

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: P320163

Luminaire Tested: **GAN-SA9B-830-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320163
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-SA9B-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA 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: 38577 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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

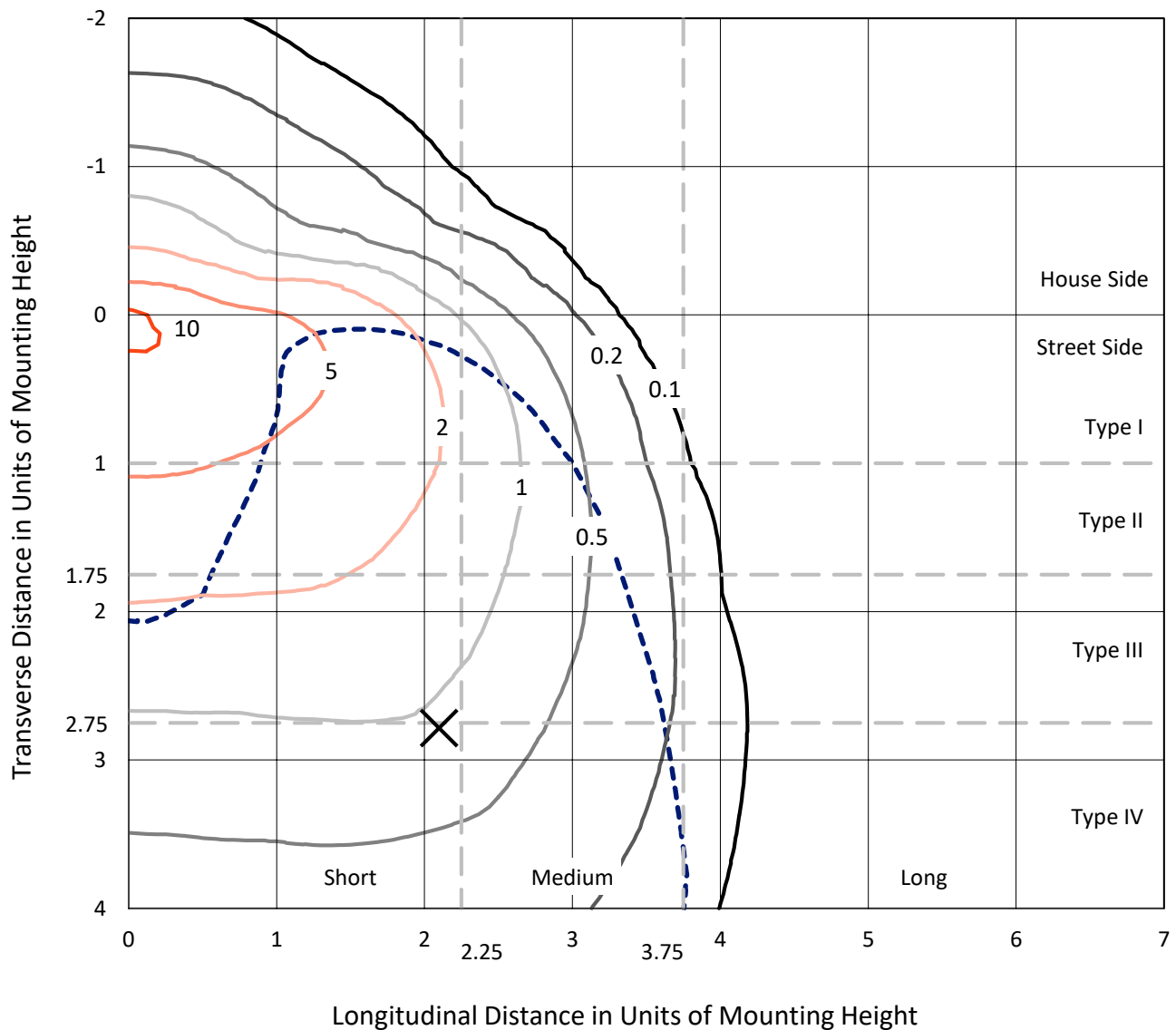


REPORT NUMBER: P320163

CATALOG NUMBER: GAN-SA9B-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

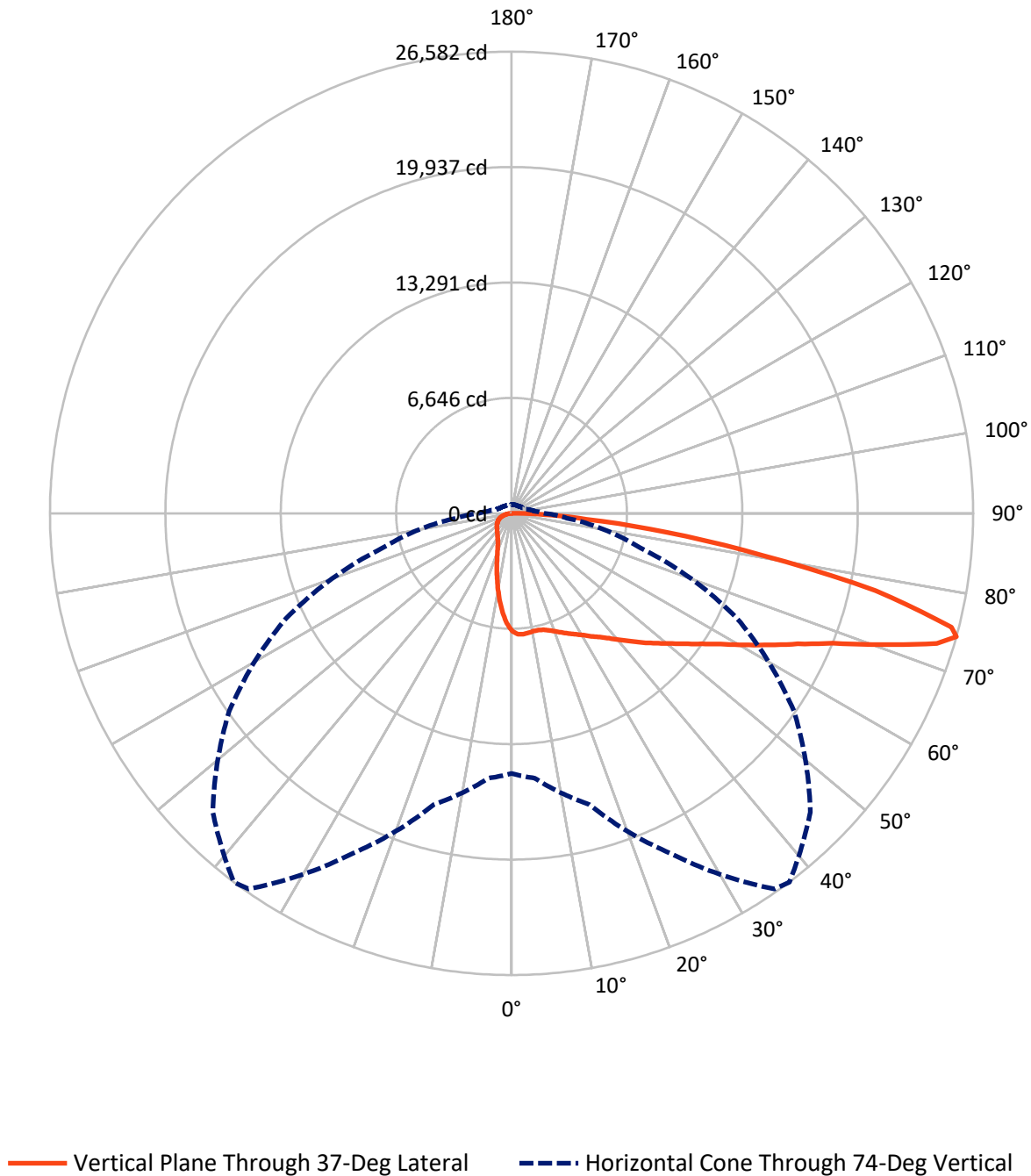
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P320163
CATALOG NUMBER: GAN-SA9B-830-U-SL4

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5307.9	0.0	5307.9
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	33269.1	0.0	33269.1
	% Fixture	86.2	0.0	86.2
Total	Lumens	38577.0	0.0	38577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.6	1.6
10°-20°	1534.3	4.0
20°-30°	2364.0	6.1
30°-40°	3437.6	8.9
40°-50°	5059.6	13.1
50°-60°	7105.3	18.4
60°-70°	8993.1	23.3
70°-80°	7918.8	20.5
80°-90°	1565.7	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°	38577.0	100.0
0°-180°	38577.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320163

