

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: P317881

Luminaire Tested: **GAN-SA7B-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317881
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-SA7B-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 30381 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

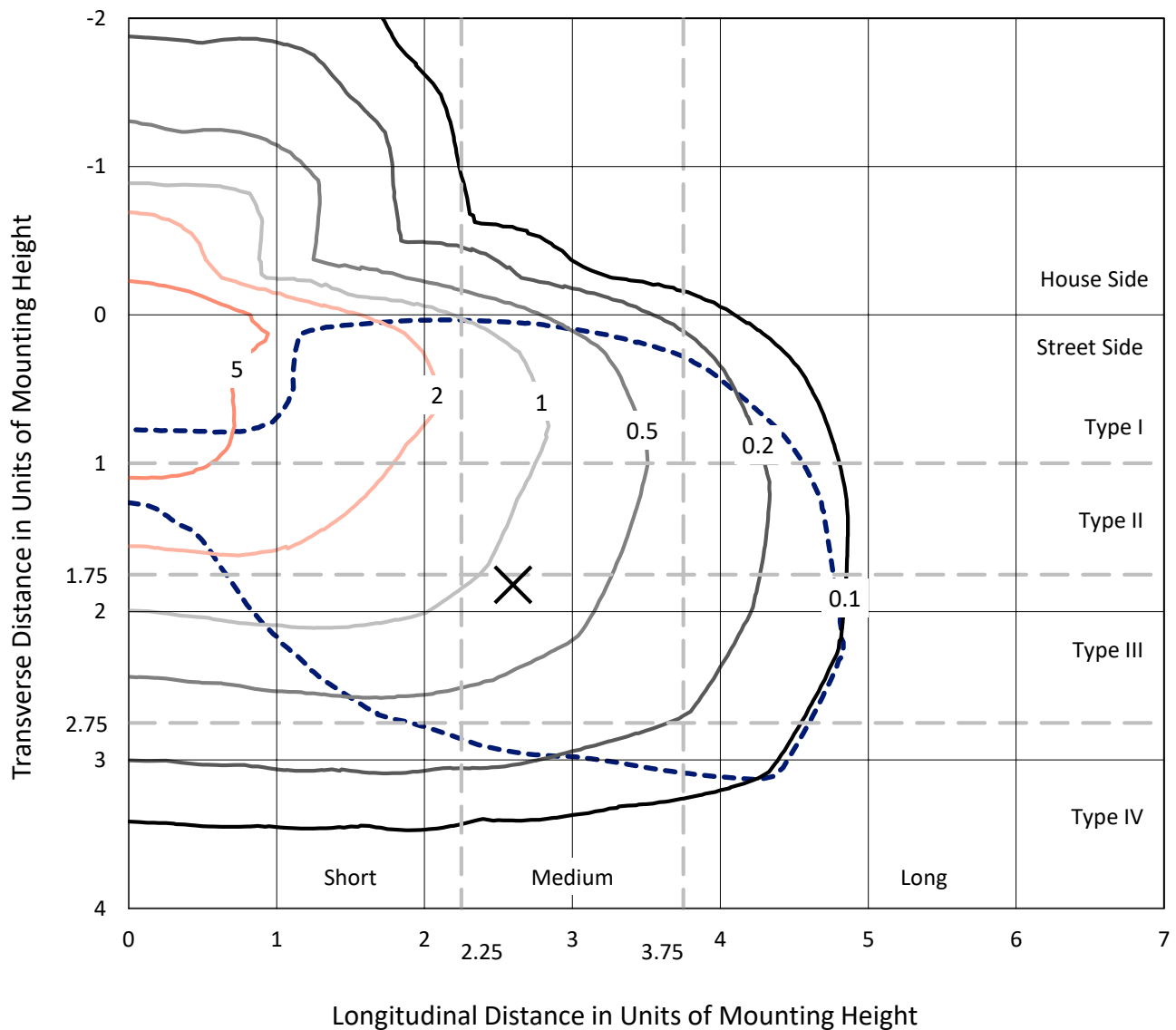
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

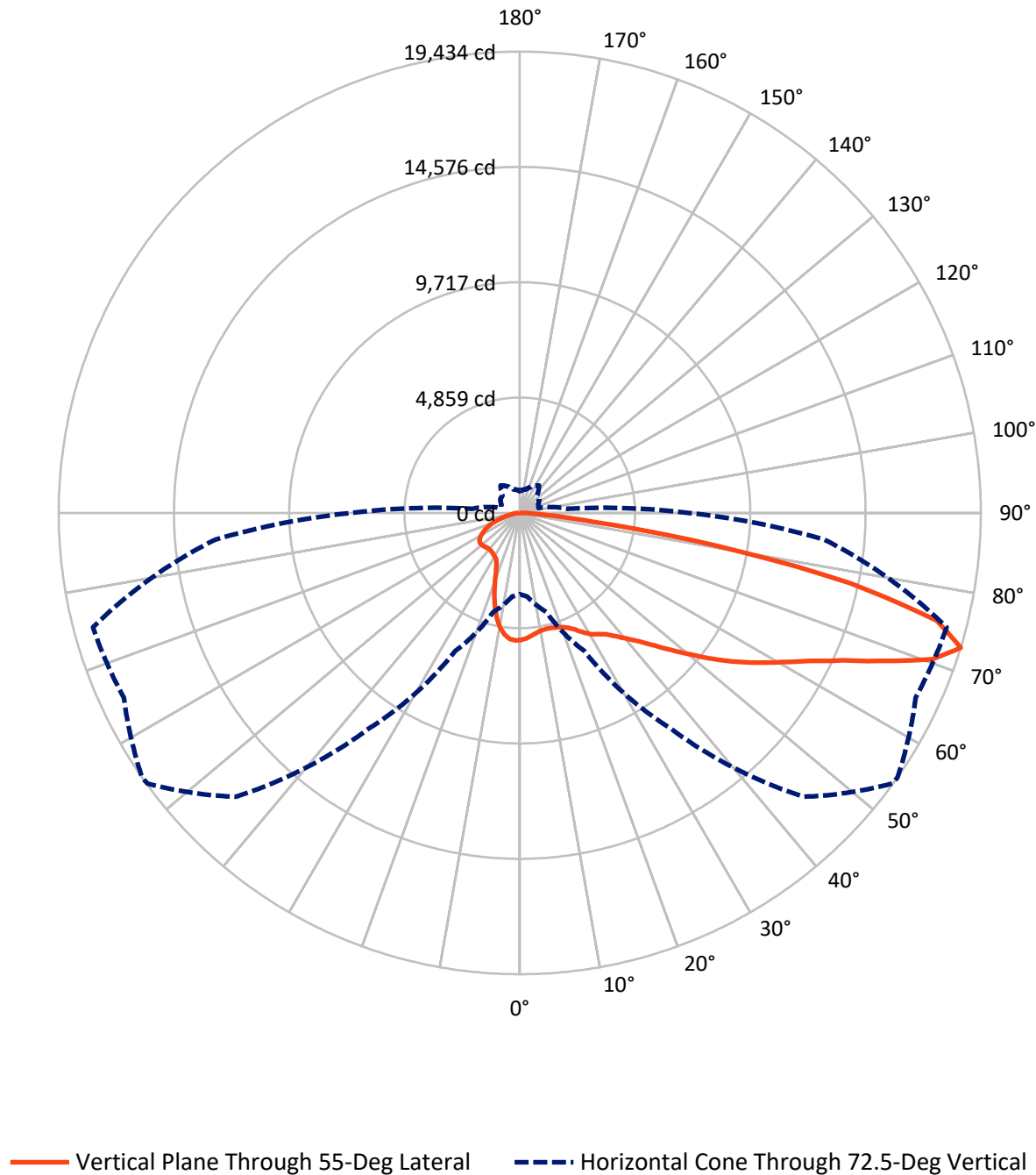
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	5646.8	0.0	5646.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	24734.2	0.0	24734.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	30381.0	0.0	30381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.9	1.6
10°-20°	1290.9	4.2
20°-30°	2128.4	7.0
30°-40°	3148.5	10.4
40°-50°	4394.7	14.5
50°-60°	5722.0	18.8
60°-70°	7032.1	23.1
70°-80°	5512.4	18.1
80°-90°	667.1	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°	30381.0	100.0
0°-180°	30381.0	100.0

Coefficient of Utilization



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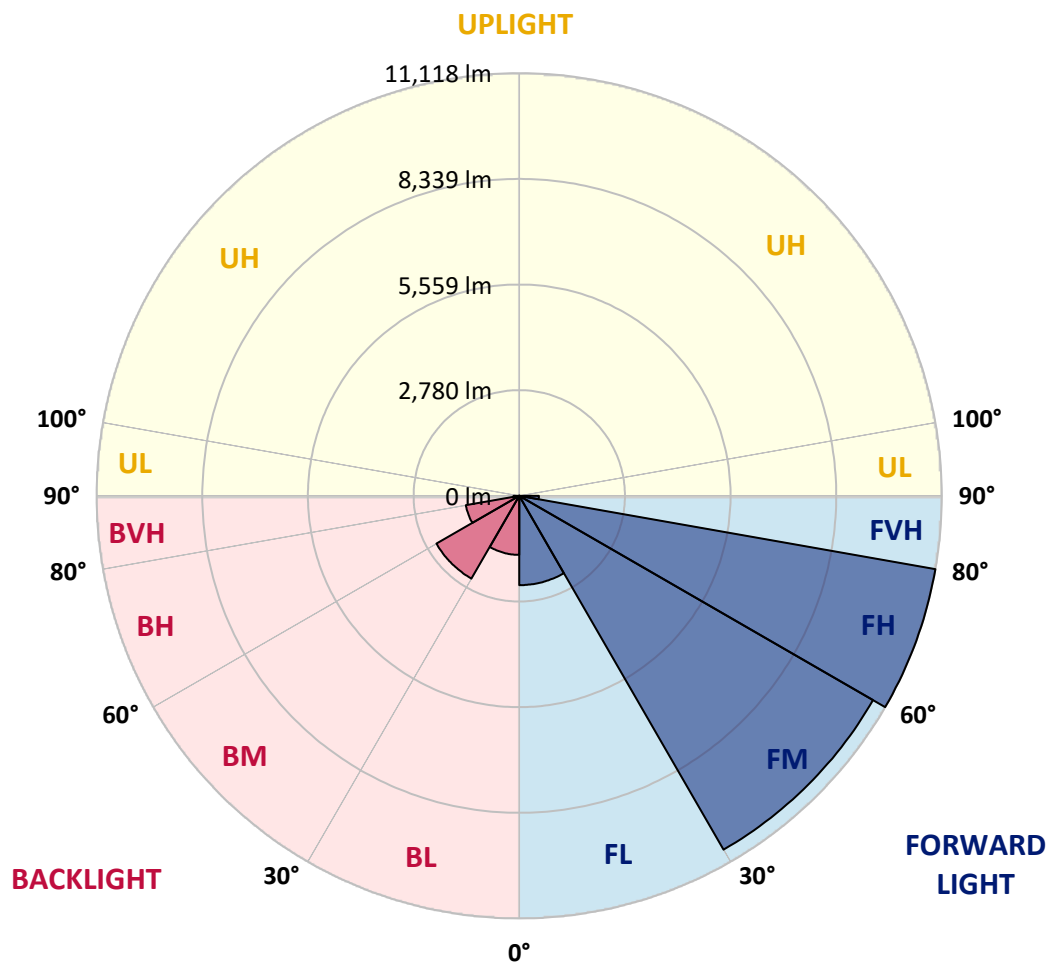
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2350.6	7.7			
FM	(30°-60°)	10749.4	35.4			
FH	(60°-80°)	11118.4	36.6			G4/12000
FVH	(80°-90°)	515.7	1.7			G4/750
BL	(0°-30°)	1553.7	5.1	B3/2500		
BM	(30°-60°)	2515.7	8.3	B3/5000		
BH	(60°-80°)	1426.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	151.3	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-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5358.6	5358.6	5358.6	5358.6	5358.6	5358.6	5358.6	5358.6	5358.6	5358.6	5358.6
