

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: P317700

Luminaire Tested: **GAN-SA6D-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317700
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-SA6D-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39680 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

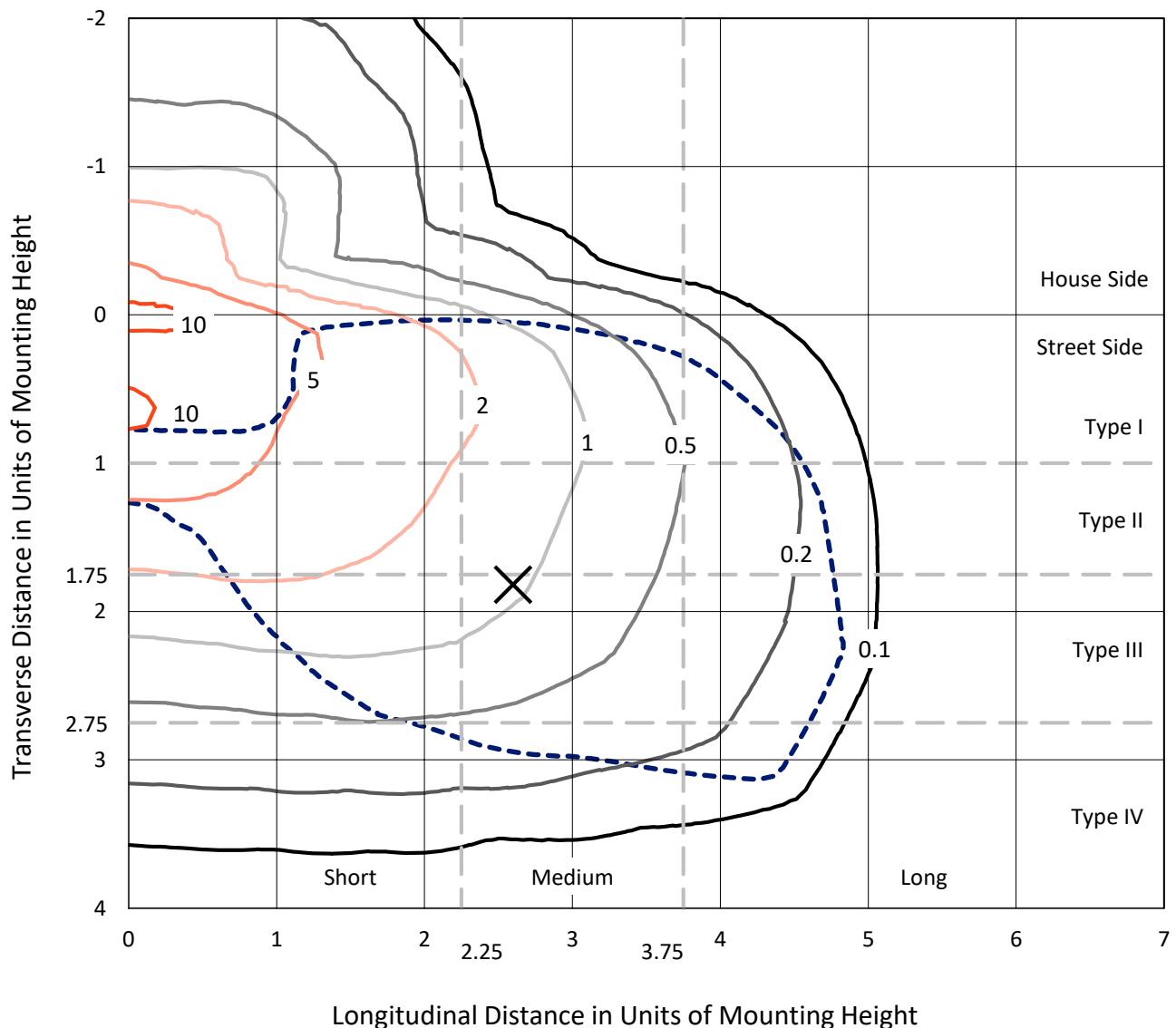
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

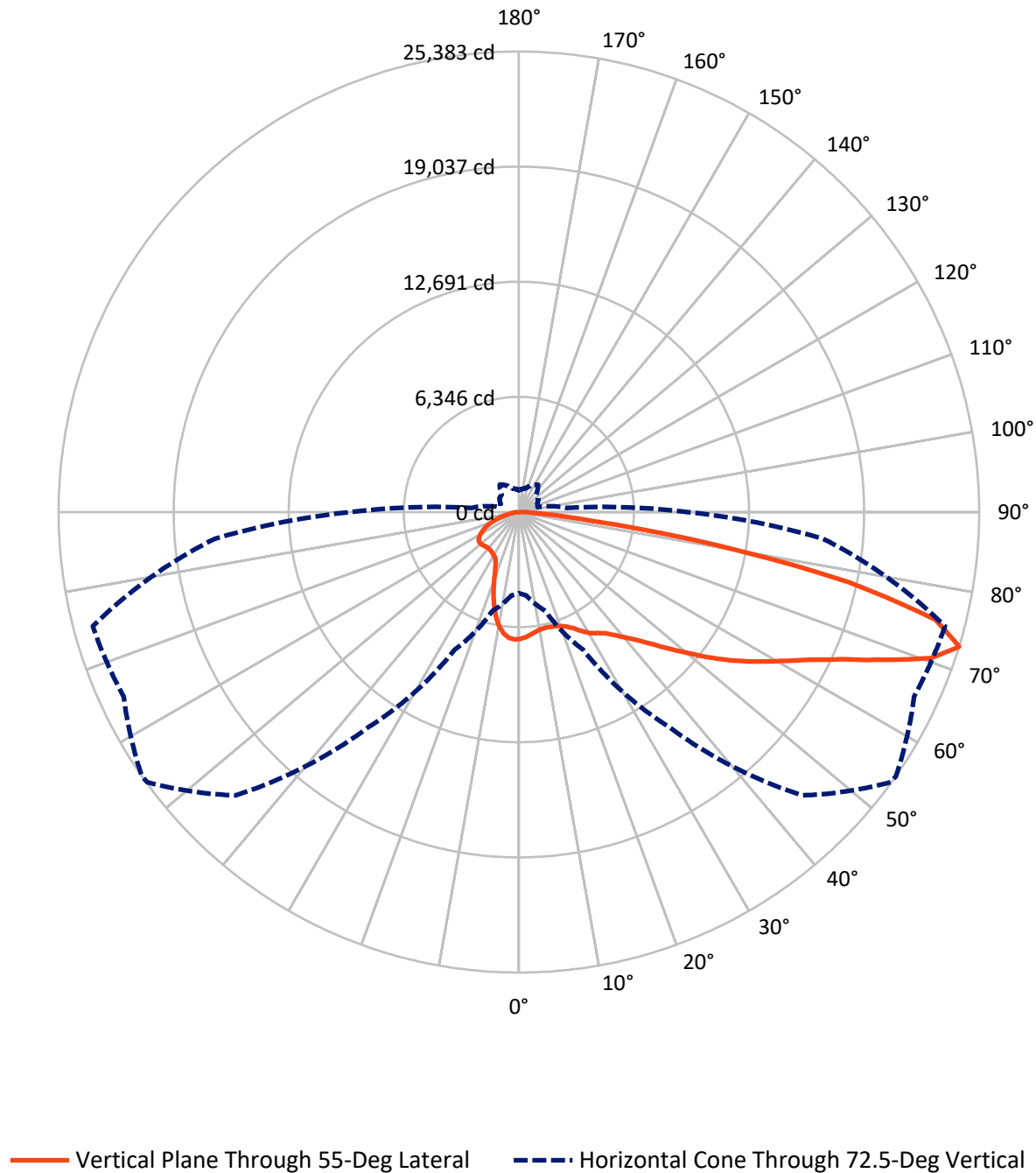
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	7375.2	0.0	7375.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	32304.8	0.0	32304.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	39680.0	0.0	39680.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.3	1.6
10°-20°	1686.1	4.2
20°-30°	2779.9	7.0
30°-40°	4112.2	10.4
40°-50°	5739.8	14.5
50°-60°	7473.4	18.8
60°-70°	9184.5	23.1
70°-80°	7199.6	18.1
80°-90°	871.3	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°	39680.0	100.0
0°-180°	39680.0	100.0

Coefficient of Utilization



