

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: P319779

Luminaire Tested: **GAN-SA5D-760-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-760-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38783 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

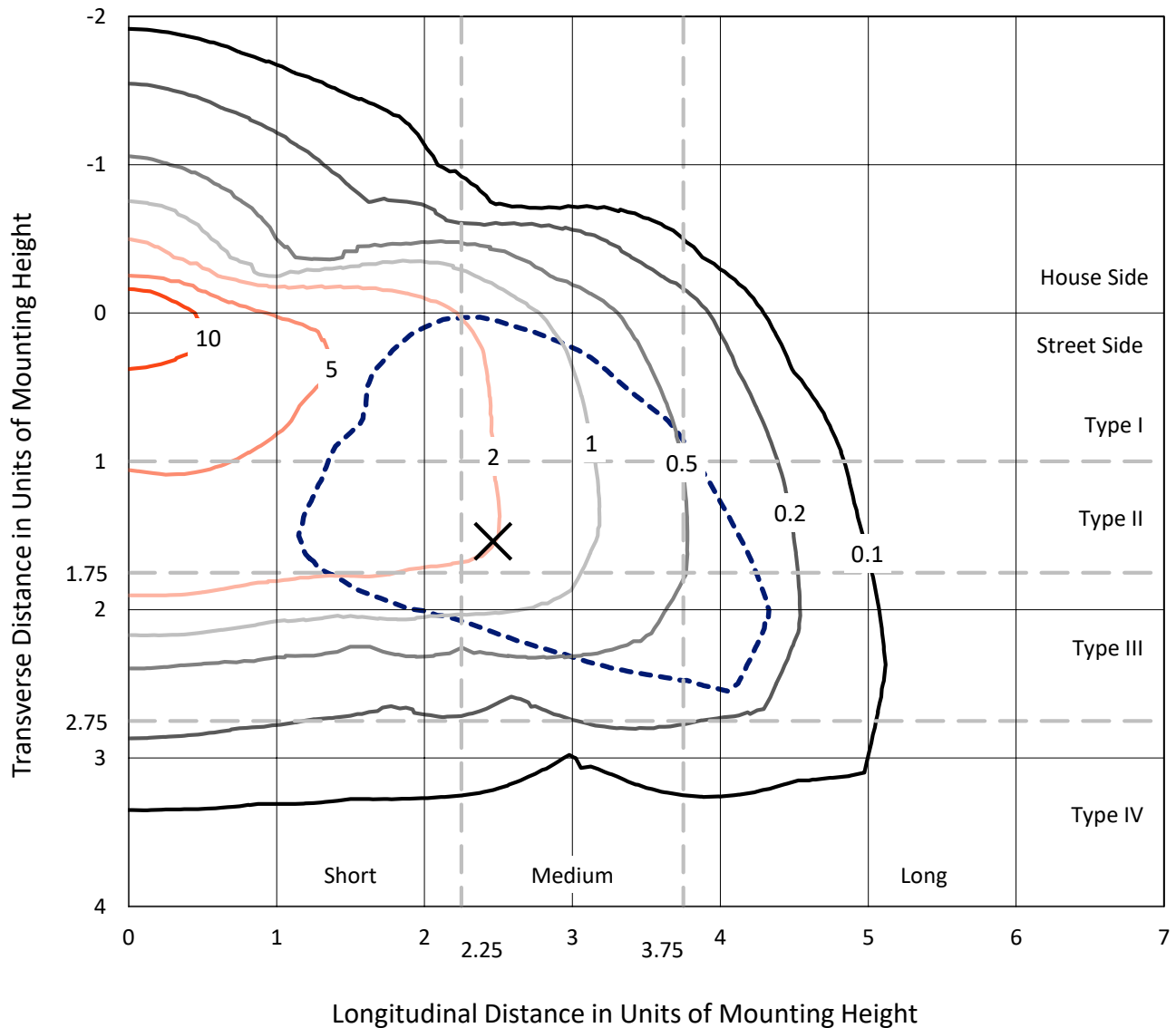


REPORT NUMBER: P319779

CATALOG NUMBER: GAN-SA5D-760-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

