

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: P317882

Luminaire Tested: **GAN-SA8B-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34423 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 334
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

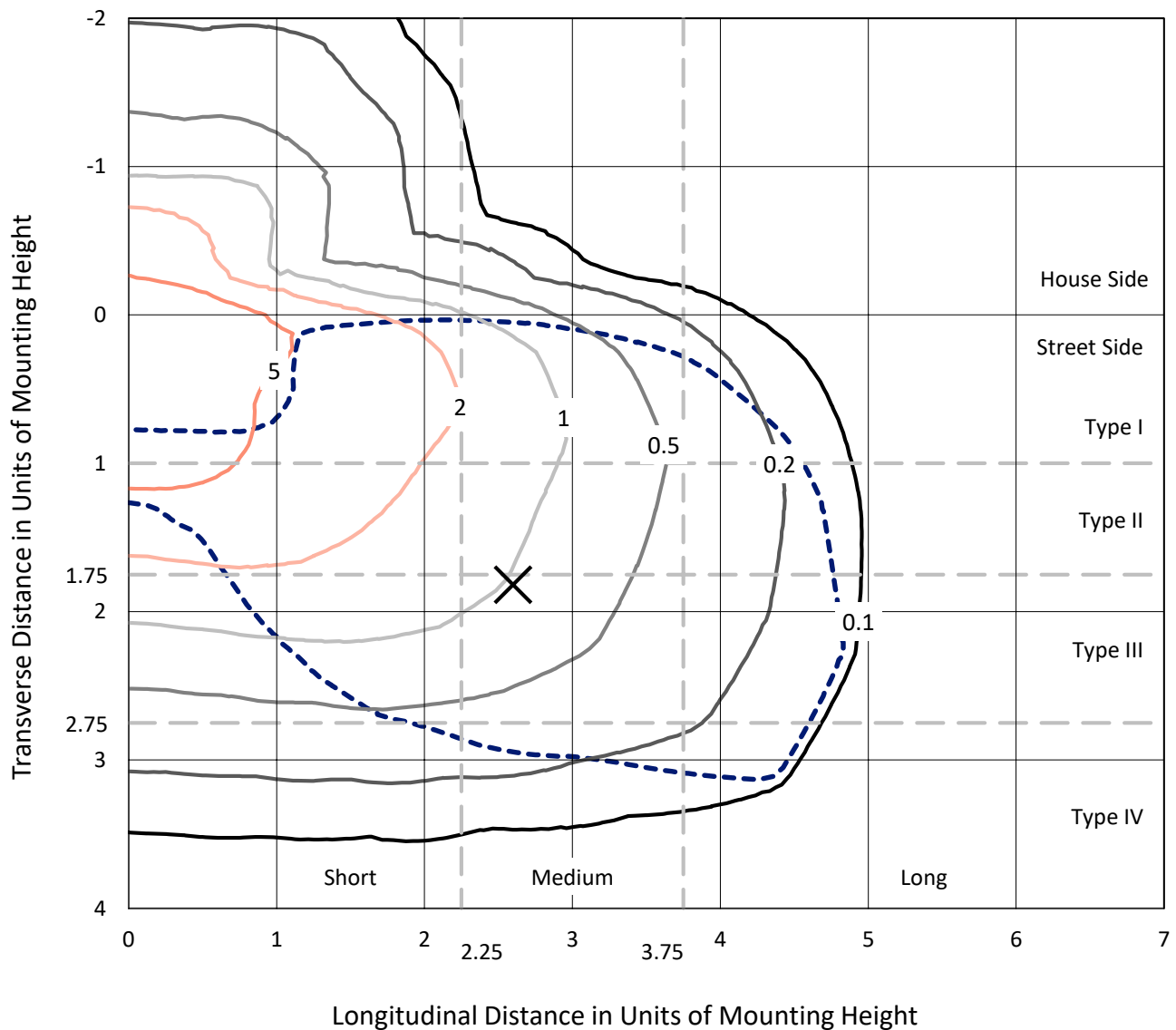


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Iso-Footcandle Lines of Horizontal Illumination

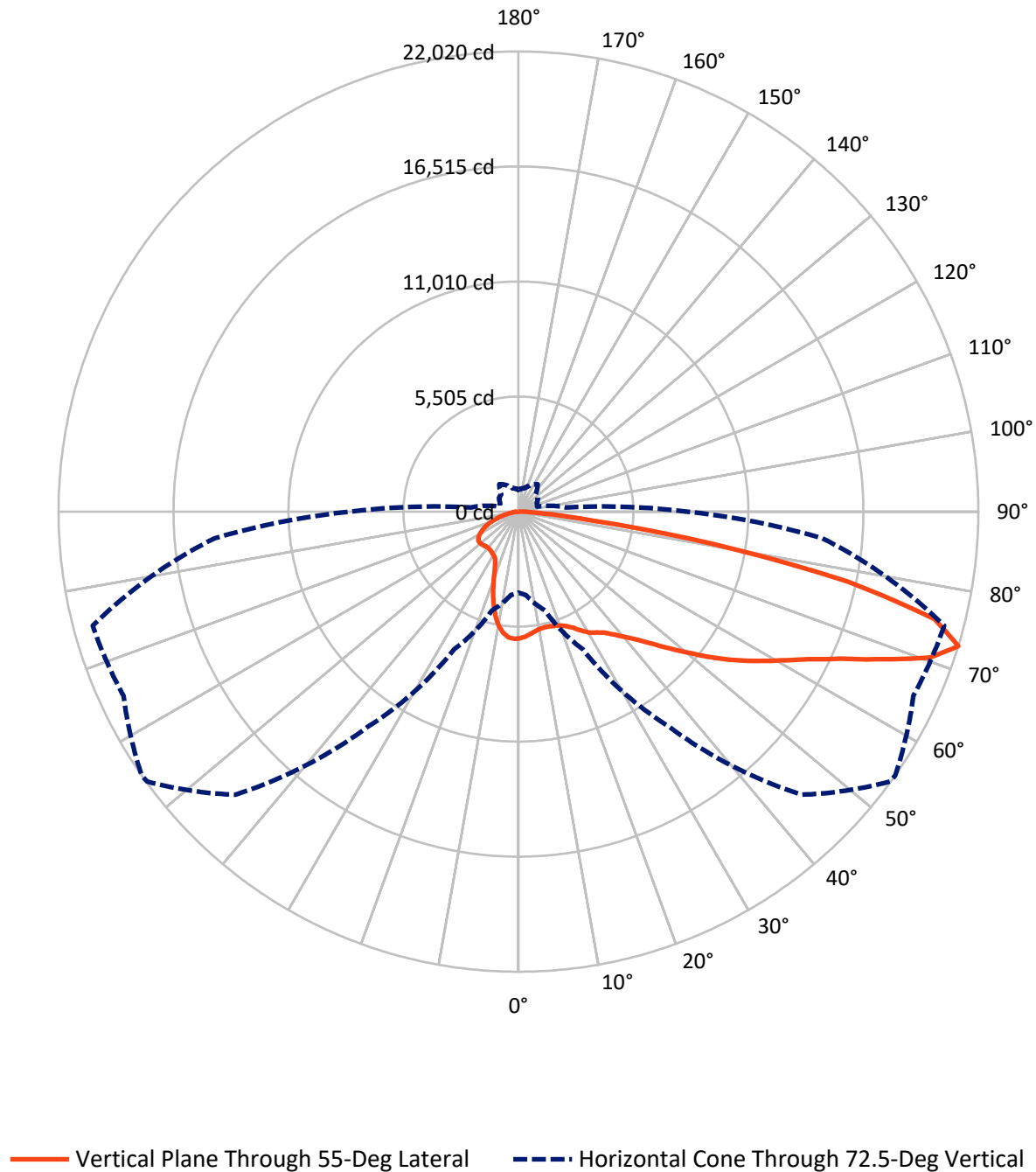
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6398.1	0.0	6398.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	28024.9	0.0	28024.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	34423.0	0.0	34423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.4	1.6
10°-20°	1462.7	4.2
20°-30°	2411.6	7.0
30°-40°	3567.4	10.4
40°-50°	4979.3	14.5
50°-60°	6483.3	18.8
60°-70°	7967.7	23.1
70°-80°	6245.7	18.1
80°-90°	755.8	2.2
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°	34423.0	100.0
0°-180°	34423.0	100.0

Coefficient of Utilization



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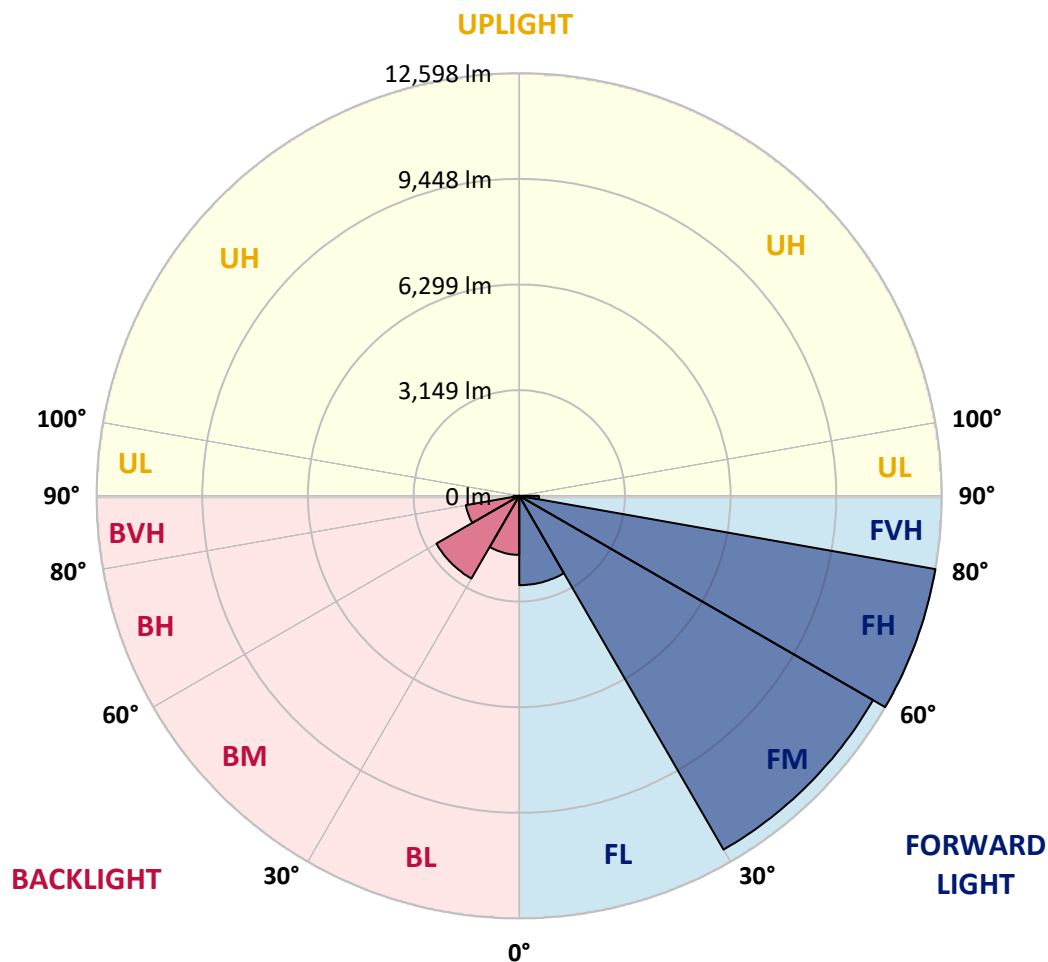
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2663.3	7.7			
FM	(30°-60°)	12179.5	35.4			
FH	(60°-80°)	12597.7	36.6			G5
FVH	(80°-90°)	584.4	1.7			G4/750
BL	(0°-30°)	1760.4	5.1	B3/2500		
BM	(30°-60°)	2850.5	8.3	B3/5000		
BH	(60°-80°)	1615.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	171.5	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6071.5	6071.5	6071.5	6071.5	6071.5	6071.5	6071.5	6071.5	6071.5	6071.5	6071.5
