

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: P320100

Luminaire Tested: **GAN-SA6D-760-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44096 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

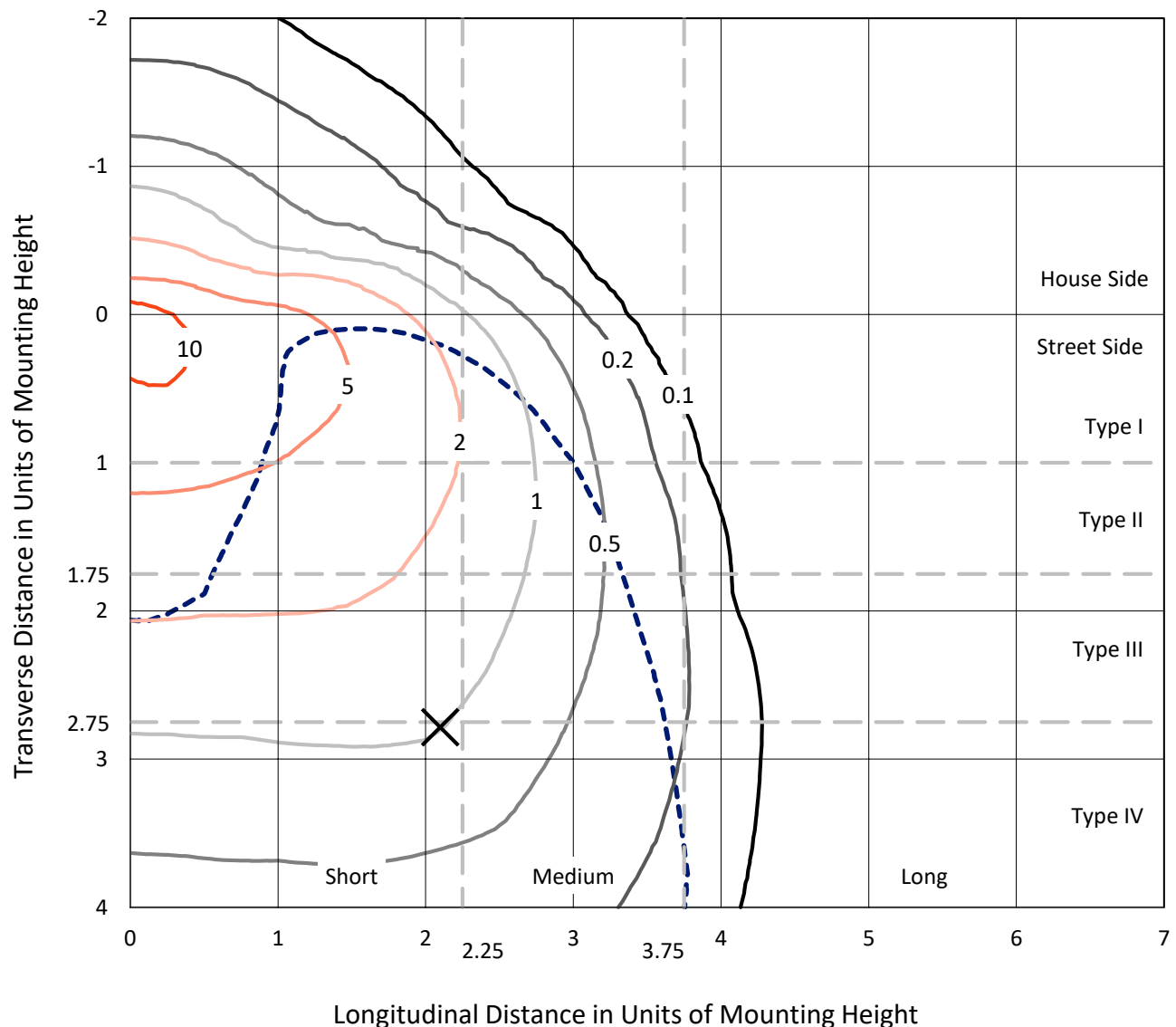
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320100
 CATALOG NUMBER: GAN-SA6D-760-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

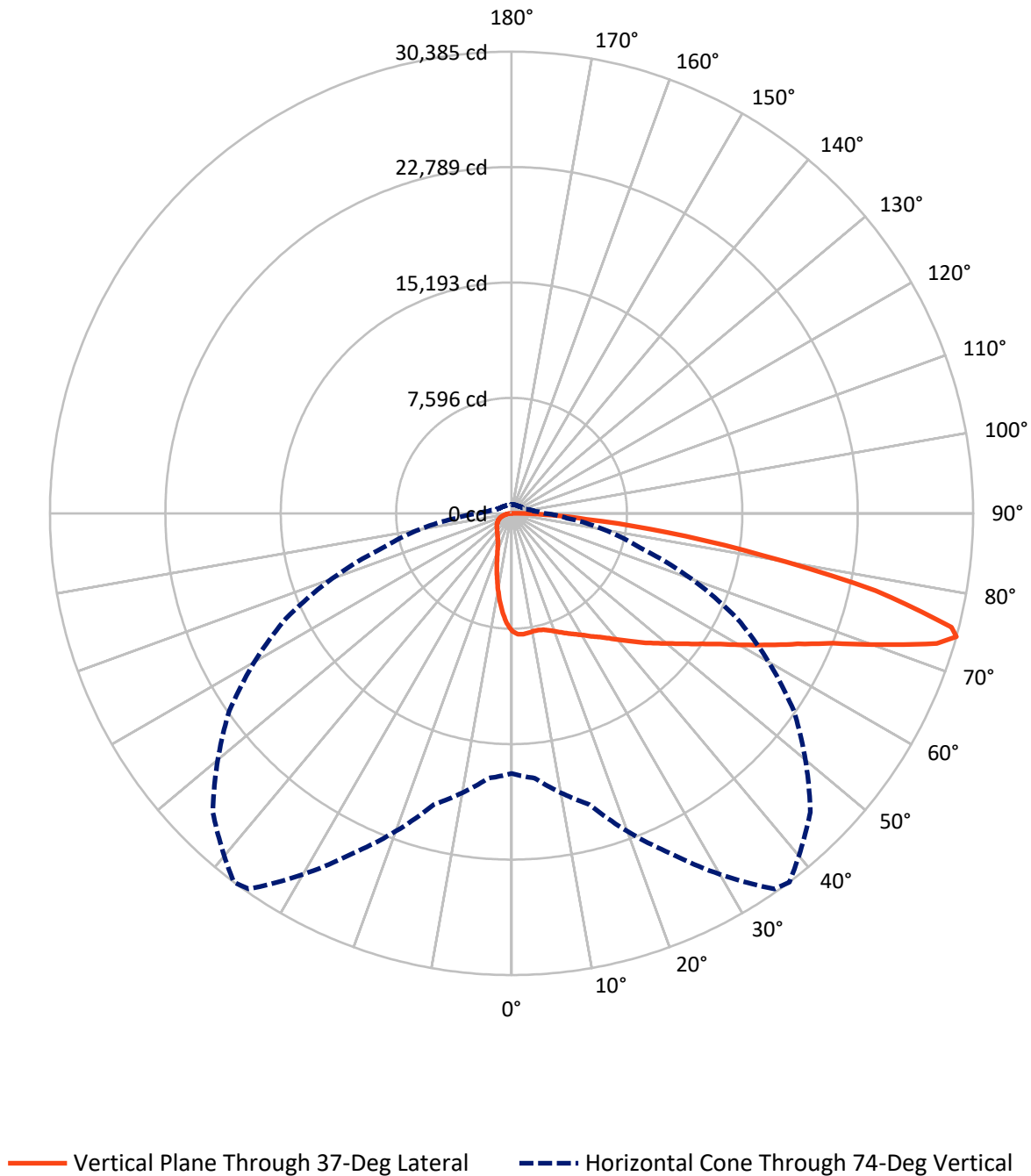
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P320100
CATALOG NUMBER: GAN-SA6D-760-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P320100

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6067.3	0.0	6067.3
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	38028.7	0.0	38028.7
	% Fixture	86.2	0.0	86.2
Total	Lumens	44096.0	0.0	44096.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.2	1.6
10°-20°	1753.8	4.0
20°-30°	2702.2	6.1
30°-40°	3929.4	8.9
40°-50°	5783.5	13.1
50°-60°	8121.8	18.4
60°-70°	10279.7	23.3
70°-80°	9051.7	20.5
80°-90°	1789.7	4.1
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°	44096.0	100.0
0°-180°	44096.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320100

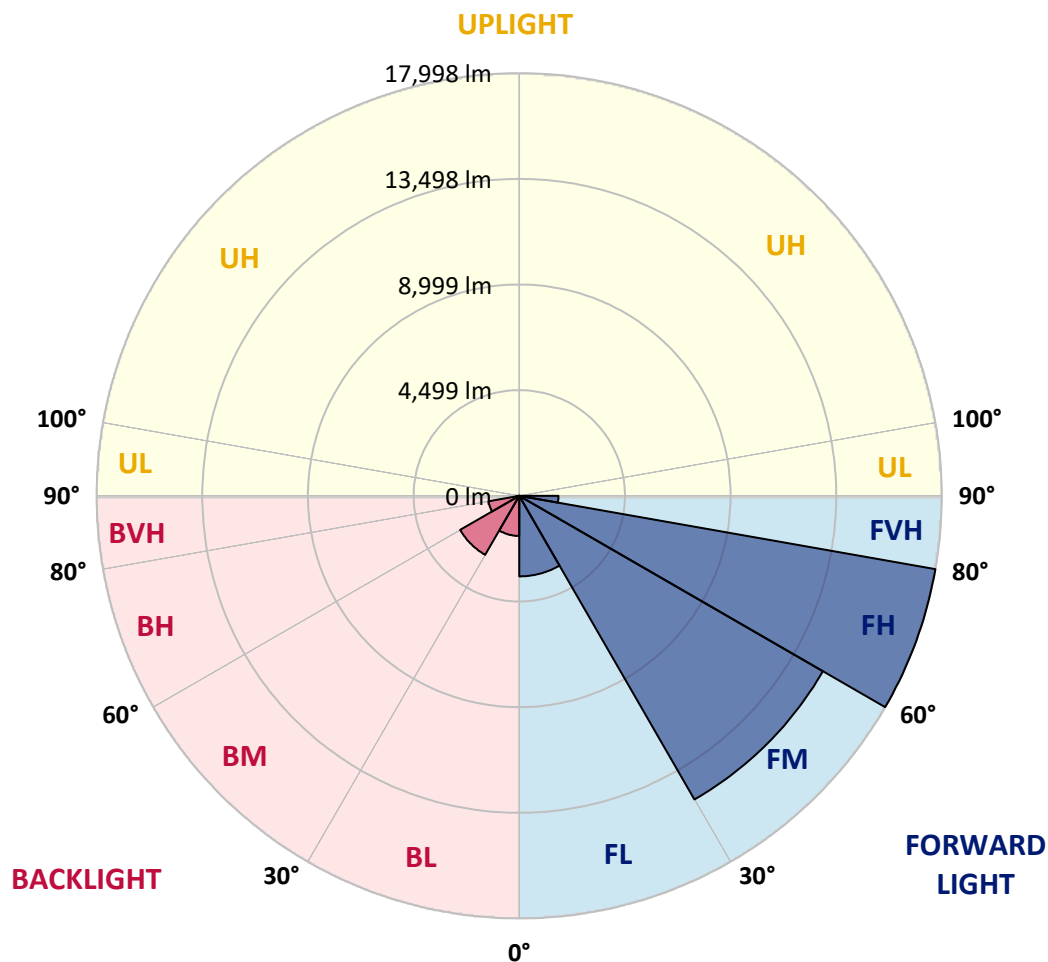
CATALOG NUMBER: GAN-SA6D-760-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3431.2	7.8			
FM	(30°-60°)	14931.3	33.9			
