

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: P317671

Luminaire Tested: **GAN-SA7A-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317671
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-SA7A-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28185 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

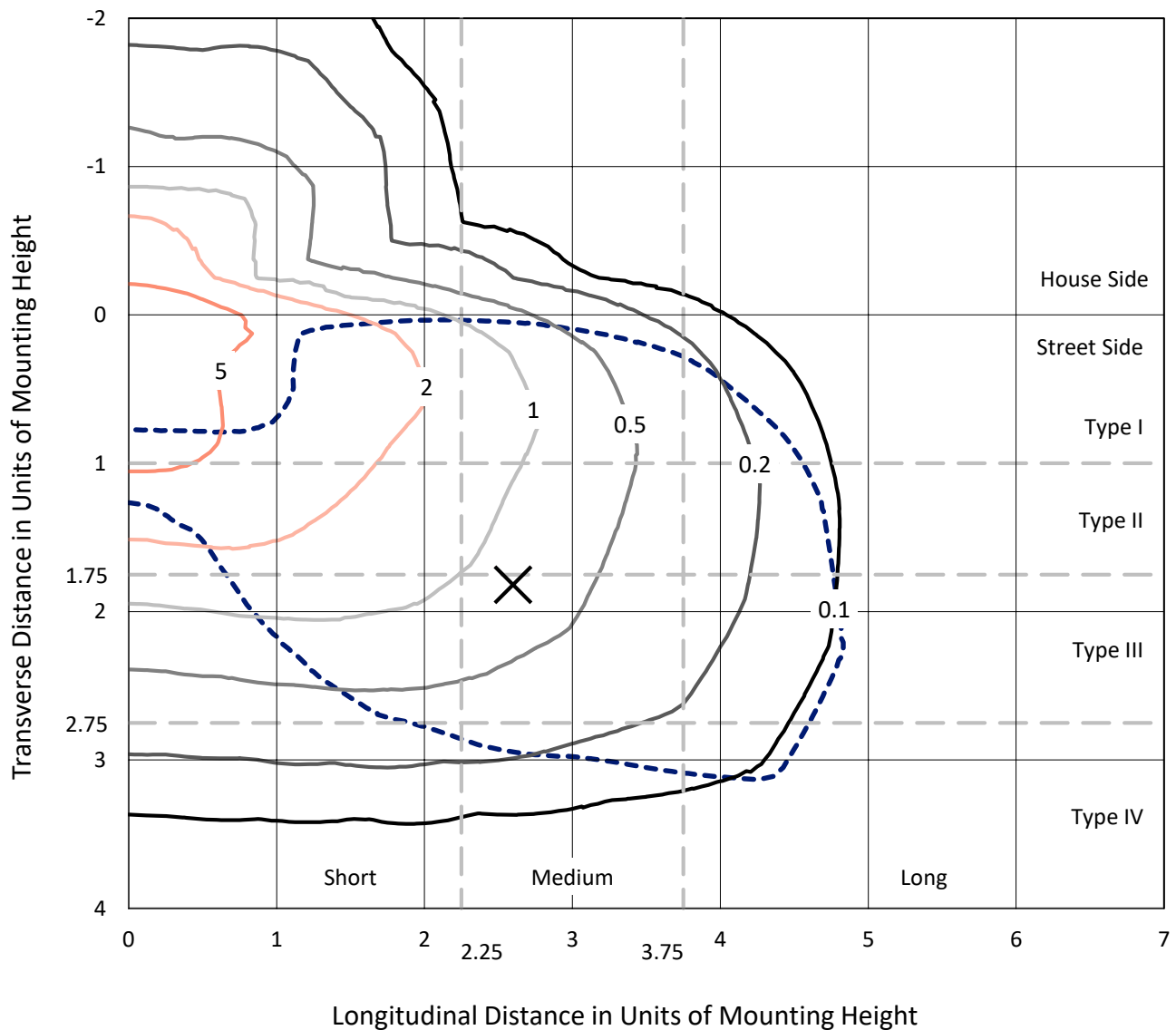
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

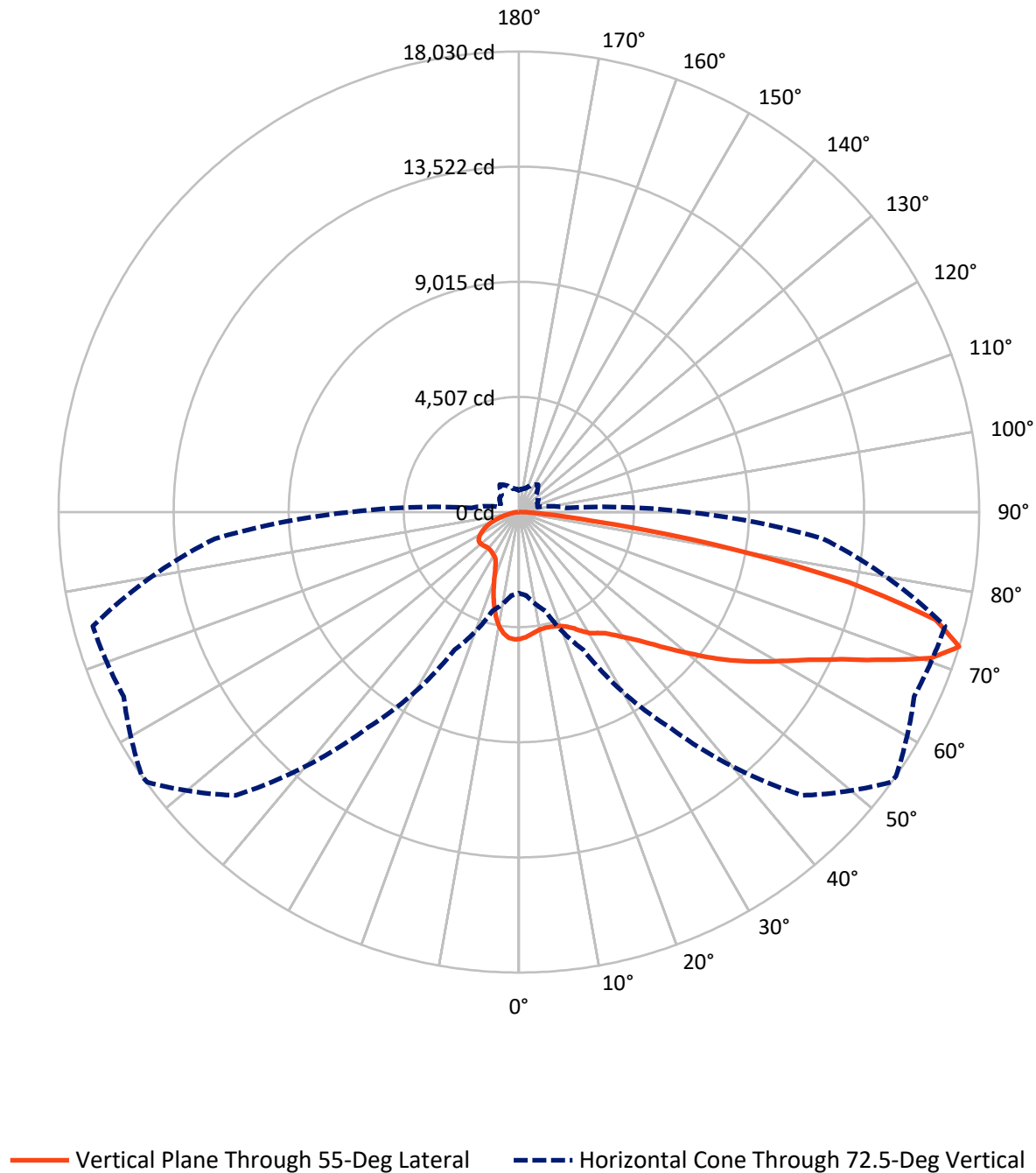
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	5238.7	0.0	5238.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	22946.3	0.0	22946.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	28185.0	0.0	28185.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.8	1.6
10°-20°	1197.6	4.2
20°-30°	1974.6	7.0
30°-40°	2920.9	10.4
40°-50°	4077.0	14.5
50°-60°	5308.4	18.8
60°-70°	6523.8	23.1
70°-80°	5113.9	18.1
80°-90°	618.9	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°	28185.0	100.0
0°-180°	28185.0	100.0

Coefficient of Utilization



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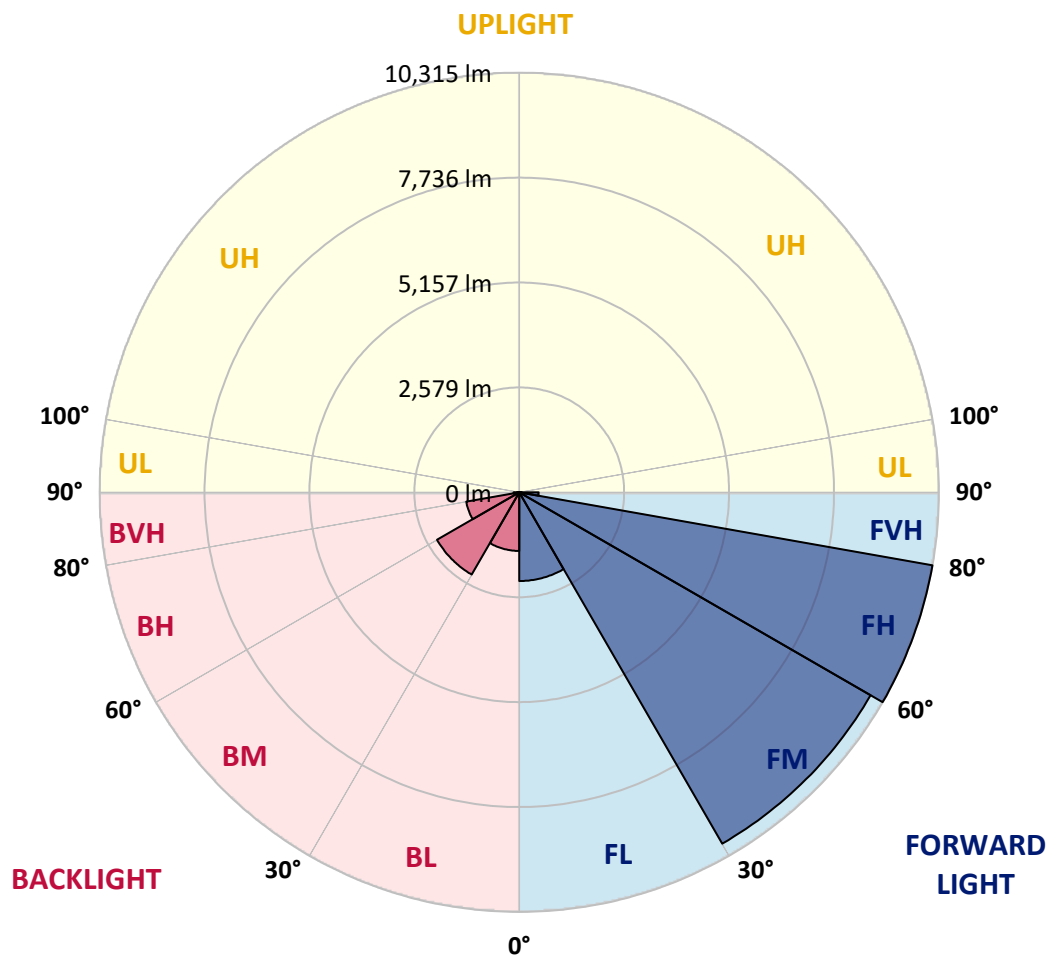
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2180.7	7.7			
FM	(30°-60°)	9972.4	35.4			
FH	(60°-80°)	10314.8	36.6			G4/12000
FVH	(80°-90°)	478.5	1.7			G3/500
BL	(0°-30°)	1441.4	5.1	B3/2500		
BM	(30°-60°)	2333.9	8.3	B2/2500		
BH	(60°-80°)	1323.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	140.4	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°	4971.2	4971.2	4971.2	4971.2	4971.2	4971.2	4971.2	4971.2	4971.2	4971.2	4971.2