2.5°	5873.8	5859.9	5877.3	5901.7	5928.5	5964.5	5985.4	5994.7	6030.8	6044.7	6075.0
5°	5601.8	5594.8	5623.8	5665.7	5725.0	5808.7	5876.1	5888.9	5984.3	6051.7	6113.3
7.5°	5404.1	5404.1	5437.8	5487.8	5554.1	5666.9	5762.2	5779.6	5941.3	6086.6	6200.5
10°	5247.1	5253.0	5292.5	5351.8	5429.7	5549.4	5676.2	5695.9	5929.6	6168.0	6349.4
12.5°	5142.5	5156.5	5192.5	5246.0	5342.5	5487.8	5648.3	5675.0	5954.0	6284.2	6528.4
15°	5208.8	5232.0	5235.5	5257.6	5311.1	5469.2	5664.5	5692.4	6006.4	6402.8	6731.9
17.5°	5499.4	5507.6	5471.5	5425.0	5399.5	5500.6	5713.4	5742.4	6069.2	6520.3	6927.2
20°	5941.3	5936.6	5858.7	5733.1	5602.9	5619.2	5793.6	5823.8	6154.0	6623.7	7122.5
22.5°	6499.3	6483.1	6363.3	6131.9	5909.9	5816.9	5934.3	5959.9	6281.9	6771.4	7331.8
25°	7176.0	7140.0	6981.8	6671.4	6344.7	6105.2	6145.9	6170.3	6467.9	6936.5	7523.7
27.5°	7889.9	7853.9	7652.7	7277.2	6842.3	6469.1	6437.7	6458.6	6679.6	7058.6	7665.5
30°	8636.3	8598.0	8414.3	7993.4	7370.2	6845.8	6709.8	6717.9	6828.4	7124.9	7781.8
32.5°	9386.3	9350.2	9144.4	8656.1	7943.4	7250.4	6906.3	6895.8	6917.9	7193.5	7913.2
35°	10146.6	10160.6	9919.9	9379.3	8578.2	7700.4	7138.8	7116.7	7067.9	7334.1	8099.2
37.5°	10960.5	10951.2	10639.6	10074.6	9242.1	8188.7	7472.5	7469.0	7300.4	7600.4	8391.0
40°	11504.6	11510.5	11320.9	10786.1	9912.9	8729.3	7900.4	7892.2	7671.3	7999.2	8773.5
42.5°	11717.4	11755.8	11804.6	11465.1	10615.2	9356.0	8410.8	8399.1	8188.7	8571.2	9223.5
45°	11732.5	11809.3	12111.6	12068.5	11326.8	10073.4	9063.0	9030.5	8879.3	9331.6	9760.6
