

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: P319759

Luminaire Tested: **GAN-SA5B-760-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319759
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-SA5B-760-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 800mA 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: 28564 lumens
Efficiency: N/A
Efficacy: 136.0 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): 210
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

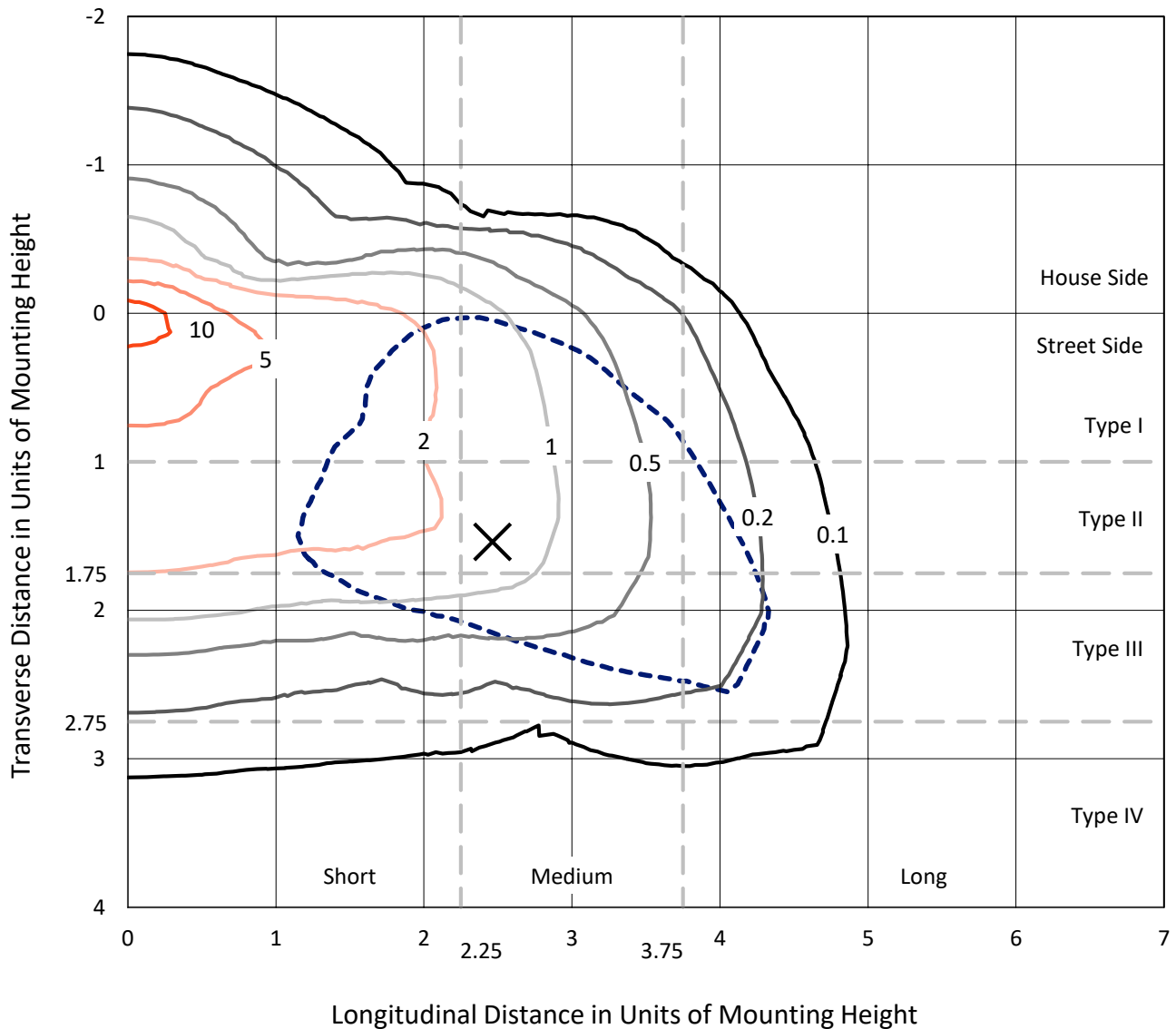


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Iso-Footcandle Lines of Horizontal Illumination

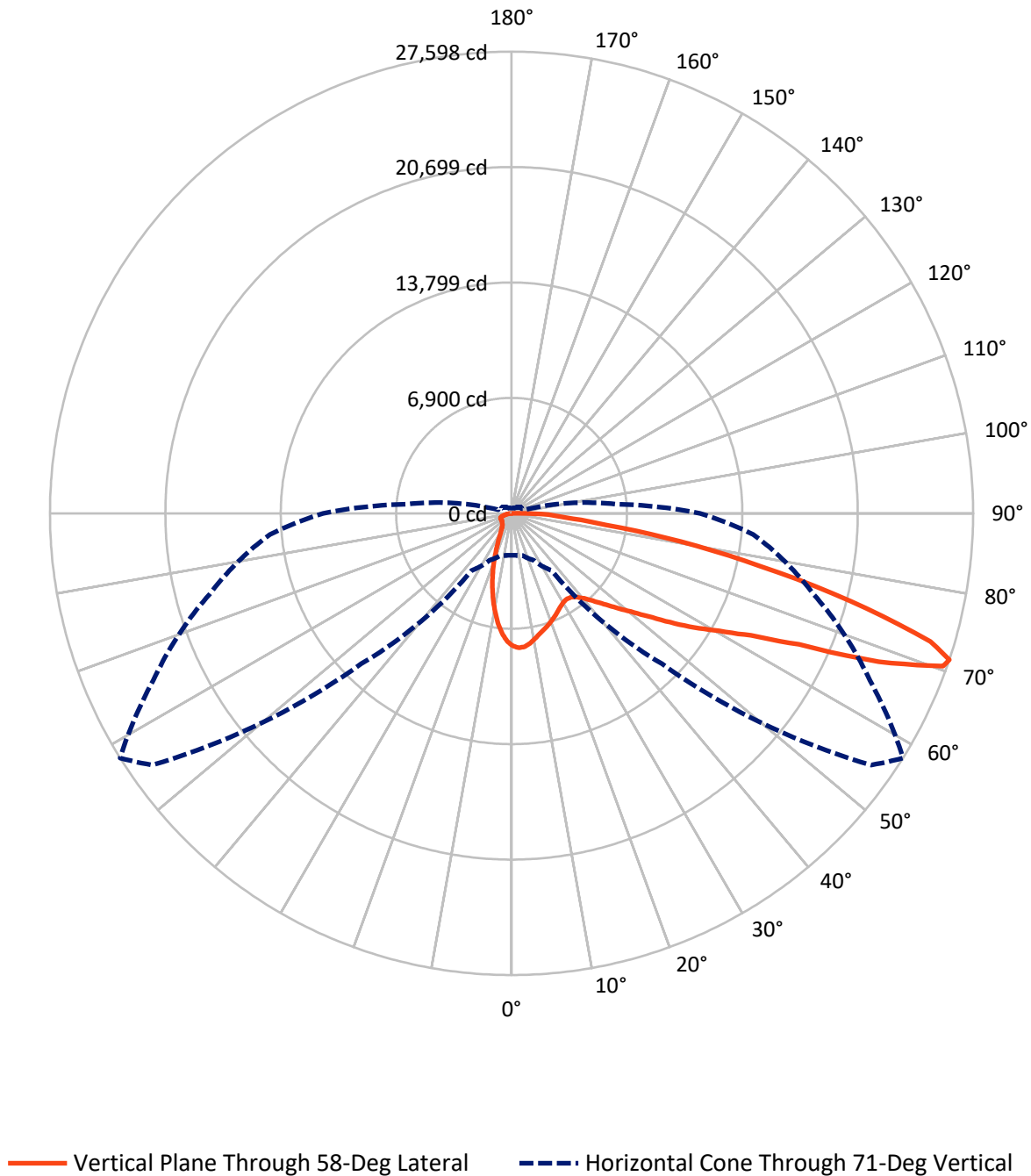
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4270.5	0.0	4270.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	24293.5	0.0	24293.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	28564.0	0.0	28564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.8	2.4
10°-20°	1518.2	5.3
20°-30°	1929.5	6.8
30°-40°	2457.7	8.6
40°-50°	3485.2	12.2
50°-60°	5393.5	18.9
60°-70°	7342.5	25.7
70°-80°	4898.3	17.1
80°-90°	856.4	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°	28564.0	100.0
0°-180°	28564.0	100.0

Coefficient of Utilization



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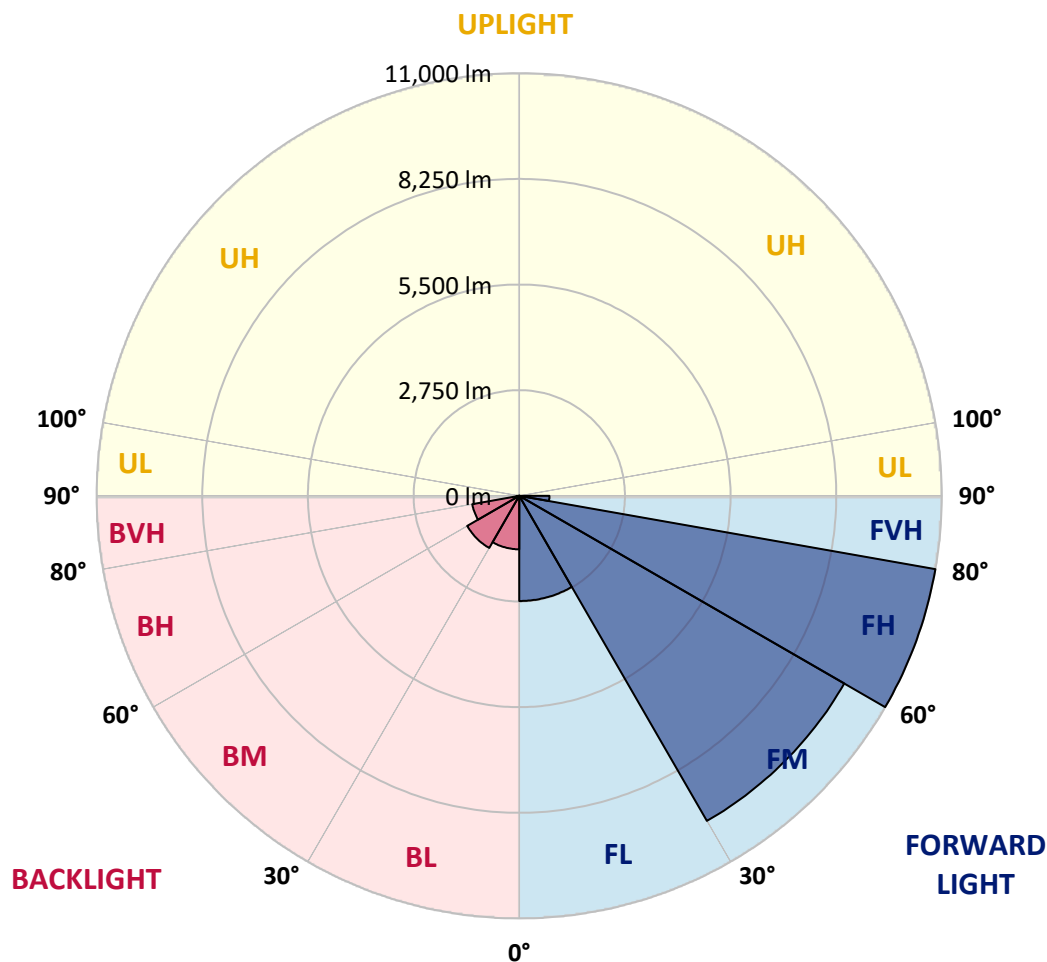
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2738.3	9.6			
FM	(30°-60°)	9770.3	34.2			
FH	(60°-80°)	10999.6	38.5			G4/12000
FVH	(80°-90°)	785.2	2.7			G5
BL	(0°-30°)	1392.1	4.9	B3/2500		
BM	(30°-60°)	1566.1	5.5	B2/2500		