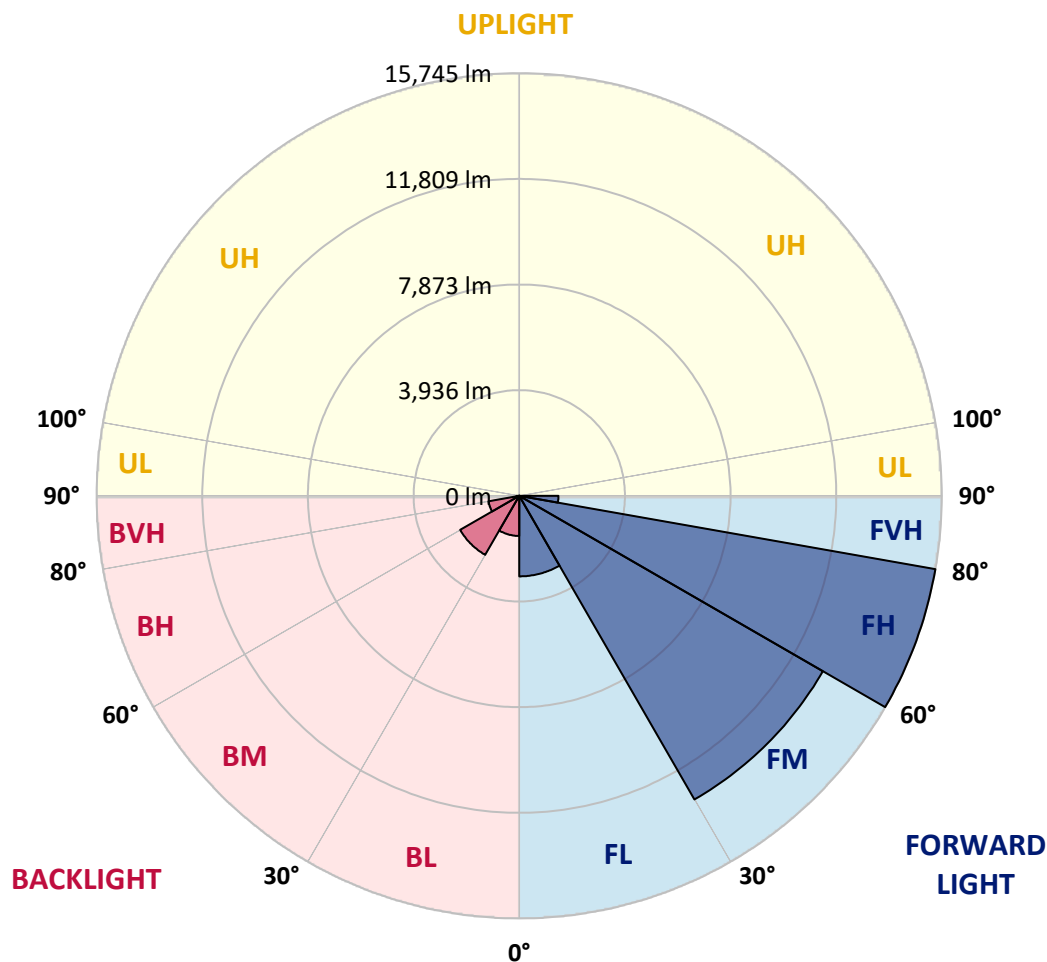
CATALOG NUMBER: GAN-SA9B-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3001.7	7.8			
FM	(30°-60°)	13062.5	33.9			
FH	(60°-80°)	15745.2	40.8			G5
FVH	(80°-90°)	1459.7	3.8			G5
BL	(0°-30°)	1495.1	3.9	B3/2500		
BM	(30°-60°)	2540.0	6.6	B3/5000		
BH	(60°-80°)	1166.7	3.0	B3/2500		G3/2500
BVH	(80°-90°)	106.0	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: P320163

