

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: P322972

Luminaire Tested: **GAN-SA8C-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322972
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-SA8C-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1050mA 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: 41085 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

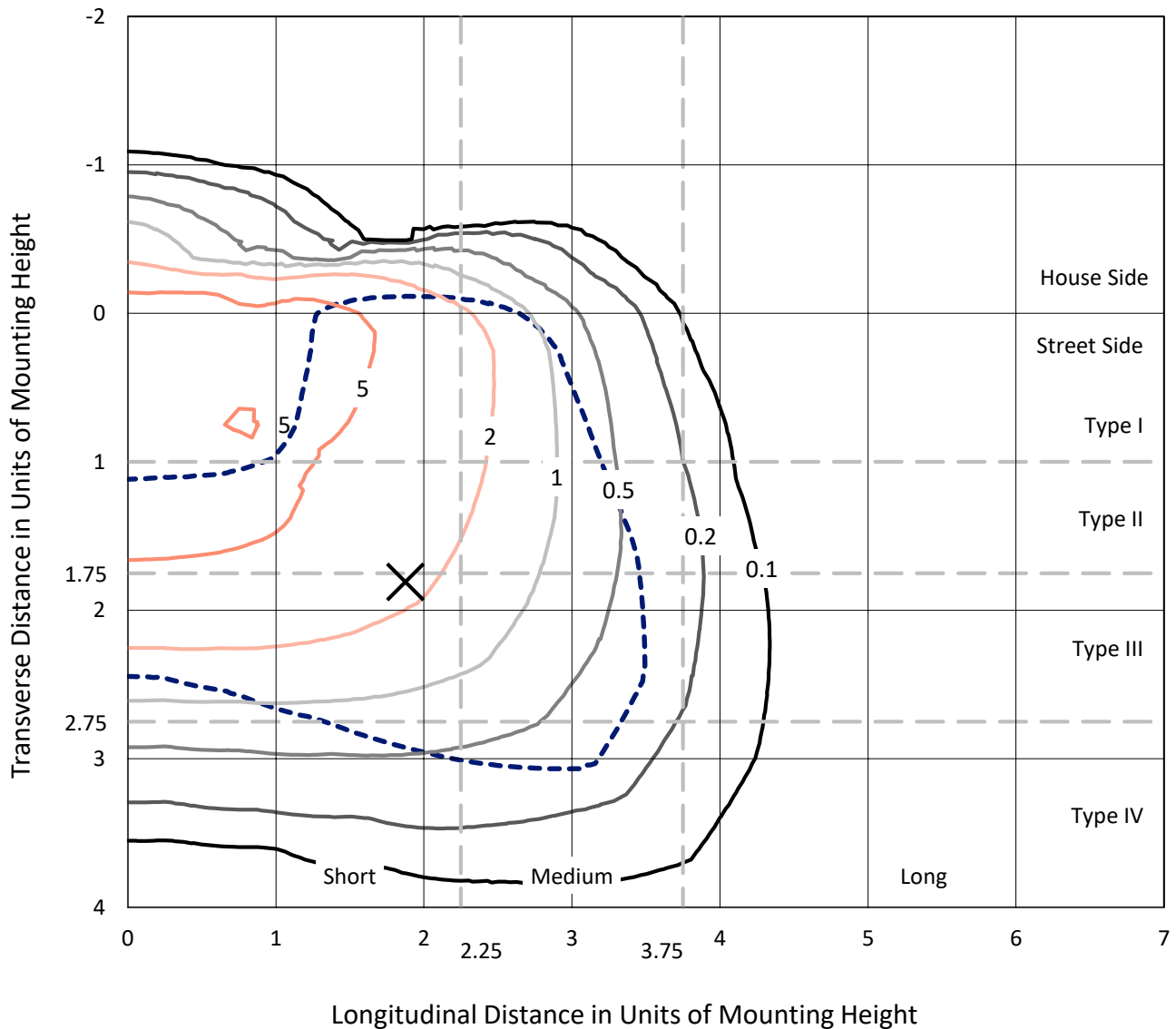
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322972
CATALOG NUMBER: GAN-SA8C-760-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

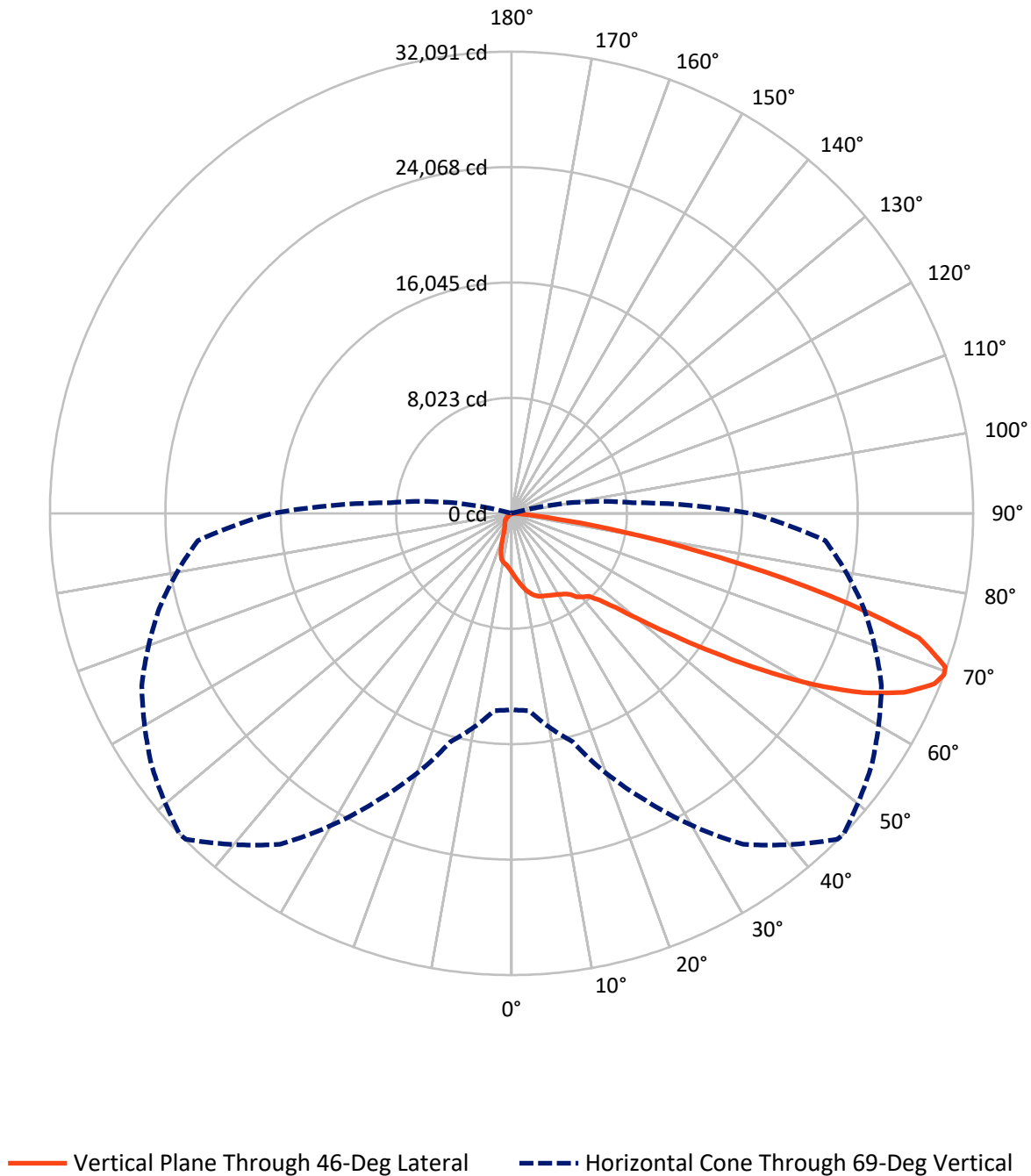
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
Type IV - Short - N/A

REPORT NUMBER: P322972
CATALOG NUMBER: GAN-SA8C-760-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4216.4	0.0	4216.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	36868.6	0.0	36868.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	41085.0	0.0	41085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.7	1.0
10°-20°	1243.0	3.0
20°-30°	1954.9	4.8
30°-40°	2803.4	6.8
40°-50°	4845.2	11.8
50°-60°	9572.2	23.3
60°-70°	13378.0	32.6
70°-80°	6463.0	15.7
80°-90°	415.4	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°	41085.0	100.0
0°-180°	41085.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322972

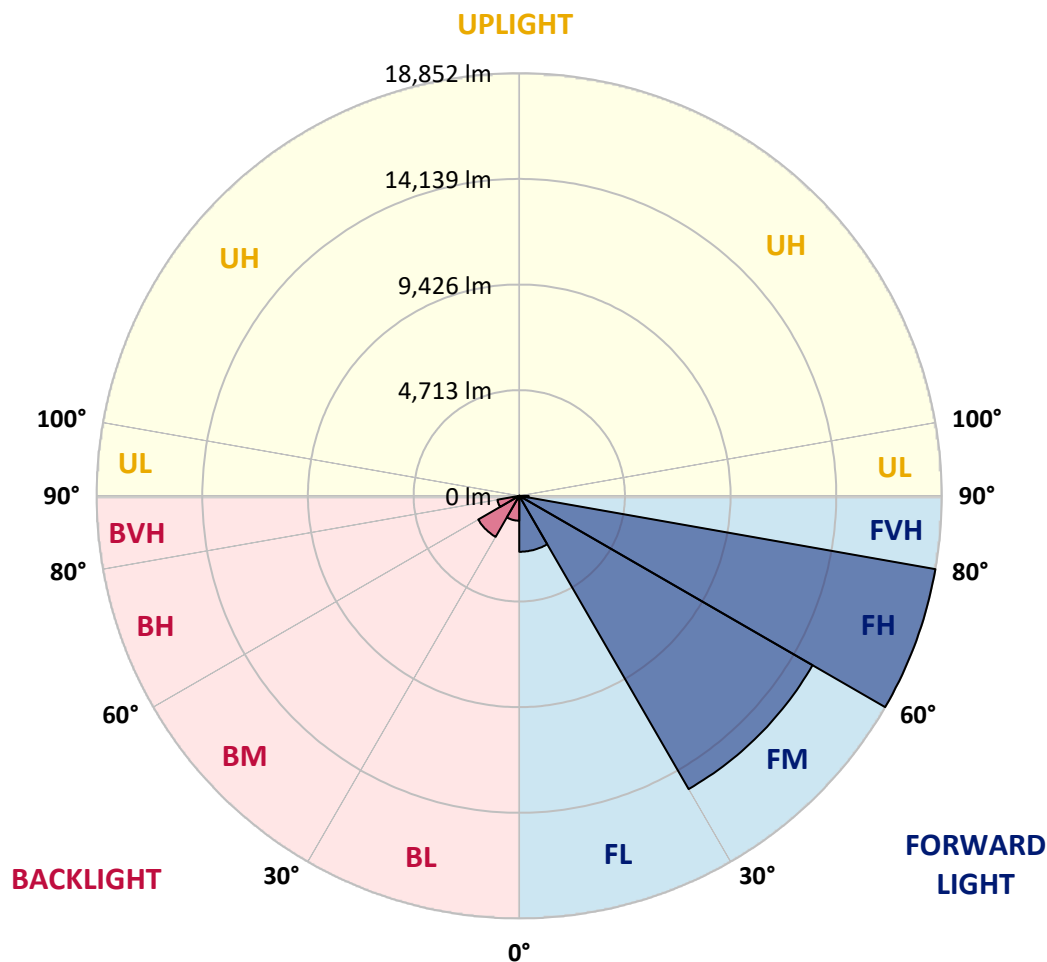
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2496.4	6.1			
FM	(30°-60°)	15107.9	36.8			
FH	(60°-80°)	18852.4	45.9			G5
FVH	(80°-90°)	411.9	1.0			G3/500