BH	(60°-80°)	1241.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	71.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7914.1	7914.1	7914.1	7914.1	7914.1	7914.1	7914.1	7914.1	7914.1	7914.1	7914.1
2.5°	8124.1	8113.1	8117.1	8109.2	8090.3	8071.3	8043.5	8048.5	8009.7	7951.9	7880.3
5°	7970.9	7966.9	7996.7	8013.6	8027.6	8016.6	8008.7	8018.6	7961.9	7882.3	7757.9
7.5°	7649.5	7605.7	7643.5	7700.2	7753.9	7794.7	7848.5	7855.4	7819.6	7736.0	7572.9
10°	7192.8	7151.0	7206.7	7295.3	7402.7	7500.2	7608.7	7628.6	7635.5	7559.9	7361.9
12.5°	6719.2	6687.3	6743.0	6867.4	7045.5	7195.8	7368.9	7398.7	7460.4	7409.7	7166.9
15°	6295.3	6283.4	6351.0	6473.4	6678.4	6908.2	7157.9	7212.7	7317.1	7300.2	7014.7
17.5°	5929.1	5926.2	5977.9	6106.2	6333.1	6623.6	6948.0	7040.5	7195.8	7215.7	6889.3
20°	5656.5	5650.5	5686.4	5780.9	6014.7	6344.0	6721.1	6848.5	7072.4	7142.0	6760.0
22.5°	5510.2	5509.3	5510.2	5555.0	5746.1	6052.5	6500.3	6655.5	6952.0	7083.3	6616.7
25°	5485.4	5482.4	5460.5	5455.5	5564.0	5808.7	6281.4	6452.5	6837.6	7042.5	6480.4
27.5°	5550.0	5554.0	5525.2	5478.4	5500.3	5648.5	6091.3	6274.4	6746.0	7034.6	6385.8
30°	5684.4	5682.4	5657.5	5608.7	5566.0	5588.8	5956.0	6139.1	6684.3	7069.4	6321.2
32.5°	5832.6	5843.6	5838.6	5811.7	5748.0	5656.5	5915.2	6094.3	6666.4	7153.0	6293.3
35°	6010.7	6022.7	6058.5	6079.4	6004.8	5857.5	6002.8	6158.0	6718.2	7310.2	6338.1
37.5°	6179.9	6210.7	6311.2	6399.8	6336.1	6171.9	6235.6	6346.0	6878.4	7557.9	6458.5
40°	6374.9	6401.8	6565.9	6754.0	6744.0	6573.9	6610.7	6684.3	7160.9	7913.1	6676.4