2.5°	4809.4	4798.0	4812.2	4832.2	4854.1	4883.6	4900.8	4908.4	4937.9	4949.3	4974.1
5°	4586.6	4580.9	4604.7	4639.0	4687.5	4756.1	4811.3	4821.8	4899.8	4955.0	5005.5
7.5°	4424.8	4424.8	4452.4	4493.3	4547.6	4639.9	4718.0	4732.3	4864.6	4983.6	5076.9
10°	4296.3	4301.0	4333.4	4382.0	4445.7	4543.8	4647.6	4663.7	4855.1	5050.2	5198.8
12.5°	4210.6	4222.0	4251.5	4295.3	4374.3	4493.3	4624.7	4646.6	4875.1	5145.4	5345.4
15°	4264.9	4283.9	4286.8	4304.8	4348.6	4478.1	4638.0	4660.9	4917.9	5242.5	5512.0
17.5°	4502.9	4509.5	4480.0	4441.9	4421.0	4503.8	4678.0	4701.8	4969.3	5338.7	5671.9
20°	4864.6	4860.8	4797.0	4694.2	4587.6	4600.9	4743.7	4768.5	5038.8	5423.4	5831.8
22.5°	5321.6	5308.2	5210.2	5020.7	4838.9	4762.7	4858.9	4879.8	5143.5	5544.3	6003.2
25°	5875.6	5846.1	5716.6	5462.4	5194.9	4998.8	5032.2	5052.1	5295.9	5679.5	6160.2
27.5°	6460.1	6430.6	6265.9	5958.4	5602.4	5296.8	5271.1	5288.2	5469.1	5779.5	6276.4
30°	7071.3	7039.9	6889.5	6544.8	6034.6	5605.2	5493.9	5500.5	5591.0	5833.7	6371.6
32.5°	7685.3	7655.8	7487.3	7087.5	6503.9	5936.5	5654.7	5646.2	5664.3	5889.9	6479.2
35°	8307.9	8319.3	8122.3	7679.6	7023.7	6304.9	5845.1	5827.1	5787.1	6005.1	6631.5
37.5°	8974.3	8966.7	8711.5	8248.9	7567.3	6704.8	6118.4	6115.5	5977.5	6223.1	6870.4
40°	9419.8	9424.6	9269.4	8831.5	8116.6	7147.4	6468.7	6462.0	6281.1	6549.6	7183.6
42.5°	9594.0	9625.4	9665.4	9387.5	8691.6	7660.6	6886.6	6877.1	6704.8	7018.0	7552.0