BL	(0°-30°)	1111.3	2.7	B3/2500		
BM	(30°-60°)	2113.0	5.1	B2/2500		
BH	(60°-80°)	988.7	2.4	B2/1000		G2/1000
BVH	(80°-90°)	3.5	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 IV Short





REPORT NUMBER: P322972

CATALOG NUMBER: GAN-SA8C-760-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6
2.5°	4573.1	4567.3	4540.4	4528.8	4463.3	4424.8	4409.4	4361.2	4291.9	4222.5	4145.5
5°	5093.2	5091.3	5041.2	4993.0	4869.8	4754.2	4733.0	4621.3	4465.2	4318.8	4172.4
7.5°	5624.9	5599.8	5549.8	5457.3	5278.1	5093.2	5075.9	4917.9	4696.4	4484.5	4274.5
10°	6075.6	6060.2	5994.7	5854.1	5644.1	5434.2	5413.0	5218.4	4968.0	4707.9	4440.2
12.5°	6426.2	6414.7	6328.0	6152.7	5929.2	5711.6	5682.7	5509.3	5241.5	4950.7	4634.7
15°	6640.1	6634.3	6528.3	6341.5	6121.9	5933.1	5908.0	5755.9	5507.4	5203.0	4846.6
17.5°	6690.1	6692.1	6582.3	6393.5	6212.4	6077.6	6058.3	5942.7	5734.7	5432.2	5058.5
20°	6578.4	6601.5	6503.3	6339.5	6227.8	6156.5	6141.1	6071.8	5896.5	5611.4	5228.1
22.5°	6420.5	6432.0	6364.6	6254.8	6208.6	6222.0	6214.3	6175.8	6027.5	5765.5	5395.6
25°	6324.1	6324.1	6283.7	6191.2	6222.0	6304.9	6306.8	6299.1	6181.6	5954.3	5599.8
27.5°	6320.3	6308.7	6262.5	6193.1	6277.9	6405.0	6412.7	6464.8	6391.6	6183.5	5854.1
30°	6474.4	6460.9	6362.7	6272.1	6380.0	6516.8	6536.0	6649.7	6613.1	6432.0	6137.3
32.5°	6834.6	6786.5	6568.8	6420.5	6501.4	6665.1	6690.1	6871.2	6929.0	6738.3	6410.8
35°	7327.8	7175.6	6861.6	6701.7	6709.4	6880.8	6904.0	7169.8	7341.2	7019.5	6622.7
37.5°	8007.7	7932.6	7422.1	6994.5	7029.2	7289.2	7356.6	7645.6	7597.4	7173.6	6863.5
