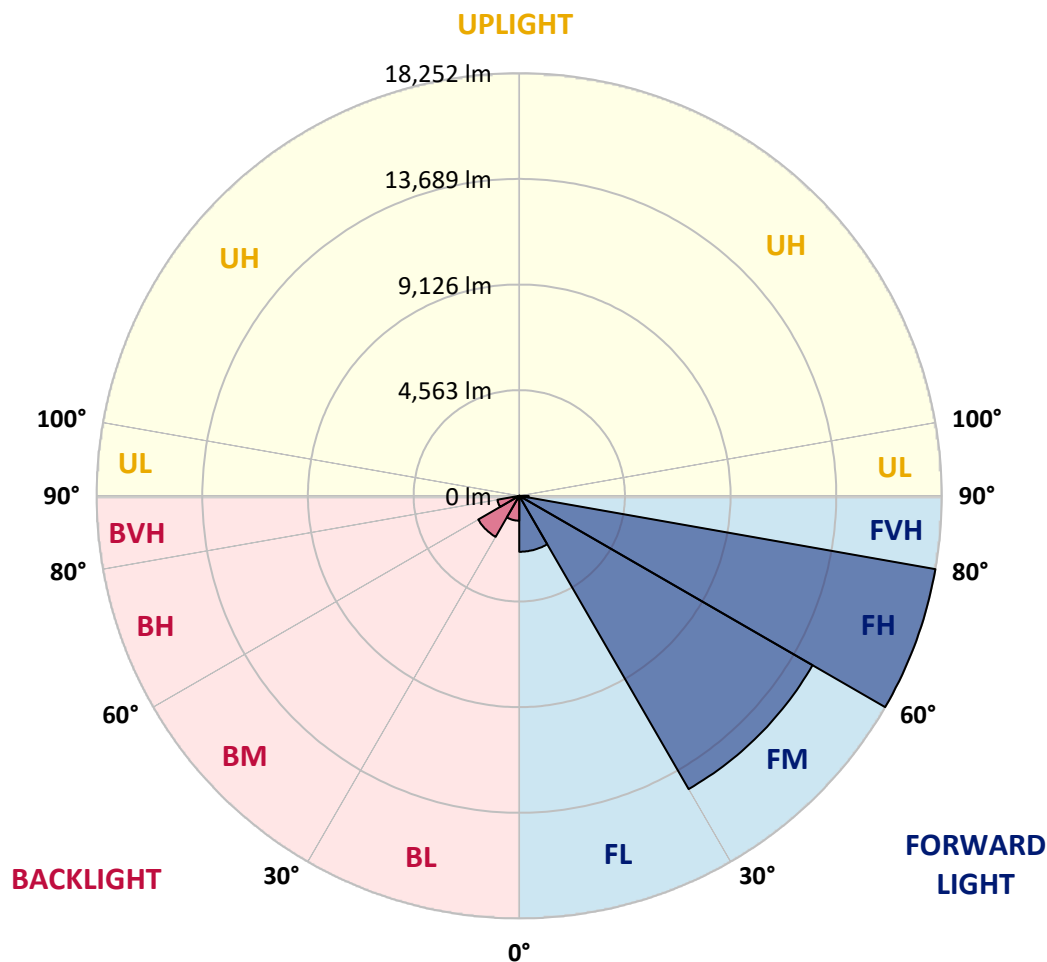
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2416.9	6.1			
FM	(30°-60°)	14626.9	36.8			
FH	(60°-80°)	18252.2	45.9			G5
FVH	(80°-90°)	398.8	1.0			G3/500
BL	(0°-30°)	1075.9	2.7	B3/2500		
BM	(30°-60°)	2045.7	5.1	B2/2500		
BH	(60°-80°)	957.2	2.4	B2/1000		G2/1000
BVH	(80°-90°)	3.4	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°	45°	46°	55°	65°	75°	85°
0°	3985.5	3985.5	3985.5	3985.5	3985.5	3985.5	3985.5	3985.5	3985.5	3985.5	3985.5
2.5°	4427.5	4421.9	4395.8	4384.6	4321.2	4283.9	4269.0	4222.4	4155.2	4088.1	4013.5
5°	4931.1	4929.2	4880.7	4834.1	4714.7	4602.8	4582.3	4474.1	4323.1	4181.3	4039.6
7.5°	5445.8	5421.6	5373.1	5283.5	5110.1	4931.1	4914.3	4761.3	4546.9	4341.7	4138.4
10°	5882.2	5867.3	5803.9	5667.7	5464.5	5261.2	5240.7	5052.3	4809.8	4558.1	4298.8
12.5°	6221.6	6210.5	6126.5	5956.8	5740.5	5529.7	5501.8	5333.9	5074.7	4793.1	4487.2
15°	6428.7	6423.1	6320.5	6139.6	5927.0	5744.2	5720.0	5572.6	5332.0	5037.4	4692.3
17.5°	6477.1	6479.0	6372.7	6189.9	6014.6	5884.1	5865.4	5753.5	5552.1	5259.3	4897.5
20°	6369.0	6391.4	6296.2	6137.7	6029.5	5960.5	5945.6	5878.5	5708.8	5432.7	5061.6
22.5°	6216.0	6227.2	6162.0	6055.7	6010.9	6024.0	6016.5	5979.2	5835.6	5581.9	5223.9
25°	6122.8	6122.8	6083.6	5994.1	6024.0	6104.1	6106.0	6098.6	5984.8	5764.7	5421.6
27.5°	6119.1	6107.9	6063.1	5996.0	6078.0	6201.1	6208.6	6258.9	6188.1	5986.7	5667.7
30°	6268.3	6255.2	6160.1	6072.4	6176.9	6309.3	6327.9	6438.0	6402.5	6227.2	5941.9
32.5°	6617.0	6570.4	6359.7	6216.0	6294.4	6452.9	6477.1	6652.5	6708.4	6523.8	6206.7
35°	7094.5	6947.1	6643.1	6488.3	6495.8	6661.8	6684.2	6941.5	7107.5	6796.1	6411.9
37.5°	7752.8	7680.1	7185.8	6771.8	6805.4	7057.2	7122.4	7402.2	7355.6	6945.3	6645.0
40°	9196.3	9082.6	8556.6	7566.3	7101.9	7377.9	7398.5	7547.7	7551.4	7282.8	7129.9
42.5°	11162.0	11115.4	10561.5	9008.0	7685.7	7592.4	7629.7	7881.5	8163.1	7995.3	7987.8
45°	13338.5	13314.2	12726.8	10921.4	8866.2	8295.5	8342.1	8679.7	9218.7	9256.0	9492.9
47.5°	15089.7	15078.5	14741.0	13056.9	10673.4	9487.3	9502.2	9860.3	10807.7	11275.8	11654.4