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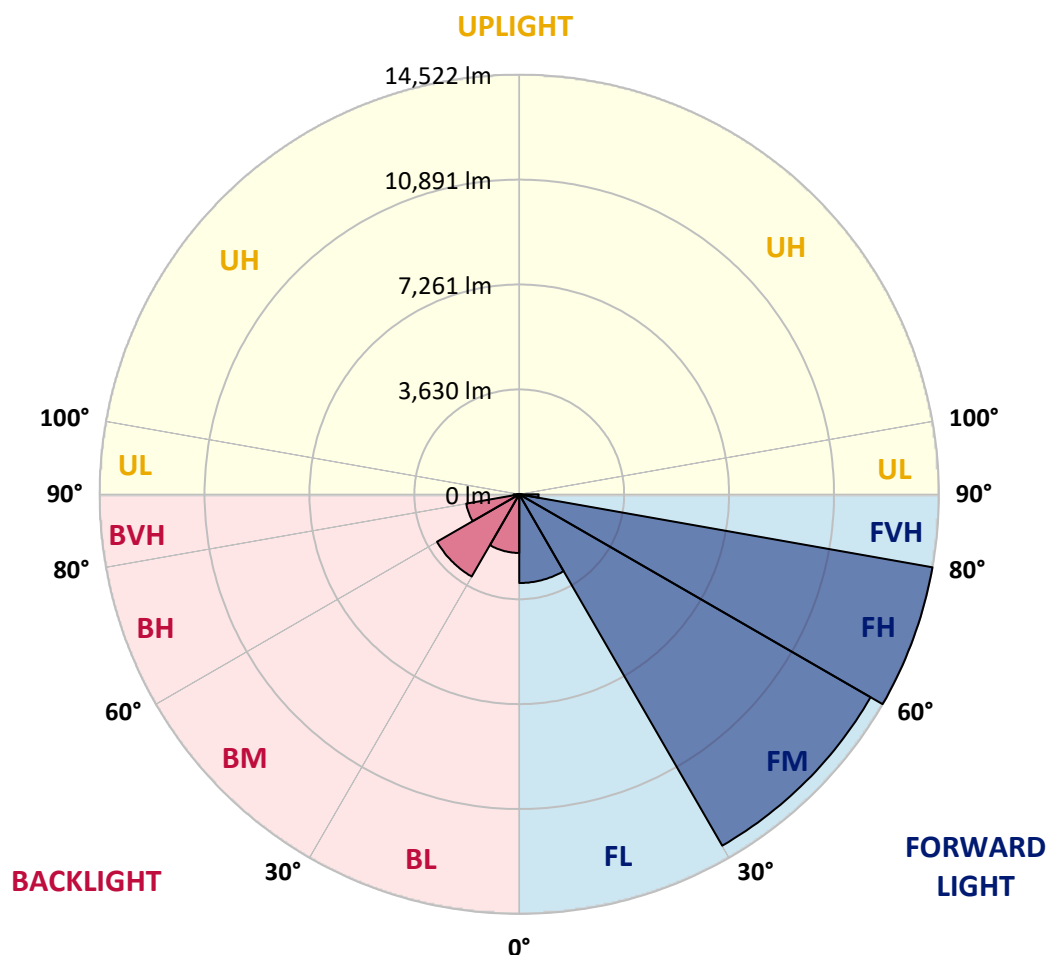
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3070.1	7.7			
FM	(30°-60°)	14039.6	35.4			
FH	(60°-80°)	14521.5	36.6			G5
FVH	(80°-90°)	673.6	1.7			G4/750
BL	(0°-30°)	2029.2	5.1	B3/2500		
BM	(30°-60°)	3285.8	8.3	B3/5000		
BH	(60°-80°)	1862.6	4.7	B3/2500		G3/2500
BVH	(80°-90°)	197.6	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°	6998.7	6998.7	6998.7	6998.7	6998.7	6998.7	6998.7	6998.7	6998.7	6998.7	6998.7
2.5°	6770.9	6754.8	6774.9	6803.0	6833.8	6875.4	6899.5	6910.2	6951.8	6967.9	7002.7
5°	6457.2	6449.2	6482.7	6531.0	6599.3	6695.8	6773.5	6788.3	6898.2	6975.9	7046.9
7.5°	6229.4	6229.4	6268.3	6325.9	6402.3	6532.3	6642.2	6662.3	6848.6	7016.1	7147.5
10°	6048.5	6055.2	6100.7	6169.1	6258.9	6396.9	6543.0	6565.8	6835.2	7109.9	7319.0
12.5°	5927.9	5943.9	5985.5	6047.1	6158.4	6325.9	6510.9	6541.7	6863.3	7244.0	7525.4
15°	6004.2	6031.0	6035.1	6060.5	6122.2	6304.5	6529.6	6561.8	6923.6	7380.7	7760.0