CATALOG NUMBER: GAN-SA9B-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1
2.5°	7029.5	7030.8	7029.5	7018.6	6992.8	6971.1	6953.4	6927.6	6870.5	6827.0	6761.8
5°	7096.1	7087.9	7082.5	7062.1	7021.3	6996.9	6962.9	6914.0	6820.2	6733.3	6627.3
7.5°	7064.8	7055.3	7043.1	7018.6	6972.4	6952.0	6904.5	6840.6	6727.8	6613.7	6461.5
10°	6968.3	6965.6	6960.2	6954.7	6915.3	6899.0	6855.5	6787.6	6676.2	6537.6	6359.6
12.5°	6861.0	6867.8	6889.5	6918.1	6900.4	6892.2	6865.1	6818.9	6704.7	6555.2	6340.5
15°	6793.0	6812.1	6870.5	6945.2	6960.2	6957.5	6950.7	6920.8	6799.8	6634.1	6384.0
17.5°	6769.9	6801.2	6912.6	7036.3	7079.8	7089.3	7092.0	7040.4	6905.8	6730.5	6428.9
20°	6812.1	6851.5	7014.5	7184.4	7253.7	7259.1	7246.9	7157.2	7006.4	6813.4	6453.3
22.5°	6939.8	6975.1	7179.0	7370.6	7449.4	7457.5	7420.8	7285.0	7112.4	6911.3	6487.3
25°	7185.8	7229.2	7433.1	7624.7	7665.4	7666.8	7613.8	7445.3	7251.0	7048.5	6560.7
27.5°	7506.5	7549.9	7733.4	7920.9	7899.2	7886.9	7814.9	7646.4	7431.7	7237.4	6691.1
30°	7863.8	7911.4	8085.3	8218.5	8166.9	8142.4	8084.0	7866.6	7683.1	7495.6	6890.9
32.5°	8233.5	8276.9	8429.1	8520.2	8455.0	8444.1	8355.8	8157.4	8010.6	7889.7	7214.3
35°	8612.6	8643.8	8793.3	8845.0	8758.0	8755.3	8730.8	8548.7	8456.3	8513.4	7684.5
37.5°	8999.9	9008.0	9135.8	9138.5	9112.6	9123.5	9149.3	9035.2	9061.0	9239.0	8296.0
40°	9345.0	9366.8	9459.2	9487.7	9532.5	9570.6	9699.7	9624.9	9824.7	10140.0	9056.9
42.5°	9600.5	9642.6	9790.7	9864.1	10009.5	10069.3	10251.4	10320.7	10722.9	11195.8	9961.9
45°	9816.5	9881.8	10119.6	10270.4	10516.4	10621.0	10881.9	11114.3	11738.0	12341.3	10914.5
47.5°	10050.3	10133.2	10430.8	10718.8	11053.1	11171.4	11645.6	11993.5	12821.0	13493.7	11812.7
50°	10394.1	10457.9	10748.7	11201.2	11618.4	11770.6	12427.0	12925.7	13921.7	14591.7	12591.4
52.5°	10873.8	10849.3	11095.3	11729.9	12289.7	12477.2	13261.3	13917.6	15037.4	15585.0	13249.1
55°	11356.2	11315.4	11488.0	12282.9	13072.4	13269.5	14179.9	14913.7	16098.7	16479.1	13753.2
57.5°	11892.9	11815.5	11960.9	12906.6	13963.9	14198.9	15208.6	15972.3	17142.3	17202.1	14073.9
60°	12446.0	12341.3	12504.4	13679.8	15095.8	15373.0	16412.6	17005.0	18126.1	17780.9	14177.2
62.5°	12929.7	12856.4	13107.8	14542.7	16371.8	16676.2	17594.8	18103.0	19096.3	18021.5	13804.9
65°	13352.4	13364.6	13799.4	15513.0	17794.5	18119.3	18950.9	19456.4	19860.0	17878.8	12933.8
67.5°	13856.5	13925.8	14667.8	16790.3	19585.5	19941.6	20924.0	20932.2	20286.7	17041.7	11218.9
70°	14591.7	14734.3	15862.2	18562.3	22132.1	22621.3	23379.5	21799.2	19687.5	14772.4	8827.3
72.5°	15243.9	15510.3	17132.8	20589.8	25235.8	25606.7	24815.9	21299.1	17183.0	11070.8	5499.4
74°	14978.9	15309.1	17363.8	21588.5	26404.4	26582.4	24330.7	19839.6	14326.7	7666.8	3196.1
75°	14408.2	14766.9	17026.8	21579.0	26256.3	26157.1	23159.4	18172.3	11799.2	5229.0	2126.6
77.5°	11627.9	12007.1	14347.1	18494.4	21528.7	21435.0	17790.5	12190.5	5167.8	1714.9	1080.3
80°	6760.4	7049.9	8906.1	11744.8	14516.9	14686.8	11700.0	6032.1	2032.9	963.4	732.4
82.5°	3003.1	3202.9	4302.2	5995.4	8760.7	8979.5	6127.2	3160.8	1255.6	585.7	440.3
85°	1970.4	2118.5	2611.8	2855.0	4171.8	4321.2	2999.0	2460.9	828.9	322.1	323.4
87.5°	1417.3	1560.0	1940.5	1694.5	1914.7	1812.7	1632.0	2277.5	332.9	183.4	108.7
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: P320163