FH	(60°-80°)	17997.7	40.8			G5
FVH	(80°-90°)	1668.5	3.8			G5
BL	(0°-30°)	1709.0	3.9	B3/2500		
BM	(30°-60°)	2903.4	6.6	B3/5000		
BH	(60°-80°)	1333.7	3.0	B3/2500		G3/2500
BVH	(80°-90°)	121.2	0.3			G2/225
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: P320100

CATALOG NUMBER: GAN-SA6D-760-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	7769.5	7769.5	7769.5	7769.5	7769.5	7769.5	7769.5	7769.5	7769.5	7769.5	7769.5
2.5°	8035.2	8036.7	8035.2	8022.7	7993.2	7968.4	7948.2	7918.7	7853.4	7803.7	7729.2
5°	8111.3	8101.9	8095.7	8072.4	8025.8	7997.9	7959.0	7903.1	7796.0	7696.5	7575.4
7.5°	8075.5	8064.7	8050.7	8022.7	7969.9	7946.6	7892.3	7819.2	7690.3	7559.9	7385.9
10°	7965.3	7962.2	7955.9	7949.7	7904.7	7886.0	7836.3	7758.7	7631.3	7472.9	7269.4
12.5°	7842.5	7850.3	7875.2	7907.8	7887.6	7878.3	7847.2	7794.4	7663.9	7493.1	7247.6
15°	7764.9	7786.6	7853.4	7938.9	7955.9	7952.8	7945.1	7910.9	7772.7	7583.1	7297.3
17.5°	7738.5	7774.2	7901.6	8042.9	8092.6	8103.5	8106.6	8047.6	7893.8	7693.4	7348.6
20°	7786.6	7831.7	8018.1	8212.2	8291.4	8297.7	8283.7	8181.2	8008.8	7788.2	7376.6
22.5°	7932.6	7973.0	8206.0	8425.0	8515.1	8524.4	8482.5	8327.2	8129.9	7900.0	7415.4
25°	8213.8	8263.5	8496.5	8715.5	8762.1	8763.6	8703.1	8510.5	8288.3	8056.9	7499.3
27.5°	8580.4	8630.1	8839.8	9054.1	9029.3	9015.3	8933.0	8740.3	8494.9	8272.8	7648.4