47.5°	11602.3	11681.4	12183.6	12427.8	11962.7	10830.3	9825.7	9800.2	9669.9	10282.7	10342.0
50°	11317.5	11393.0	12034.8	12603.4	12485.9	11558.1	10704.7	10637.3	10567.5	11381.4	11007.0
52.5°	10783.8	10929.1	11836.0	12645.2	12798.7	12204.6	11629.1	11584.9	11623.2	12540.6	11673.2
55°	9520.0	9682.7	11323.3	12610.3	13030.1	12747.5	12553.4	12551.1	12749.9	13756.7	12388.3
57.5°	8811.9	8927.0	10279.2	12551.1	13304.5	13287.0	13468.4	13490.5	13877.7	15081.0	13137.0
60°	8411.9	8532.9	9750.2	12331.3	13730.0	13984.6	14402.0	14446.2	15024.1	16547.2	14038.1
62.5°	8048.0	8180.6	9422.3	11883.7	14231.1	14982.2	15520.5	15560.0	16237.9	18054.0	14909.0
65°	7426.0	7576.0	8942.1	11589.5	14686.9	16283.2	16942.5	16969.2	17631.9	19632.9	15575.2
67.5°	6547.0	6684.2	8036.4	10939.6	15024.1	17863.3	18833.0	18848.1	19014.3	20747.9	15915.8
70°	5520.4	5572.7	6745.8	9597.9	14625.3	19341.1	20904.9	20908.3	20274.7	21461.8	15860.0
72.5°	3878.7	4001.9	4897.2	7265.5	12568.5	19160.8	21980.3	22019.9	20860.7	21101.3	14592.7
75°	2378.8	2509.0	3071.8	4403.0	7973.6	15069.4	20308.4	20582.8	19761.9	18814.4	11920.9
77.5°	1590.5	1639.4	2004.4	2567.2	3612.4	8670.0	15613.5	16129.8	16416.9	13720.7	7623.6
80°	887.1	980.1	1328.9	1595.2	1606.8	3445.0	9361.8	9482.8	9134.0	5463.4	2352.1
82.5°	469.7	520.9	887.1	937.1	876.7	1153.4	3489.2	3492.7	2918.3	1465.0	698.8
85°	363.9	406.9	608.1	572.0	447.6	511.6	1151.0	1213.8	992.9	599.9	227.9
87.5°	181.4	225.6	412.7	362.8	175.6	146.5	411.6	439.5	391.8	234.9	82.5