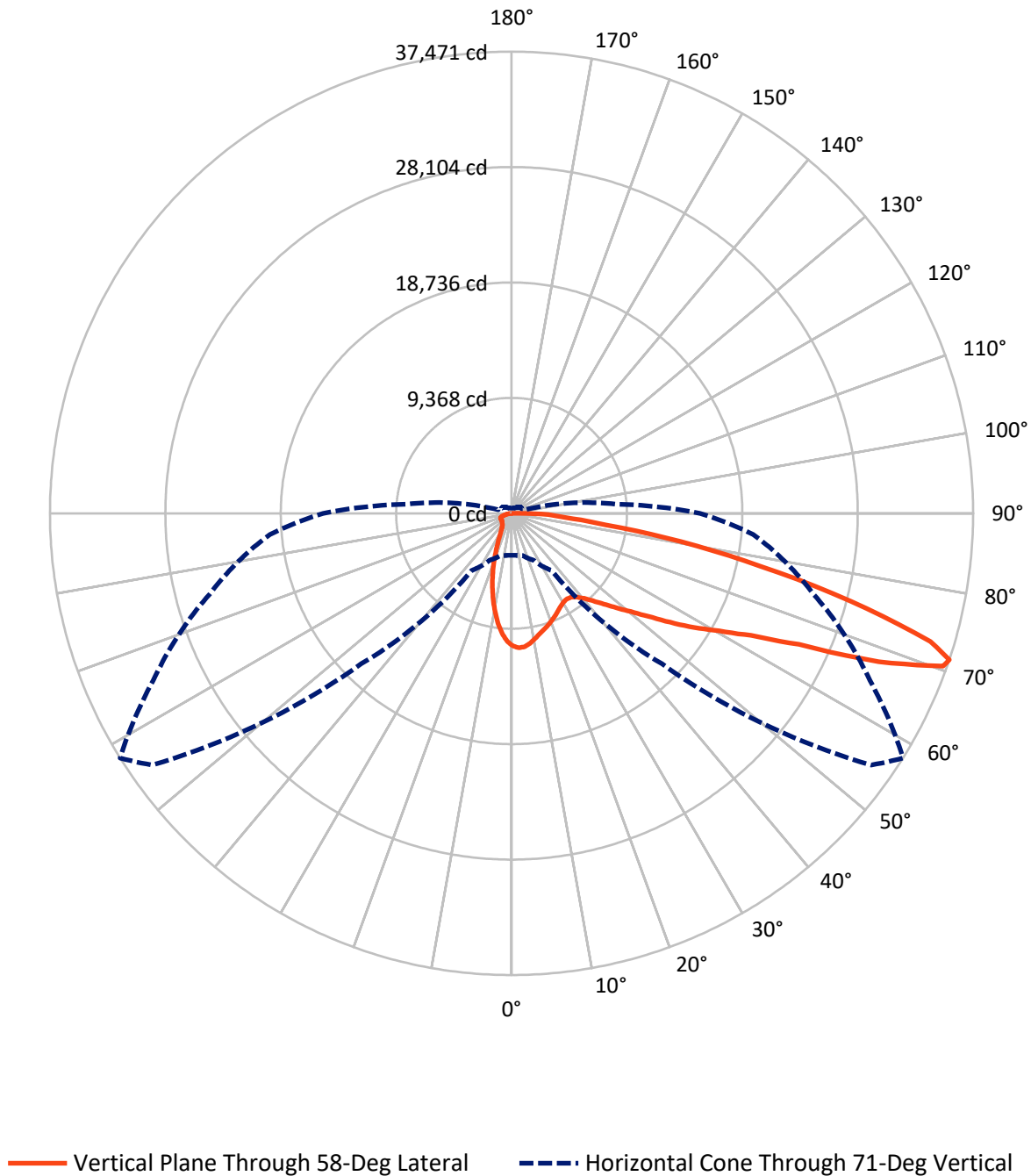
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
Type III - Medium - N/A

REPORT NUMBER: P319779
CATALOG NUMBER: GAN-SA5D-760-U-SL3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5798.3	0.0	5798.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	32984.7	0.0	32984.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	38783.0	0.0	38783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	927.0	2.4
10°-20°	2061.3	5.3
20°-30°	2619.7	6.8
30°-40°	3337.0	8.6
40°-50°	4732.0	12.2
50°-60°	7323.0	18.9
60°-70°	9969.4	25.7
70°-80°	6650.7	17.1
80°-90°	1162.8	3.0
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°	38783.0	100.0
0°-180°	38783.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319779