30°	8988.9	9043.2	9242.1	9394.3	9335.3	9307.3	9240.5	8992.0	8782.3	8567.9	7876.7
32.5°	9411.4	9461.1	9635.0	9739.1	9664.6	9652.1	9551.2	9324.4	9156.6	9018.4	8246.4
35°	9844.7	9880.5	10051.3	10110.3	10010.9	10007.8	9979.9	9771.7	9666.1	9731.3	8783.8
37.5°	10287.4	10296.7	10442.8	10445.9	10416.3	10428.8	10458.3	10327.8	10357.3	10560.8	9482.8
40°	10682.0	10706.8	10812.4	10845.1	10896.3	10939.8	11087.4	11001.9	11230.3	11590.6	10352.7
42.5°	10974.0	11022.1	11191.4	11275.3	11441.5	11509.9	11718.0	11797.2	12257.0	12797.5	11387.2
45°	11220.9	11295.5	11567.3	11739.7	12020.9	12140.5	12438.7	12704.3	13417.3	14107.0	12476.0
47.5°	11488.1	11582.9	11923.0	12252.3	12634.4	12769.6	13311.7	13709.3	14655.3	15424.1	13502.7
50°	11881.1	11954.1	12286.5	12803.7	13280.6	13454.6	14204.8	14774.9	15913.4	16679.2	14392.8
52.5°	12429.4	12401.4	12682.6	13408.0	14047.9	14262.3	15158.5	15908.8	17188.7	17814.7	15144.6
55°	12980.8	12934.2	13131.5	14040.2	14942.6	15167.9	16208.6	17047.3	18401.8	18836.7	15720.8
57.5°	13594.4	13505.8	13672.0	14753.1	15961.6	16230.3	17384.4	18257.3	19594.7	19663.1	16087.4
60°	14226.6	14107.0	14293.4	15636.9	17255.5	17572.3	18760.6	19437.8	20719.3	20324.8	16205.4
62.5°	14779.5	14695.7	14983.0	16623.3	18714.0	19061.9	20112.0	20692.9	21828.3	20599.7	15779.8
65°	15262.6	15276.6	15773.6	17732.3	20340.3	20711.5	21662.1	22240.0	22701.3	20436.6	14784.2