40°	9498.7	9381.2	8838.0	7815.1	7335.5	7620.6	7641.7	7795.9	7799.7	7522.3	7364.4
42.5°	11529.1	11480.9	10908.8	9304.2	7938.4	7842.1	7880.6	8140.7	8431.5	8258.2	8250.5
45°	13777.1	13752.1	13145.3	11280.6	9157.8	8568.3	8616.5	8965.1	9521.8	9560.4	9805.0
47.5°	15585.9	15574.4	15225.7	13486.2	11024.4	9799.2	9814.6	10184.5	11163.1	11646.6	12037.6
50°	17234.9	17290.7	17015.3	15872.9	13567.1	11727.5	11690.9	11937.5	13509.3	14301.1	14786.5
52.5°	19527.2	19606.2	18833.7	18099.8	16235.1	14120.0	14091.1	14349.2	16329.5	16922.8	17009.5
55°	21551.8	21416.9	20806.3	20594.4	19488.7	17075.0	17067.3	17294.6	19057.2	19309.5	19469.4
57.5°	22445.6	22393.6	22688.3	23173.7	22896.3	20567.4	20550.1	20376.7	21497.8	21524.8	22016.0
60°	23010.0	23073.6	23977.0	25473.8	26165.3	24325.7	24213.9	23156.4	23828.7	23769.0	24294.9
62.5°	22586.2	22711.4	24337.2	26831.8	28611.8	27606.2	27448.3	25703.0	25820.5	25614.4	26103.7
65°	20336.2	20530.8	23194.9	26575.6	29825.3	30170.2	30010.3	27951.0	27402.0	27063.0	26791.4
67.5°	16512.5	16628.1	19409.7	24346.9	29278.3	31699.7	31666.9	29921.7	28596.3	26818.3	24710.9
69°	13646.1	13759.8	16437.4	22000.6	28074.3	32027.1	32090.7	30553.5	28369.0	25331.2	21894.6
70°	11558.0	11679.3	14173.9	19989.5	26677.7	31875.0	31988.6	30493.8	27717.9	23609.1	19423.2
72.5°	6062.2	6166.2	8726.3	13771.3	21748.2	29268.6	29613.4	27916.3	23495.4	17146.2	11484.8
75°	1905.1	1964.9	3407.7	7198.7	14890.5	22757.6	22836.6	21898.5	16683.9	9431.3	4783.1
77.5°	726.2	708.9	1134.6	2652.6	7528.1	14330.0	14813.5	13684.6	8755.2	3334.5	1103.8