2.5°	5184.1	5171.8	5187.2	5208.7	5232.3	5264.1	5282.6	5290.8	5322.6	5335.0	5361.6
5°	4944.0	4937.8	4963.5	5000.4	5052.8	5126.6	5186.2	5197.4	5281.6	5341.1	5395.5
7.5°	4769.5	4769.5	4799.3	4843.4	4901.9	5001.5	5085.6	5101.0	5243.6	5371.9	5472.5
10°	4631.0	4636.1	4671.0	4723.4	4792.1	4897.8	5009.7	5027.1	5233.4	5443.7	5603.8
12.5°	4538.7	4551.0	4582.8	4630.0	4715.2	4843.4	4985.0	5008.6	5254.9	5546.3	5761.8
15°	4597.2	4617.7	4620.8	4640.2	4687.5	4827.0	4999.4	5024.0	5301.1	5651.0	5941.4
17.5°	4853.7	4860.9	4829.1	4788.0	4765.4	4854.7	5042.5	5068.2	5356.5	5754.6	6113.8
20°	5243.6	5239.5	5170.8	5059.9	4945.0	4959.4	5113.3	5140.0	5431.4	5846.0	6286.2
22.5°	5736.2	5721.8	5616.1	5411.9	5215.9	5133.8	5237.5	5260.0	5544.3	5976.3	6470.9
25°	6333.4	6301.6	6162.0	5888.0	5599.7	5388.3	5424.2	5445.8	5708.5	6122.0	6640.2
27.5°	6963.5	6931.6	6754.1	6422.7	6038.9	5709.5	5681.8	5700.3	5895.2	6229.8	6765.4
30°	7622.2	7588.4	7426.2	7054.8	6504.8	6042.0	5921.9	5929.1	6026.6	6288.2	6868.0
32.5°	8284.1	8252.3	8070.7	7639.7	7010.7	6399.1	6095.3	6086.1	6105.6	6348.8	6984.0
35°	8955.2	8967.5	8755.1	8278.0	7570.9	6796.2	6300.6	6281.1	6238.0	6473.0	7148.2
37.5°	9673.5	9665.3	9390.3	8891.6	8156.9	7227.2	6595.1	6592.0	6443.2	6707.9	7405.7
40°	10153.8	10158.9	9991.6	9519.6	8749.0	7704.3	6972.7	6965.5	6770.5	7059.9	7743.3
42.5°	10341.5	10375.4	10418.5	10118.9	9368.7	8257.4	7423.2	7412.9	7227.2	7564.8	8140.4