CATALOG NUMBER: GAN-SA9B-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1	6797.1
2.5°	6733.3	6711.5	6662.6	6570.2	6518.5	6475.1	6403.0	6360.9	6341.9	6340.5	6348.7
5°	6566.1	6515.8	6389.5	6234.5	6110.9	5998.1	5858.1	5773.9	5714.1	5678.8	5688.3
7.5°	6371.8	6293.0	6094.6	5847.3	5648.9	5430.1	5214.0	5084.9	4984.4	4909.6	4923.2
10°	6238.6	6129.9	5840.5	5484.4	5154.2	4836.3	4538.7	4360.6	4219.3	4110.6	4118.8
12.5°	6193.8	6047.0	5646.1	5170.5	4707.2	4272.3	3883.7	3610.5	3465.1	3341.5	3351.0
15°	6200.6	6003.5	5483.1	4887.9	4304.9	3757.3	3285.8	2966.4	2769.4	2683.8	2685.1
17.5°	6206.0	5953.3	5311.9	4584.9	3906.8	3276.3	2764.0	2440.5	2254.4	2175.6	2176.9
20°	6188.3	5871.7	5099.9	4237.0	3491.0	2834.6	2338.6	2064.1	1922.8	1861.7	1861.7
22.5°	6165.2	5775.2	4860.7	3887.8	3080.6	2451.4	2034.2	1825.0	1743.4	1702.7	1701.3
25°	6176.1	5703.2	4616.1	3529.0	2702.8	2145.7	1831.8	1693.2	1638.8	1613.0	1611.6
27.5°	6234.5	5669.2	4390.5	3171.6	2372.6	1916.0	1695.9	1598.0	1562.7	1546.4	1546.4
30°	6340.5	5669.2	4155.5	2867.2	2098.1	1746.2	1591.2	1524.7	1500.2	1489.3	1489.3
32.5°	6525.3	5700.5	3928.5	2565.6	1879.3	1613.0	1504.3	1459.4	1440.4	1435.0	1435.0
35°	6843.3	5806.5	3707.0	2280.2	1702.7	1504.3	1421.4	1395.6	1382.0	1380.6	1384.7
37.5°	7290.4	6022.6	3499.1	2069.6	1577.7	1416.0	1352.1	1331.7	1323.5	1330.3	1335.8
40°	7853.0	6316.1	3310.2	1879.3	1482.5	1345.3	1288.2	1274.6	1270.6	1280.1	1288.2
42.5°	8532.4	6712.9	3155.3	1742.1	1409.2	1285.5	1233.9	1217.6	1213.5	1224.4	1235.2
45°	9267.6	7139.6	3046.6	1640.2	1352.1	1240.7	1186.3	1168.6	1160.5	1165.9	1178.1
47.5°	9936.1	7543.1	3003.1	1568.1	1297.7	1202.6	1144.2	1122.4	1108.8	1106.1	1115.6
50°	10500.1	7843.5	3023.5	1524.7	1254.2	1160.5	1103.4	1079.0	1058.6	1046.3	1053.1
52.5°	10910.4	8032.3	3042.5	1505.6	1220.3	1114.3	1058.6	1035.5	1008.3	987.9	987.9
55°	11208.0	8075.8	3000.4	1490.7	1194.5	1064.0	1008.3	986.5	959.4	936.3	933.6
57.5°	11324.9	7953.5	2844.1	1468.9	1176.8	1016.4	955.3	939.0	915.9	888.7	887.3
60°	11167.3	7575.8	2542.5	1422.7	1153.7	977.0	902.3	891.4	880.6	854.7	853.4
62.5°	10534.0	6746.8	2152.5	1329.0	1107.5	934.9	853.4	858.8	860.2	842.5	839.8
65°	9385.8	5608.1	1772.0	1206.7	1038.2	884.6	803.1	828.9	843.9	841.1	837.1
67.5°	7717.1	4364.7	1501.6	1077.6	947.1	815.3	748.7	778.6	790.9	800.4	797.7
70°	5727.7	3077.9	1242.0	941.7	837.1	733.8	678.1	693.0	684.9	695.7	699.8
72.5°	3193.4	1846.7	1012.4	805.8	722.9	638.7	599.3	596.5	578.9	578.9	578.9
74°	1916.0	1354.8	890.1	721.6	653.6	576.2	542.2	530.0	513.7	515.0	513.7
75°	1541.0	1164.6	816.7	665.9	604.7	539.5	505.5	489.2	477.0	477.0	475.6
77.5°	973.0	884.6	657.7	530.0	483.8	444.4	421.3	399.5	399.5	398.2	396.8
80°	735.2	703.9	512.3	400.9	371.0	341.1	326.1	316.6	316.6	320.7	319.3
82.5°	504.1	530.0	360.1	279.9	265.0	243.2	240.5	241.9	237.8	232.4	231.0
85°	368.3	398.2	243.2	176.7	161.7	148.1	159.0	164.4	157.6	145.4	140.0
87.5°	141.3	260.9	130.5	73.4	67.9	58.4	67.9	70.7	76.1	59.8	61.1
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)