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°	6071.5	6071.5	6071.5	6071.5	6071.5	6071.5	6071.5	6071.5	6071.5	6071.5	6071.5
2.5°	6086.6	6097.1	6109.8	6095.9	6091.2	6072.6	6041.2	6034.3	6018.0	6019.2	6028.5
5°	6140.1	6157.5	6150.5	6097.1	6033.1	5943.6	5850.6	5771.5	5719.2	5715.7	5712.2
7.5°	6242.4	6254.0	6199.4	6047.1	5868.0	5661.1	5465.7	5294.8	5191.3	5165.8	5159.9
10°	6402.8	6400.5	6250.5	5943.6	5586.6	5216.9	4903.0	4665.8	4527.4	4486.8	4476.3
12.5°	6581.9	6555.1	6268.0	5755.2	5189.0	4676.3	4278.6	4014.7	3870.5	3824.0	3812.4
15°	6766.8	6700.5	6224.9	5473.9	4700.7	4093.8	3676.4	3432.2	3354.3	3328.7	3324.1
17.5°	6938.8	6810.9	6101.7	5092.5	4143.8	3513.6	3188.0	3090.4	3109.0	3142.7	3143.9
20°	7107.4	6885.3	5904.1	4611.2	3556.6	3035.7	2925.3	2997.4	3085.7	3154.3	3163.6
22.5°	7273.7	6937.7	5649.4	4055.4	3031.1	2767.2	2845.1	2976.4	3077.6	3152.0	3164.8
25°	7413.2	6950.5	5298.3	3462.4	2666.0	2666.0	2806.7	2931.1	3031.1	3104.3	3117.1
27.5°	7464.4	6864.4	4803.0	2913.7	2482.3	2619.5	2753.2	2856.7	2941.6	3019.5	3033.4
30°	7484.1	6705.1	4231.0	2473.0	2406.7	2569.5	2681.1	2769.5	2849.7	2923.0	2935.7
32.5°	7487.6	6513.3	3624.1	2223.0	2354.4	2517.2	2591.6	2669.5	2755.5	2784.6	2789.3
35°	7509.7	6286.6	2984.6	2095.1	2305.6	2468.4	2527.7	2583.5	2443.9	2454.4	2463.7
37.5°	7573.6	6062.2	2449.8	2023.1	2274.2	2442.8	2513.7	2311.4	2202.1	2176.5	2173.0
40°	7693.4	5822.7	2053.3	1964.9	2262.6	2455.6	2424.2	2157.9	1969.6	1828.9	1808.0
42.5°	7859.7	5564.6	1799.8	1926.5	2270.7	2517.2	2299.8	2010.3	1697.5	1606.8	1595.2