67.5°	15838.9	15918.1	16766.2	19192.4	22387.5	22794.5	23917.5	23926.8	23189.0	19479.8	12823.9
70°	16679.2	16842.3	18131.5	21217.9	25298.4	25857.6	26724.3	24917.8	22504.0	16885.8	10090.2
72.5°	17424.8	17729.2	19583.8	23535.4	28846.1	29270.2	28366.1	24346.2	19641.3	12654.6	6286.2
74°	17121.9	17499.3	19847.9	24677.1	30181.9	30385.4	27811.6	22678.0	16376.3	8763.6	3653.3
75°	16469.5	16879.6	19462.7	24666.2	30012.6	29899.2	26472.7	20772.1	13487.2	5977.1	2430.9
77.5°	13291.5	13724.8	16399.6	21140.2	24608.7	24501.6	20335.6	13934.5	5907.2	1960.2	1234.9
80°	7727.6	8058.5	10180.2	13425.1	16593.8	16787.9	13373.8	6895.0	2323.7	1101.3	837.2
82.5°	3432.8	3661.1	4917.7	6853.1	10014.0	10264.1	7003.8	3612.9	1435.2	669.5	503.3
85°	2252.3	2421.6	2985.4	3263.5	4768.6	4939.5	3428.1	2813.0	947.5	368.1	369.7
87.5°	1620.1	1783.2	2218.1	1936.9	2188.6	2072.1	1865.5	2603.3	380.6	209.7	124.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320100

CATALOG NUMBER: GAN-SA6D-760-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7769.5	7769.5	7769.5	7769.5	7769.5	7769.5	7769.5	7769.5	7769.5	7769.5	7769.5
2.5°	7696.5	7671.7	7615.8	7510.1	7451.1	7401.4	7319.1	7270.9	7249.2	7247.6	7257.0
5°	7505.5	7448.0	7303.6	7126.5	6985.1	6856.2	6696.2	6599.9	6531.6	6491.2	6502.1
7.5°	7283.4	7193.3	6966.5	6683.8	6457.0	6206.9	5960.0	5812.4	5697.5	5612.0	5627.6