17.5°	6339.3	6348.7	6307.1	6253.5	6224.0	6340.6	6585.9	6619.4	6996.0	7516.0	7985.1
20°	6848.6	6843.2	6753.4	6608.7	6458.6	6477.3	6678.4	6713.2	7093.9	7635.3	8210.3
22.5°	7491.9	7473.1	7335.1	7068.4	6812.4	6705.2	6840.6	6870.0	7241.3	7805.5	8451.5
25°	8271.9	8230.4	8048.1	7690.3	7313.7	7037.6	7084.5	7112.6	7455.7	7995.8	8672.6
27.5°	9094.8	9053.3	8821.4	8388.5	7887.3	7457.1	7420.9	7445.0	7699.6	8136.6	8836.2
30°	9955.3	9911.0	9699.3	9214.1	8495.7	7891.3	7734.5	7743.9	7871.2	8212.9	8970.2
32.5°	10819.7	10778.2	10540.9	9978.0	9156.5	8357.7	7961.0	7948.9	7974.4	8292.0	9121.6
35°	11696.2	11712.3	11434.9	10811.7	9888.2	8876.4	8229.0	8203.6	8147.3	8454.2	9336.1
37.5°	12634.4	12623.7	12264.5	11613.1	10653.5	9439.3	8613.7	8609.7	8415.3	8761.1	9672.5
40°	13261.6	13268.3	13049.9	12433.3	11426.8	10062.5	9106.9	9097.5	8842.9	9220.8	10113.4
42.5°	13506.9	13551.1	13607.4	13216.0	12236.3	10784.9	9695.2	9681.8	9439.3	9880.2	10632.1
45°	13524.3	13612.7	13961.2	13911.6	13056.6	11611.8	10447.1	10409.6	10235.4	10756.7	11251.3