45°	8046.9	5293.6	1662.6	1899.8	2298.6	2564.9	2274.2	1813.8	1570.8	1502.2	1496.4
47.5°	8228.2	4962.3	1591.7	1888.2	2337.0	2526.5	2166.1	1753.3	1510.3	1474.3	1477.8
50°	8436.4	4663.5	1548.7	1875.4	2370.7	2502.1	2044.0	1721.9	1487.1	1531.2	1577.7
52.5°	8611.9	4354.2	1510.3	1849.8	2383.5	2459.1	2012.6	1727.7	1487.1	1571.9	1616.1
55°	8820.0	4120.5	1466.1	1796.3	2359.1	2337.0	1990.5	1762.6	1504.5	1451.0	1455.7
57.5°	9088.6	4043.8	1417.3	1712.6	2277.7	2159.1	1980.0	1796.3	1494.0	1460.3	1471.9
60°	9460.7	4125.2	1397.5	1603.3	2150.9	2019.6	1981.2	1778.9	1420.8	1362.7	1363.8
62.5°	9815.3	4215.9	1396.4	1534.7	1995.1	1895.2	1954.5	1721.9	1383.6	1349.9	1362.7
65°	9931.5	4124.0	1340.6	1458.0	1819.6	1746.3	1905.6	1661.5	1355.7	1304.5	1302.2
67.5°	9775.8	3839.1	1227.8	1333.6	1618.4	1573.1	1841.7	1589.4	1311.5	1269.6	1262.7
70°	9313.0	3203.2	1088.3	1169.6	1389.4	1377.8	1740.5	1505.7	1252.2	1216.2	1185.9
72.5°	8067.8	2282.3	917.3	973.2	1131.3	1168.5	1601.0	1396.4	1168.5	1090.6	1044.1
75°	6626.1	1689.4	753.4	765.0	859.2	960.4	1409.2	1268.5	1069.7	937.1	901.1
77.5°	4057.7	1033.6	599.9	604.6	616.2	766.2	1160.3	1125.5	944.1	781.3	755.7
80°	1313.8	563.9	433.7	455.8	420.9	561.6	897.6	958.0	810.4	653.4	625.5
82.5°	499.9	329.0	293.0	308.1	291.8	376.7	654.6	767.4	663.9	537.2	437.2
85°	241.8	186.0	173.2	194.2	180.2	193.0	418.6	565.1	503.4	350.0	325.5
87.5°	86.0	82.5	66.3	89.5	76.7	68.6	127.9	284.9	332.5	240.7	215.1
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)