45°	10354.9	10422.6	10689.4	10651.4	9996.8	8890.6	7998.8	7970.1	7836.7	8235.9	8614.5
47.5°	10239.9	10309.7	10753.0	10968.5	10558.1	9558.6	8672.0	8649.4	8534.5	9075.3	9127.6
50°	9988.5	10055.2	10621.7	11123.5	11019.8	10201.0	9447.8	9388.2	9326.7	10045.0	9714.6
52.5°	9517.5	9645.8	10446.2	11160.4	11295.9	10771.5	10263.6	10224.6	10258.4	11068.1	10302.5
55°	8402.1	8545.8	9993.7	11129.6	11500.1	11250.7	11079.3	11077.3	11252.8	12141.4	10933.6
57.5°	7777.2	7878.8	9072.2	11077.3	11742.2	11726.8	11886.9	11906.4	12248.1	13310.2	11594.5
60°	7424.2	7530.9	8605.3	10883.3	12117.8	12342.5	12710.9	12749.9	13259.9	14604.2	12389.7
62.5°	7103.0	7220.0	8315.9	10488.3	12560.1	13223.0	13698.1	13733.0	14331.2	15934.1	13158.3
65°	6554.0	6686.4	7892.1	10228.7	12962.3	14371.2	14953.1	14976.7	15561.6	17327.6	13746.3
67.5°	5778.3	5899.3	7092.7	9655.0	13259.9	15765.8	16621.6	16634.9	16781.7	18311.6	14047.0
70°	4872.2	4918.3	5953.7	8470.9	12907.9	17070.0	18450.2	18453.3	17894.0	18941.7	13997.7
72.5°	3423.2	3532.0	4322.1	6412.4	11092.7	16911.0	19399.4	19434.3	18411.2	18623.6	12879.2
75°	2099.5	2214.4	2711.1	3886.0	7037.3	13299.9	17923.8	18165.9	17441.5	16605.2	10521.1
77.5°	1403.8	1446.9	1769.1	2265.7	3188.2	7652.0	13780.2	14235.8	14489.2	12109.6	6728.5
80°	783.0	865.0	1172.9	1407.9	1418.1	3040.5	8262.6	8369.3	8061.4	4821.9	2075.9
82.5°	414.6	459.7	783.0	827.1	773.7	1017.9	3079.5	3082.6	2575.6	1292.9	616.7
85°	321.2	359.2	536.7	504.9	395.1	451.5	1015.9	1071.3	876.3	529.5	201.1
87.5°	160.1	199.1	364.3	320.2	154.9	129.3	363.3	387.9	345.8	207.3	72.9