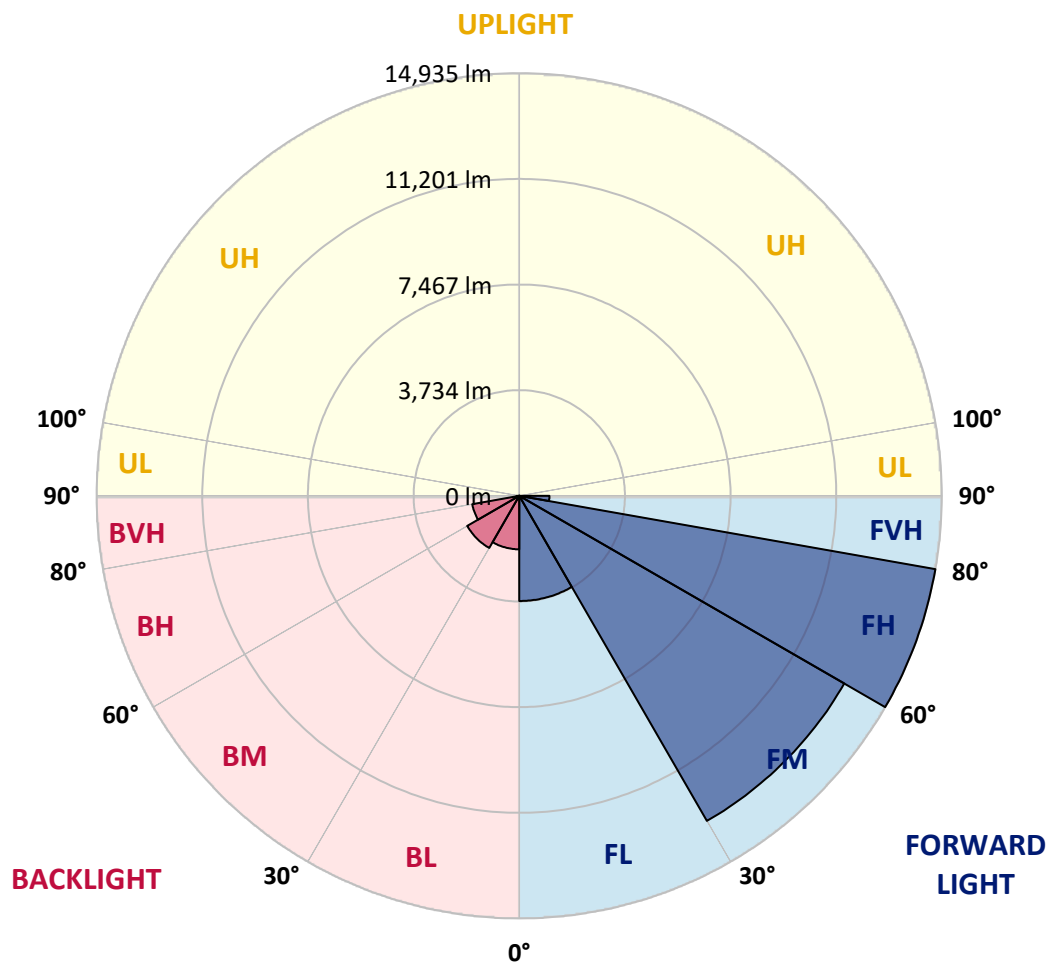
CATALOG NUMBER: GAN-SA5D-760-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3718.0	9.6			
FM	(30°-60°)	13265.7	34.2			
FH	(60°-80°)	14934.9	38.5			G5
FVH	(80°-90°)	1066.2	2.7			G5
BL	(0°-30°)	1890.1	4.9	B3/2500		
BM	(30°-60°)	2126.4	5.5	B2/2500		
BH	(60°-80°)	1685.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	96.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