10°	7131.1	7006.9	6676.0	6269.1	5891.6	5528.2	5188.0	4984.5	4823.0	4698.7	4708.0
12.5°	7079.9	6912.1	6453.9	5910.3	5380.6	4883.5	4439.3	4127.1	3960.9	3819.5	3830.4
15°	7087.7	6862.4	6267.5	5587.2	4920.8	4294.8	3755.8	3390.8	3165.6	3067.7	3069.3
17.5°	7093.9	6805.0	6071.8	5240.8	4465.7	3745.0	3159.4	2789.7	2576.9	2486.8	2488.4
20°	7073.7	6711.8	5829.5	4843.2	3990.4	3240.2	2673.2	2359.4	2197.9	2128.0	2128.0
22.5°	7047.3	6601.5	5556.1	4444.0	3521.3	2802.1	2325.3	2086.1	1992.9	1946.3	1944.7
25°	7059.7	6519.1	5276.5	4033.9	3089.5	2452.6	2093.8	1935.4	1873.3	1843.8	1842.2
27.5°	7126.5	6480.3	5018.7	3625.4	2712.0	2190.1	1938.5	1826.7	1786.3	1767.6	1767.6
30°	7247.6	6480.3	4750.0	3277.4	2398.3	1996.0	1818.9	1742.8	1714.8	1702.4	1702.4
32.5°	7458.9	6516.0	4490.6	2932.6	2148.2	1843.8	1719.5	1668.2	1646.5	1640.3	1640.3
35°	7822.4	6637.2	4237.4	2606.4	1946.3	1719.5	1624.7	1595.2	1579.7	1578.1	1582.8
37.5°	8333.4	6884.2	3999.7	2365.7	1803.4	1618.5	1545.5	1522.2	1512.9	1520.7	1526.9
40°	8976.4	7219.7	3783.8	2148.2	1694.6	1537.8	1472.5	1457.0	1452.3	1463.2	1472.5
42.5°	9753.1	7673.2	3606.7	1991.3	1610.8	1469.4	1410.4	1391.7	1387.1	1399.5	1411.9
45°	10593.4	8161.0	3482.5	1874.8	1545.5	1418.2	1356.0	1335.8	1326.5	1332.7	1346.7
47.5°	11357.6	8622.3	3432.8	1792.5	1483.4	1374.7	1307.9	1283.0	1267.5	1264.4	1275.2