45°	9606.4	9669.2	9916.8	9881.5	9274.2	8247.9	7420.7	7394.0	7270.3	7640.6	7991.9
47.5°	9499.8	9564.5	9975.8	10175.7	9794.9	8867.7	8045.2	8024.2	7917.6	8419.3	8467.8
50°	9266.6	9328.4	9853.9	10319.4	10223.3	9463.6	8764.9	8709.6	8652.5	9318.9	9012.4
52.5°	8829.6	8948.6	9691.1	10353.7	10479.4	9992.9	9521.7	9485.5	9516.9	10268.0	9557.9
55°	7794.8	7928.1	9271.3	10325.2	10668.8	10437.5	10278.5	10276.6	10439.4	11263.8	10143.3
57.5°	7215.0	7309.3	8416.4	10276.6	10893.5	10879.2	11027.7	11045.8	11362.8	12348.1	10756.4
60°	6887.6	6986.6	7983.3	10096.7	11241.9	11450.4	11792.1	11828.3	12301.5	13548.5	11494.2
62.5°	6589.6	6698.1	7714.8	9730.2	11652.2	12267.2	12708.0	12740.3	13295.3	14782.3	12207.2
65°	6080.3	6203.1	7321.7	9489.3	12025.4	13332.4	13872.2	13894.1	14436.7	16075.1	12752.7
67.5°	5360.6	5472.9	6580.1	8957.2	12301.5	14626.2	15420.1	15432.5	15568.6	16988.0	13031.6
70°	4520.0	4562.8	5523.4	7858.6	11974.9	15836.1	17116.6	17119.4	16600.6	17572.6	12985.9
72.5°	3175.8	3276.7	4009.7	5948.9	10290.9	15688.6	17997.1	18029.5	17080.4	17277.4	11948.3
75°	1947.7	2054.4	2515.1	3605.1	6528.7	12338.6	16628.2	16852.9	16180.8	15404.9	9760.6
77.5°	1302.3	1342.3	1641.2	2102.0	2957.8	7098.9	12784.1	13206.8	13441.9	11234.3	6242.1
80°	726.4	802.5	1088.1	1306.1	1315.6	2820.7	7665.3	7764.3	7478.7	4473.3	1925.9
82.5°	384.6	426.5	726.4	767.3	717.8	944.4	2856.9	2859.7	2389.5	1199.5	572.1
85°	298.0	333.2	497.9	468.4	366.5	418.9	942.5	993.9	813.0	491.2	186.6
87.5°	148.5	184.7	338.0	297.0	143.7	119.9	337.0	359.8	320.8	192.3	67.6