50°	16686.2	16740.2	16473.6	15367.6	13135.2	11354.1	11318.7	11557.4	13079.3	13845.8	14315.7
52.5°	18905.5	18982.0	18234.1	17523.5	15718.2	13670.5	13642.5	13892.4	15809.6	16384.0	16468.0
55°	20865.6	20735.1	20143.9	19938.7	18868.2	16531.4	16523.9	16744.0	18450.5	18694.8	18849.6
57.5°	21731.0	21680.6	21966.0	22436.0	22167.4	19912.6	19895.8	19728.0	20813.4	20839.5	21315.1
60°	22277.4	22339.0	23213.7	24662.8	25332.3	23551.2	23443.1	22419.2	23070.1	23012.2	23521.4
62.5°	21867.1	21988.4	23562.4	25977.6	27700.9	26727.3	26574.4	24884.7	24998.5	24798.9	25272.6
65°	19688.8	19877.2	22456.5	25729.6	28875.8	29209.6	29054.8	27061.2	26529.6	26201.4	25938.4
67.5°	15986.8	16098.7	18791.7	23571.7	28346.1	30690.5	30658.7	28969.1	27685.9	25964.5	23924.2
69°	13211.7	13321.7	15914.1	21300.2	27180.5	31007.5	31069.0	29580.8	27465.9	24524.8	21197.6
70°	11190.0	11307.5	13722.7	19353.1	25828.4	30860.2	30970.2	29523.0	26835.5	22857.4	18804.8
72.5°	5869.2	5969.9	8448.5	13332.9	21055.9	28336.8	28670.7	27027.6	22747.4	16600.4	11119.1
75°	1844.5	1902.3	3299.2	6969.5	14416.5	22033.1	22109.6	21201.3	16152.8	9131.0	4630.8
77.5°	703.1	686.3	1098.5	2568.1	7288.4	13873.7	14341.9	13249.0	8476.4	3228.3	1068.6
80°	378.6	380.5	570.7	1063.1	3118.3	7129.9	7525.3	6421.2	3012.0	1007.1	246.2
82.5°	164.1	171.6	320.8	563.2	1432.3	2629.7	2827.3	2353.6	1150.7	677.0	91.4
85°	35.4	39.2	154.8	305.9	583.7	738.5	774.0	762.8	732.9	525.9	35.4
87.5°	0.0	0.0	69.0	110.0	147.3	167.9	147.3	192.1	404.7	354.4	18.7
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°	3985.5	3985.5	3985.5	3985.5	3985.5	3985.5	3985.5	3985.5	3985.5	3985.5	3985.5
2.5°	3989.2	3955.7	3897.9	3834.4	3789.7	3743.1	3705.8	3689.0	3670.3	3657.3	3674.1
5°	3981.8	3916.5	3804.6	3696.4	3618.1	3554.7	3502.5	3482.0	3461.4	3446.5	3444.7
7.5°	4047.1	3955.7	3784.1	3625.6	3504.3	3418.5	3347.7	3317.8	3293.6	3282.4	3273.1
10°	4172.0	4054.5	3825.1	3618.1	3461.4	3316.0	3163.0	3045.5	2969.1	2933.6	2920.6
12.5°	4334.3	4186.9	3903.4	3657.3	3429.7	3150.0	2825.5	2545.7	2364.8	2305.1	2269.7
15°	4524.5	4341.7	4006.0	3707.6	3314.1	2803.1	2252.9	1887.4	1719.5	1686.0	1648.7