42.5°	6566.9	6620.7	6858.5	7125.1	7201.7	7051.5	7110.2	7149.0	7558.9	8383.8	7056.5
45°	6822.6	6880.3	7210.7	7532.1	7711.2	7626.6	7720.1	7735.0	8059.4	9024.5	7608.7
47.5°	7209.7	7275.4	7660.4	7997.7	8271.3	8280.3	8434.5	8428.5	8684.3	9757.9	8304.2
50°	7812.6	7907.2	8222.6	8538.0	8870.3	9055.4	9261.4	9232.5	9433.5	10538.9	9105.1
52.5°	8602.7	8646.4	8880.3	9113.1	9526.0	9940.9	10236.4	10210.6	10283.2	11341.9	10014.6
55°	9421.5	9454.4	9550.9	9678.3	10233.5	10910.0	11534.9	11494.1	11310.0	12175.7	10913.0
57.5°	10157.8	10224.5	10291.2	10343.9	10945.9	11922.9	12863.2	12866.2	12424.4	13075.1	11841.4
60°	10272.3	10331.0	10771.7	11187.6	12164.7	13274.1	14285.0	14255.2	13577.6	14051.2	12876.1
62.5°	9080.3	9212.6	9948.9	11055.3	13338.8	15745.7	16098.9	16062.1	14956.7	15254.2	14081.1
65°	6507.2	6657.5	7546.0	9208.6	12769.7	18469.0	19372.4	18876.9	16837.2	16733.7	15492.0
67.5°	3754.1	3789.9	4175.0	5510.2	9723.0	18611.3	24366.3	23672.8	19757.5	18412.3	16182.5
70°	2776.0	2775.0	2866.6	3390.9	5261.5	15189.5	26741.3	27363.2	22832.0	18964.5	15206.4
71°	2510.4	2513.3	2615.8	3086.5	4167.0	12714.0	26236.8	27598.0	23641.9	18691.9	14500.0
72.5°	2147.2	2157.1	2299.4	2768.1	3505.3	8767.8	24063.8	26189.1	24026.0	18019.2	13394.5
75°	1628.8	1651.7	1848.7	2333.2	3203.9	4446.6	17661.0	20912.7	21343.5	15899.9	9952.9
77.5°	1162.1	1188.0	1410.9	1962.1	3045.7	3351.1	11827.4	15254.2	15706.9	10189.7	4489.4
80°	734.3	765.1	933.3	1561.1	2861.6	3182.0	7432.6	10253.4	8564.9	3260.6	1142.2
82.5°	430.8	454.7	579.1	1019.9	2337.2	3064.6	4373.0	5683.4	3333.2	985.0	519.4