80°	391.0	393.0	589.5	1098.0	3220.8	7364.4	7772.7	6632.3	3111.0	1040.2	254.3
82.5°	169.5	177.2	331.3	581.8	1479.4	2716.1	2920.3	2431.0	1188.5	699.3	94.4
85°	36.6	40.5	159.9	315.9	602.9	762.8	799.4	787.9	757.0	543.2	36.6
87.5°	0.0	0.0	71.3	113.7	152.2	173.4	152.2	198.4	418.0	366.0	19.3
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°	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6	4116.6
2.5°	4120.4	4085.7	4026.0	3960.5	3914.3	3866.1	3827.6	3810.3	3791.0	3777.5	3794.9
5°	4112.7	4045.3	3929.7	3818.0	3737.1	3671.6	3617.6	3596.5	3575.3	3559.9	3557.9
7.5°	4180.1	4085.7	3908.5	3744.8	3619.6	3531.0	3457.8	3426.9	3401.9	3390.3	3380.7
10°	4309.2	4187.8	3950.9	3737.1	3575.3	3425.0	3267.1	3145.7	3066.7	3030.1	3016.6
12.5°	4476.8	4324.6	4031.8	3777.5	3542.5	3253.6	2918.4	2629.4	2442.6	2380.9	2344.3
15°	4673.3	4484.5	4137.8	3829.5	3423.1	2895.3	2327.0	1949.4	1776.1	1741.4	1702.9
17.5°	4862.1	4654.0	4264.9	3839.2	3161.1	2313.5	1704.8	1448.6	1381.2	1404.3	1410.1
20°	5027.7	4821.6	4390.1	3754.4	2685.3	1735.6	1319.5	1256.0	1281.0	1325.3	1333.0
22.5°	5195.3	4983.4	4505.7	3531.0	2076.6	1317.6	1188.5	1204.0	1229.0	1273.3	1281.0
25°	5399.5	5179.9	4613.6	3120.7	1558.4	1121.1	1128.8	1151.9	1177.0	1217.4	1221.3
27.5°	5634.5	5428.4	4684.8	2587.1	1155.8	1030.6	1055.6	1090.3	1115.3	1153.9	1161.6
30°	5946.6	5755.9	4707.9	2034.2	968.9	949.7	961.2	1003.6	1040.2	1074.9	1080.7
32.5°	6239.4	6079.5	4630.9	1535.3	897.7	874.6	874.6	899.6	942.0	974.7	982.4
35°	6509.1	6405.0	4384.3	1123.0	843.7	805.2	785.9	785.9	812.9	839.9	847.6