50°	12002.3	8965.6	3456.1	1742.8	1433.7	1326.5	1261.3	1233.3	1210.0	1196.0	1203.8
52.5°	12471.3	9181.5	3477.8	1721.0	1394.9	1273.7	1210.0	1183.6	1152.5	1129.2	1129.2
55°	12811.5	9231.2	3429.7	1704.0	1365.3	1216.2	1152.5	1127.7	1096.6	1070.2	1067.1
57.5°	12945.1	9091.4	3251.0	1679.1	1345.1	1161.9	1092.0	1073.3	1046.9	1015.9	1014.3
60°	12764.9	8659.6	2906.2	1626.3	1318.7	1116.8	1031.4	1019.0	1006.5	977.0	975.5
62.5°	12041.1	7712.1	2460.4	1519.1	1265.9	1068.7	975.5	981.7	983.2	963.0	959.9
65°	10728.6	6410.4	2025.5	1379.3	1186.7	1011.2	918.0	947.5	964.6	961.5	956.8
67.5°	8821.1	4989.2	1716.4	1231.8	1082.6	932.0	855.9	890.0	904.0	914.9	911.8
70°	6547.1	3518.2	1419.7	1076.4	956.8	838.8	775.1	792.2	782.9	795.3	799.9
72.5°	3650.2	2110.9	1157.2	921.1	826.3	730.0	685.0	681.9	661.7	661.7	661.7
74°	2190.1	1548.6	1017.4	824.8	747.1	658.6	619.8	605.8	587.1	588.7	587.1
75°	1761.4	1331.2	933.5	761.1	691.2	616.7	577.8	559.2	545.2	545.2	543.7
77.5°	1112.2	1011.2	751.8	605.8	553.0	507.9	481.5	456.7	456.7	455.1	453.6
80°	840.3	804.6	585.6	458.2	424.0	389.9	372.8	361.9	361.9	366.6	365.0
82.5°	576.3	605.8	411.6	320.0	302.9	278.0	274.9	276.5	271.8	265.6	264.1
85°	420.9	455.1	278.0	201.9	184.8	169.3	181.7	187.9	180.2	166.2	160.0
87.5°	161.5	298.2	149.1	83.9	77.7	66.8	77.7	80.8	87.0	68.3	69.9
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)