85°	249.7	260.7	361.2	649.7	1697.5	2892.4	3212.8	3177.0	1446.7	481.6	245.8
87.5°	116.4	129.3	213.9	339.3	942.3	2096.4	2539.2	2193.9	899.5	225.9	115.4
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°	7914.1	7914.1	7914.1	7914.1	7914.1	7914.1	7914.1	7914.1	7914.1	7914.1	7914.1
2.5°	7845.5	7828.6	7757.9	7695.2	7629.6	7544.0	7449.5	7437.5	7379.8	7390.8	7370.9
5°	7690.3	7647.5	7477.3	7323.1	7141.0	6977.9	6800.7	6719.2	6601.7	6593.8	6563.9
7.5°	7468.4	7388.8	7125.1	6832.6	6540.1	6261.5	5985.9	5804.8	5619.7	5541.1	5534.1
10°	7218.6	7083.3	6695.3	6262.5	5840.6	5433.6	5039.6	4748.1	4485.4	4361.0	4356.1
12.5°	6981.8	6781.8	6249.5	5660.5	5083.4	4556.1	4015.8	3632.7	3303.4	3192.9	3146.2
15°	6780.8	6499.3	5815.7	5062.5	4362.0	3629.7	3014.8	2611.8	2307.4	2201.9	2182.0
17.5°	6585.8	6223.7	5370.9	4458.5	3611.8	2806.9	2191.0	1891.5	1729.3	1686.5	1685.5
20°	6391.8	5940.1	4906.3	3840.7	2886.5	2099.4	1684.5	1550.2	1495.5	1490.5	1482.5
22.5°	6171.9	5639.6	4417.7	3220.8	2252.7	1650.7	1431.8	1378.1	1371.1	1389.0	1389.0
25°	5966.0	5341.1	3922.2	2613.8	1752.2	1377.1	1278.6	1267.6	1286.5	1318.4	1321.3
27.5°	5773.9	5053.5	3438.7	2074.6	1403.9	1212.9	1172.1	1185.0	1218.9	1255.7	1256.7
30°	5615.7	4781.9	2969.0	1634.8	1186.0	1090.5	1083.5	1109.4	1146.2	1175.1	1182.0
32.5°	5493.3	4550.1	2515.3	1314.4	1043.7	999.0	1004.9	1026.8	1049.7	1065.6	1076.6
35°	5436.6	4351.1	2096.4	1108.4	953.2	928.3	936.3	948.2	958.2	970.1	979.1
37.5°	5446.6	4196.9	1722.3	980.1	892.5	879.6	879.6	879.6	879.6	885.5	886.5
40°	5539.1	4108.3	1417.9	898.5	851.7	837.8	826.8	816.9	808.9	812.9	810.9