37.5°	6865.4	6861.6	3985.6	895.7	791.7	747.4	707.0	676.1	666.5	672.3	676.1
40°	7476.1	7481.9	3465.5	803.3	747.4	687.7	626.1	570.2	518.2	500.8	498.9
42.5°	8429.6	8342.9	2920.3	759.0	708.9	626.1	533.6	458.5	377.6	352.5	350.6
45°	9943.7	9429.4	2342.4	718.5	668.4	556.7	441.1	339.0	273.5	254.3	254.3
47.5°	12149.4	10856.8	1814.6	674.2	614.5	477.7	333.3	244.6	200.3	190.7	192.6
50°	14430.1	12255.3	1390.8	618.4	549.0	394.9	246.6	177.2	152.2	152.2	154.1
52.5°	16452.8	13280.1	1084.5	558.6	468.1	310.1	186.9	138.7	127.1	125.2	127.1
55°	18346.4	13940.8	830.2	489.3	371.8	231.2	142.5	113.7	105.9	102.1	100.2
57.5°	20172.5	14268.3	622.2	394.9	269.7	167.6	113.7	96.3	88.6	82.8	80.9
60°	21388.0	14002.5	427.6	290.9	186.9	121.4	94.4	82.8	73.2	67.4	65.5
62.5°	22073.8	13276.3	275.5	210.0	132.9	90.5	75.1	69.3	55.9	50.1	50.1
65°	21796.4	12078.1	192.6	150.3	96.3	67.4	55.9	55.9	40.5	32.7	30.8
67.5°	19315.3	10203.8	146.4	111.7	69.3	50.1	42.4	48.2	25.0	15.4	15.4
69°	16618.4	8456.6	125.2	92.5	57.8	40.5	36.6	44.3	17.3	11.6	9.6
70°	14443.6	7295.0	113.7	80.9	48.2	34.7	32.7	42.4	17.3	9.6	7.7
72.5°	8641.5	4068.4	86.7	57.8	30.8	27.0	27.0	48.2	17.3	9.6	7.7
75°	3492.4	1433.2	63.6	40.5	23.1	23.1	32.7	61.6	15.4	7.7	5.8
77.5°	791.7	314.0	36.6	25.0	15.4	23.1	38.5	48.2	9.6	3.9	0.0
80°	192.6	77.1	23.1	15.4	9.6	17.3	28.9	27.0	1.9	0.0	0.0
82.5°	63.6	27.0	9.6	7.7	1.9	5.8	13.5	7.7	0.0	0.0	0.0
85°	27.0	15.4	3.9	1.9	0.0	0.0	1.9	0.0	0.0	0.0	0.0
87.5°	17.3	5.8	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)