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°	5358.6	5358.6	5358.6	5358.6	5358.6	5358.6	5358.6	5358.6	5358.6	5358.6	5358.6
2.5°	5371.9	5381.1	5392.4	5380.1	5376.0	5359.6	5331.9	5325.7	5311.4	5312.4	5320.6
5°	5419.1	5434.5	5428.3	5381.1	5324.7	5245.7	5163.6	5093.8	5047.6	5044.6	5041.5
7.5°	5509.4	5519.7	5471.4	5337.0	5179.0	4996.3	4823.9	4673.1	4581.8	4559.2	4554.1
10°	5651.0	5649.0	5516.6	5245.7	4930.7	4604.3	4327.3	4117.9	3995.8	3959.9	3950.7
12.5°	5809.0	5785.4	5532.0	5079.4	4579.7	4127.2	3776.2	3543.3	3416.1	3375.0	3364.7
15°	5972.2	5913.7	5494.0	4831.1	4148.7	3613.1	3244.7	3029.2	2960.4	2937.9	2933.8
17.5°	6124.1	6011.2	5385.2	4494.5	3657.2	3101.0	2813.7	2727.5	2743.9	2773.7	2774.7
20°	6272.9	6076.9	5210.8	4069.7	3139.0	2679.3	2581.8	2645.4	2723.4	2783.9	2792.2
22.5°	6419.6	6123.0	4986.1	3579.2	2675.2	2442.2	2511.0	2626.9	2716.2	2781.9	2793.2
25°	6542.7	6134.3	4676.2	3055.9	2353.0	2353.0	2477.1	2586.9	2675.2	2739.8	2751.1
27.5°	6587.9	6058.4	4239.0	2571.5	2190.8	2311.9	2429.9	2521.3	2596.2	2664.9	2677.2
30°	6605.3	5917.8	3734.2	2182.6	2124.1	2267.8	2366.3	2444.3	2515.1	2579.7	2591.0
32.5°	6608.4	5748.5	3198.5	1962.0	2078.0	2221.6	2287.3	2356.0	2432.0	2457.6	2461.7
35°	6627.9	5548.4	2634.1	1849.1	2034.9	2178.5	2230.8	2280.1	2157.0	2166.2	2174.4
37.5°	6684.3	5350.3	2162.1	1785.5	2007.1	2155.9	2218.5	2040.0	1943.5	1921.0	1917.9
40°	6790.0	5139.0	1812.2	1734.2	1996.9	2167.2	2139.5	1904.5	1738.3	1614.1	1595.7