17.5°	4707.3	4505.8	4129.1	3716.9	3060.5	2239.9	1650.5	1402.5	1337.2	1359.6	1365.2
20°	4867.7	4668.1	4250.3	3634.9	2599.8	1680.4	1277.5	1216.0	1240.2	1283.1	1290.6
22.5°	5029.9	4824.8	4362.2	3418.5	2010.5	1275.7	1150.7	1165.6	1189.9	1232.8	1240.2
25°	5227.6	5015.0	4466.7	3021.3	1508.8	1085.4	1092.9	1115.3	1139.5	1178.7	1182.4
27.5°	5455.1	5255.6	4535.7	2504.7	1119.0	997.8	1022.0	1055.6	1079.8	1117.1	1124.6
30°	5757.3	5572.6	4558.1	1969.4	938.1	919.4	930.6	971.7	1007.1	1040.7	1046.3
32.5°	6040.7	5885.9	4483.5	1486.4	869.1	846.7	846.7	871.0	912.0	943.7	951.2
35°	6301.8	6201.1	4244.7	1087.3	816.9	779.6	760.9	760.9	787.0	813.1	820.6
37.5°	6646.9	6643.1	3858.7	867.2	766.5	723.6	684.5	654.6	645.3	650.9	654.6
40°	7238.1	7243.7	3355.1	777.7	723.6	665.8	606.1	552.0	501.7	484.9	483.0
42.5°	8161.2	8077.3	2827.3	734.8	686.3	606.1	516.6	443.9	365.5	341.3	339.4
45°	9627.1	9129.2	2267.8	695.6	647.2	539.0	427.1	328.2	264.8	246.2	246.2
47.5°	11762.6	10511.1	1756.8	652.8	594.9	462.5	322.6	236.9	194.0	184.6	186.5
50°	13970.7	11865.1	1346.5	598.7	531.5	382.3	238.7	171.6	147.3	147.3	149.2
52.5°	15929.0	12857.3	1050.0	540.9	453.2	300.3	180.9	134.3	123.1	121.2	123.1
55°	17762.3	13497.0	803.8	473.7	359.9	223.8	138.0	110.0	102.6	98.8	97.0
57.5°	19530.3	13814.1	602.4	382.3	261.1	162.3	110.0	93.3	85.8	80.2	78.3
60°	20707.1	13556.7	414.0	281.6	180.9	117.5	91.4	80.2	70.9	65.3	63.4
62.5°	21371.0	12853.6	266.7	203.3	128.7	87.7	72.7	67.1	54.1	48.5	48.5
65°	21102.5	11693.6	186.5	145.5	93.3	65.3	54.1	54.1	39.2	31.7	29.8
67.5°	18700.4	9878.9	141.7	108.2	67.1	48.5	41.0	46.6	24.2	14.9	14.9
69°	16089.4	8187.4	121.2	89.5	56.0	39.2	35.4	42.9	16.8	11.2	9.3
70°	13983.8	7062.8	110.0	78.3	46.6	33.6	31.7	41.0	16.8	9.3	7.5
72.5°	8366.4	3938.9	83.9	56.0	29.8	26.1	26.1	46.6	16.8	9.3	7.5
75°	3381.2	1387.6	61.5	39.2	22.4	22.4	31.7	59.7	14.9	7.5	5.6
77.5°	766.5	304.0	35.4	24.2	14.9	22.4	37.3	46.6	9.3	3.7	0.0
80°	186.5	74.6	22.4	14.9	9.3	16.8	28.0	26.1	1.9	0.0	0.0
82.5°	61.5	26.1	9.3	7.5	1.9	5.6	13.1	7.5	0.0	0.0	0.0
85°	26.1	14.9	3.7	1.9	0.0	0.0	1.9	0.0	0.0	0.0	0.0
87.5°	16.8	5.6	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)