REPORT NUMBER: P319779

CATALOG NUMBER: GAN-SA5D-760-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10745.5	10745.5	10745.5	10745.5	10745.5	10745.5	10745.5	10745.5	10745.5	10745.5	10745.5
2.5°	11030.5	11015.7	11021.1	11010.3	10984.6	10958.9	10921.1	10927.9	10875.2	10796.8	10699.6
5°	10822.5	10817.1	10857.6	10880.6	10899.5	10884.6	10873.8	10887.3	10810.3	10702.3	10533.4
7.5°	10386.1	10326.7	10378.0	10455.0	10528.0	10583.4	10656.3	10665.8	10617.1	10503.7	10282.1
10°	9766.0	9709.3	9785.0	9905.2	10051.1	10183.5	10330.7	10357.8	10367.2	10264.5	9995.7
12.5°	9123.0	9079.8	9155.4	9324.3	9566.1	9770.1	10005.2	10045.7	10129.4	10060.6	9730.9
15°	8547.5	8531.3	8623.1	8789.3	9067.6	9379.7	9718.8	9793.1	9934.9	9911.9	9524.2
17.5°	8050.3	8046.3	8116.5	8290.8	8598.8	8993.3	9433.7	9559.3	9770.1	9797.1	9354.0
20°	7680.2	7672.1	7720.7	7849.0	8166.5	8613.7	9125.7	9298.6	9602.6	9697.1	9178.4
22.5°	7481.6	7480.2	7481.6	7542.4	7801.8	8217.8	8825.8	9036.5	9439.1	9617.4	8983.8
25°	7447.8	7443.8	7414.0	7407.3	7554.5	7886.9	8528.6	8760.9	9283.8	9562.0	8798.8
27.5°	7535.6	7541.0	7501.8	7438.3	7468.1	7669.4	8270.5	8519.1	9159.5	9551.2	8670.4
30°	7718.0	7715.3	7681.5	7615.3	7557.2	7588.3	8086.8	8335.4	9075.7	9598.5	8582.6
32.5°	7919.3	7934.1	7927.4	7890.9	7804.5	7680.2	8031.4	8274.6	9051.4	9712.0	8544.8
35°	8161.1	8177.3	8226.0	8254.3	8153.0	7953.1	8150.3	8361.1	9121.6	9925.5	8605.6
37.5°	8390.8	8432.7	8569.1	8689.3	8602.9	8380.0	8466.4	8616.4	9339.1	10261.8	8769.0
40°	8655.6	8692.0	8914.9	9170.3	9156.8	8925.7	8975.7	9075.7	9722.8	10744.1	9064.9
42.5°	8916.3	8989.2	9312.1	9674.2	9778.2	9574.2	9653.9	9706.6	10263.2	11383.1	9581.0
45°	9263.5	9341.8	9790.4	10226.7	10469.9	10355.1	10482.0	10502.3	10942.7	12253.1	10330.7
47.5°	9789.0	9878.2	10401.0	10859.0	11230.5	11242.6	11452.0	11443.9	11791.1	13248.8	11275.1
50°	10607.7	10736.0	11164.3	11592.5	12043.7	12295.0	12574.7	12535.5	12808.4	14309.3	12362.6
52.5°	11680.3	11739.8	12057.3	12373.4	12934.0	13497.4	13898.6	13863.5	13962.1	15399.5	13597.3
55°	12792.2	12836.8	12967.8	13140.7	13894.6	14813.2	15661.6	15606.2	15356.3	16531.6	14817.3
57.5°	13791.9	13882.4	13972.9	14044.5	14861.8	16188.5	17465.1	17469.2	16869.4	17752.9	16077.7
60°	13947.2	14026.9	14625.4	15190.1	16516.8	18023.1	19395.6	19355.1	18435.1	19078.2	17482.7
62.5°	12328.8	12508.5	13508.2	15010.4	18110.9	21378.8	21858.4	21808.4	20307.5	20711.5	19118.7
65°	8835.2	9039.2	10245.6	12503.1	17338.1	25076.4	26303.1	25630.3	22860.8	22720.3	21034.3
67.5°	5097.1	5145.8	5668.6	7481.6	13201.5	25269.6	33083.5	32141.9	26825.9	24999.4	21971.9
70°	3769.2	3767.8	3892.1	4604.0	7143.8	20623.7	36308.2	37152.6	31000.3	25749.2	20646.6
71°	3408.5	3412.5	3551.7	4190.7	5657.8	17262.5	35623.3	37471.4	32100.0	25379.0	19687.4
72.5°	2915.4	2928.9	3122.1	3758.4	4759.4	11904.6	32672.8	35558.4	32621.5	24465.8	18186.5
75°	2211.5	2242.6	2510.1	3168.0	4350.1	6037.4	23979.4	28394.3	28979.3	21588.2	13513.6
77.5°	1577.9	1613.0	1915.7	2664.1	4135.3	4550.0	16058.8	20711.5	21326.2	13835.1	6095.5
80°	997.0	1038.9	1267.2	2119.6	3885.3	4320.3	10091.6	13921.6	11629.0	4427.1	1550.9
82.5°	585.0	617.4	786.3	1384.7	3173.4	4160.9	5937.4	7716.6	4525.7	1337.4	705.2