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°	4971.2	4971.2	4971.2	4971.2	4971.2	4971.2	4971.2	4971.2	4971.2	4971.2	4971.2
2.5°	4983.6	4992.2	5002.6	4991.2	4987.4	4972.2	4946.5	4940.8	4927.4	4928.4	4936.0
5°	5027.4	5041.7	5036.0	4992.2	4939.8	4866.5	4790.4	4725.6	4682.8	4679.9	4677.1
7.5°	5111.2	5120.7	5075.9	4951.2	4804.6	4635.2	4475.2	4335.3	4250.6	4229.6	4224.9
10°	5242.5	5240.6	5117.8	4866.5	4574.3	4271.5	4014.5	3820.3	3707.0	3673.7	3665.1
12.5°	5389.1	5367.3	5132.1	4712.3	4248.7	3828.9	3503.3	3287.2	3169.1	3131.1	3121.5
15°	5540.5	5486.2	5096.9	4481.9	3848.8	3351.9	3010.2	2810.2	2746.5	2725.5	2721.7
17.5°	5681.4	5576.7	4996.0	4169.7	3392.8	2876.9	2610.3	2530.4	2545.6	2573.2	2574.1
20°	5819.4	5637.6	4834.1	3775.5	2912.1	2485.6	2395.2	2454.2	2526.5	2582.7	2590.3
22.5°	5955.6	5680.5	4625.7	3320.5	2481.8	2265.7	2329.5	2437.1	2519.9	2580.8	2591.3
25°	6069.8	5690.9	4338.2	2835.0	2182.9	2182.9	2298.1	2399.9	2481.8	2541.8	2552.3
27.5°	6111.7	5620.5	3932.6	2385.7	2032.5	2144.8	2254.3	2339.0	2408.5	2472.3	2483.7
30°	6127.9	5490.1	3464.2	2024.9	1970.6	2103.9	2195.3	2267.6	2333.3	2393.3	2403.7
32.5°	6130.7	5333.0	2967.3	1820.2	1927.8	2061.0	2122.0	2185.7	2256.2	2280.0	2283.8
35°	6148.8	5147.3	2443.7	1715.5	1887.8	2021.0	2069.6	2115.3	2001.1	2009.6	2017.2
37.5°	6201.2	4963.6	2005.8	1656.4	1862.1	2000.1	2058.2	1892.5	1803.0	1782.1	1779.2
40°	6299.2	4767.5	1681.2	1608.8	1852.5	2010.6	1984.9	1766.9	1612.7	1497.5	1480.3
42.5°	6435.4	4556.2	1473.7	1577.4	1859.2	2061.0	1883.0	1646.0	1389.9	1315.6	1306.1