42.5°	5775.9	4100.3	1195.0	846.7	818.9	796.0	774.1	760.2	750.2	754.2	756.2
45°	6177.9	4199.8	1044.7	809.9	788.0	753.2	725.3	710.4	703.5	716.4	718.4
47.5°	6698.3	4416.8	953.2	783.1	759.2	713.4	683.6	669.6	671.6	690.5	695.5
50°	7368.9	4769.0	909.4	766.1	739.3	679.6	648.7	636.8	642.8	669.6	675.6
52.5°	8105.2	5276.4	914.4	761.2	726.3	654.7	621.9	607.9	617.9	642.8	647.7
55°	8954.9	5886.4	997.0	768.1	707.4	638.8	600.0	576.1	584.1	606.9	610.9
57.5°	9899.1	6584.8	1163.1	766.1	683.6	623.9	577.1	541.3	547.2	561.2	565.2
60°	10882.2	7428.6	1420.8	772.1	672.6	605.9	546.2	501.5	499.5	511.4	513.4
62.5°	12062.2	8404.7	1715.4	776.1	679.6	583.1	505.5	461.7	455.7	458.7	460.7
65°	13278.1	9111.1	1604.9	760.2	701.5	564.2	469.6	422.9	411.9	409.9	410.9
67.5°	13315.9	8353.9	1125.3	728.3	710.4	554.2	442.8	390.0	372.1	365.2	364.2
70°	11941.9	6786.8	876.6	694.5	674.6	538.3	417.9	363.2	336.3	325.4	324.4
71°	11271.2	6247.5	830.8	677.6	647.7	522.4	407.0	351.2	323.4	311.4	309.4
72.5°	10219.5	5600.8	775.1	650.7	596.0	481.6	386.1	334.3	305.5	291.5	288.5
75°	7334.1	3662.6	665.6	580.1	493.5	384.1	338.3	300.5	275.6	258.7	256.7
77.5°	2825.8	1457.7	503.5	482.6	378.1	300.5	278.6	259.7	241.8	224.9	223.9
80°	873.6	651.7	367.2	363.2	273.6	223.9	216.9	211.9	205.0	187.1	183.1
82.5°	466.6	374.1	252.7	234.8	179.1	149.2	157.2	159.2	160.2	141.3	139.3
85°	222.9	198.0	142.3	133.3	104.5	83.6	96.5	104.5	105.5	86.6	80.6
87.5°	106.5	103.5	66.7	50.7	38.8	27.9	33.8	41.8	45.8	32.8	28.9
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)