42.5°	6936.8	4911.2	1588.5	1700.3	2004.1	2221.6	2029.7	1774.2	1498.2	1418.1	1407.9
45°	7102.0	4672.1	1467.4	1676.7	2028.7	2263.7	2007.1	1600.8	1386.3	1325.8	1320.7
47.5°	7262.1	4379.6	1404.8	1666.5	2062.6	2229.8	1911.7	1547.4	1333.0	1301.2	1304.2
50°	7445.7	4115.9	1366.8	1655.2	2092.3	2208.3	1804.0	1519.7	1312.4	1351.4	1392.5
52.5°	7600.7	3842.9	1333.0	1632.6	2103.6	2170.3	1776.3	1524.9	1312.4	1387.4	1426.3
55°	7784.4	3636.7	1294.0	1585.4	2082.1	2062.6	1756.8	1555.6	1327.8	1280.6	1284.7
57.5°	8021.4	3568.9	1250.9	1511.5	2010.2	1905.6	1747.5	1585.4	1318.6	1288.8	1299.1
60°	8349.8	3640.8	1233.4	1415.1	1898.4	1782.4	1748.6	1570.0	1254.0	1202.6	1203.7
62.5°	8662.8	3720.8	1232.4	1354.5	1760.9	1672.6	1725.0	1519.7	1221.1	1191.4	1202.6
65°	8765.4	3639.8	1183.2	1286.8	1605.9	1541.3	1681.9	1466.4	1196.5	1151.3	1149.3
67.5°	8627.9	3388.3	1083.6	1177.0	1428.4	1388.4	1625.4	1402.7	1157.5	1120.6	1114.4
70°	8219.5	2827.0	960.5	1032.3	1226.2	1216.0	1536.1	1328.9	1105.2	1073.4	1046.7
72.5°	7120.5	2014.3	809.6	858.9	998.4	1031.3	1413.0	1232.4	1031.3	962.5	921.5
75°	5848.0	1491.0	664.9	675.2	758.3	847.6	1243.7	1119.5	944.1	827.1	795.3
77.5°	3581.3	912.2	529.5	533.6	543.9	676.2	1024.1	993.3	833.2	689.6	667.0
80°	1159.5	497.7	382.8	402.3	371.5	495.6	792.2	845.5	715.2	576.7	552.1
82.5°	441.2	290.4	258.6	271.9	257.6	332.5	577.7	677.3	585.9	474.1	385.8
85°	213.4	164.2	152.9	171.4	159.1	170.3	369.4	498.7	444.3	308.9	287.3
87.5°	75.9	72.9	58.5	79.0	67.7	60.5	112.9	251.4	293.5	212.4	189.8
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)