45°	6588.6	4334.4	1361.3	1555.5	1882.1	2100.1	1862.1	1485.1	1286.1	1230.0	1225.2
47.5°	6737.1	4063.0	1303.3	1546.0	1913.5	2068.6	1773.5	1435.6	1236.6	1207.1	1210.0
50°	6907.6	3818.4	1268.0	1535.5	1941.1	2048.7	1673.6	1409.9	1217.6	1253.8	1291.8
52.5°	7051.3	3565.2	1236.6	1514.6	1951.6	2013.4	1647.9	1414.6	1217.6	1287.1	1323.2
55°	7221.7	3373.8	1200.4	1470.8	1931.6	1913.5	1629.8	1443.2	1231.9	1188.1	1191.9
57.5°	7441.6	3311.0	1160.5	1402.3	1864.9	1767.8	1621.2	1470.8	1223.3	1195.7	1205.2
60°	7746.2	3377.6	1144.3	1312.8	1761.2	1653.6	1622.2	1456.5	1163.3	1115.7	1116.7
62.5°	8036.6	3451.9	1143.3	1256.6	1633.6	1551.7	1600.3	1409.9	1132.9	1105.2	1115.7
65°	8131.8	3376.7	1097.6	1193.8	1489.8	1429.9	1560.3	1360.4	1110.0	1068.1	1066.2
67.5°	8004.2	3143.4	1005.3	1091.9	1325.2	1288.0	1507.9	1301.4	1073.8	1039.6	1033.8
70°	7625.3	2622.7	891.1	957.7	1137.6	1128.1	1425.1	1232.8	1025.3	995.8	971.0
72.5°	6605.8	1868.7	751.1	796.8	926.3	956.7	1310.9	1143.3	956.7	893.0	854.9
75°	5425.3	1383.2	616.9	626.4	703.5	786.3	1153.8	1038.6	875.8	767.3	737.8
77.5°	3322.4	846.3	491.2	495.0	504.5	627.4	950.1	921.5	773.0	639.7	618.8
80°	1075.7	461.7	355.1	373.2	344.6	459.8	734.9	784.4	663.5	535.0	512.2
82.5°	409.4	269.4	239.9	252.3	238.9	308.4	536.0	628.3	543.6	439.8	357.9
85°	198.0	152.3	141.8	159.0	147.6	158.0	342.7	462.7	412.2	286.5	266.6
87.5°	70.4	67.6	54.3	73.3	62.8	56.2	104.7	233.2	272.3	197.1	176.1
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)