85°	339.1	353.9	490.4	882.2	2304.7	3927.2	4362.2	4313.6	1964.3	653.9	333.7
87.5°	158.1	175.6	290.5	460.7	1279.4	2846.5	3447.6	2978.9	1221.3	306.7	156.7
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°	10745.5	10745.5	10745.5	10745.5	10745.5	10745.5	10745.5	10745.5	10745.5	10745.5	10745.5
2.5°	10652.3	10629.3	10533.4	10448.3	10359.1	10242.9	10114.6	10098.4	10020.0	10034.9	10007.9
5°	10441.5	10383.4	10152.4	9943.0	9695.8	9474.2	9233.8	9123.0	8963.6	8952.8	8912.2
7.5°	10140.3	10032.2	9674.2	9277.0	8879.8	8501.5	8127.3	7881.5	7630.2	7523.5	7514.0
10°	9801.2	9617.4	9090.6	8502.9	7930.1	7377.6	6842.6	6446.7	6090.1	5921.2	5914.5
12.5°	9479.6	9208.1	8485.3	7685.6	6902.0	6186.0	5452.4	4932.3	4485.2	4335.2	4271.7
15°	9206.7	8824.4	7896.3	6873.7	5922.6	4928.3	4093.4	3546.3	3132.9	2989.7	2962.6
17.5°	8942.0	8450.2	7292.4	6053.6	4904.0	3811.0	2974.8	2568.2	2348.0	2289.9	2288.5
20°	8678.5	8065.2	6661.6	5214.7	3919.1	2850.5	2287.2	2104.8	2030.5	2023.7	2012.9
22.5°	8380.0	7657.2	5998.2	4373.0	3058.6	2241.2	1944.0	1871.1	1861.6	1885.9	1885.9
25°	8100.3	7251.9	5325.5	3549.0	2379.0	1869.7	1736.0	1721.1	1746.8	1790.0	1794.1
27.5°	7839.6	6861.5	4668.9	2816.7	1906.2	1646.8	1591.4	1609.0	1654.9	1704.9	1706.3
30°	7624.8	6492.7	4031.2	2219.6	1610.3	1480.6	1471.2	1506.3	1556.3	1595.5	1604.9
32.5°	7458.6	6177.9	3415.2	1784.6	1417.2	1356.4	1364.5	1394.2	1425.3	1446.9	1461.7
35°	7381.6	5907.7	2846.5	1505.0	1294.2	1260.4	1271.2	1287.5	1301.0	1317.2	1329.3
37.5°	7395.1	5698.3	2338.5	1330.7	1211.8	1194.2	1194.2	1194.2	1194.2	1202.3	1203.7
40°	7520.8	5578.1	1925.1	1219.9	1156.4	1137.5	1122.6	1109.1	1098.3	1103.7	1101.0
42.5°	7842.3	5567.3	1622.5	1149.7	1111.8	1080.8	1051.0	1032.1	1018.6	1024.0	1026.7
45°	8388.1	5702.4	1418.5	1099.7	1070.0	1022.7	984.8	964.6	955.1	972.7	975.4
47.5°	9094.6	5996.9	1294.2	1063.2	1030.8	968.6	928.1	909.2	911.9	937.6	944.3
50°	10005.2	6475.1	1234.8	1040.2	1003.8	922.7	880.8	864.6	872.7	909.2	917.3
52.5°	11004.9	7164.1	1241.5	1033.5	986.2	888.9	844.3	825.4	838.9	872.7	879.5
55°	12158.6	7992.2	1353.7	1042.9	960.5	867.3	814.6	782.2	793.0	824.1	829.5
57.5°	13440.6	8940.6	1579.3	1040.2	928.1	847.0	783.6	734.9	743.0	761.9	767.3
60°	14775.4	10086.2	1929.2	1048.3	913.2	822.7	741.7	680.9	678.2	694.4	697.1
62.5°	16377.6	11411.5	2329.0	1053.7	922.7	791.7	686.3	626.8	618.7	622.8	625.5
65°	18028.5	12370.7	2179.1	1032.1	952.4	766.0	637.7	574.2	559.3	556.6	557.9
67.5°	18079.8	11342.6	1527.9	988.9	964.6	752.5	601.2	529.6	505.3	495.8	494.4
70°	16214.1	9214.9	1190.2	943.0	915.9	730.9	567.4	493.1	456.6	441.8	440.4
71°	15303.6	8482.6	1128.0	920.0	879.5	709.3	552.5	476.9	439.1	422.8	420.1
72.5°	13875.6	7604.5	1052.4	883.5	809.2	653.9	524.2	453.9	414.7	395.8	391.8
75°	9957.9	4972.9	903.8	787.6	670.1	521.5	459.3	408.0	374.2	351.2	348.5
77.5°	3836.7	1979.1	683.6	655.2	513.4	408.0	378.3	352.6	328.3	305.3	304.0
80°	1186.1	884.9	498.5	493.1	371.5	304.0	294.5	287.8	278.3	254.0	248.6
82.5°	633.6	508.0	343.1	318.8	243.2	202.6	213.5	216.2	217.5	191.8	189.1
85°	302.6	268.8	193.2	181.0	141.9	113.5	131.0	141.9	143.2	117.5	109.4
87.5°	144.6	140.5	90.5	68.9	52.7	37.8	45.9	56.7	62.1	44.6	39.2
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)