47.5°	13374.2	13465.3	14044.3	14325.8	13789.7	12484.3	11326.3	11296.8	11146.7	11853.0	11921.4
50°	13045.8	13132.9	13872.8	14528.1	14392.8	13323.3	12339.5	12261.8	12181.4	13119.5	12688.0
52.5°	12430.7	12598.2	13643.6	14576.4	14753.3	14068.4	13405.0	13354.1	13398.3	14455.8	13455.9
55°	10973.8	11161.5	13052.5	14536.2	15020.0	14694.3	14470.5	14467.8	14697.0	15857.6	14280.2
57.5°	10157.6	10290.3	11849.0	14467.8	15336.3	15316.2	15525.3	15550.7	15997.0	17384.2	15143.3
60°	9696.6	9836.0	11239.2	14214.5	15826.8	16120.3	16601.5	16652.4	17318.5	19074.2	16182.0
62.5°	9277.1	9429.9	10861.3	13698.5	16404.5	17270.2	17890.8	17936.3	18717.7	20811.1	17185.8
65°	8560.1	8733.0	10307.7	13359.4	16929.8	18770.0	19529.9	19560.7	20324.6	22631.2	17953.8
67.5°	7546.9	7705.0	9263.7	12610.3	17318.5	20591.3	21709.1	21726.5	21918.2	23916.5	18346.5
70°	6363.4	6423.7	7776.0	11063.6	16858.8	22294.8	24097.4	24101.4	23371.0	24739.4	18282.1
72.5°	4471.0	4613.1	5645.1	8375.1	14487.9	22087.0	25337.1	25382.7	24046.5	24323.9	16821.3
75°	2742.1	2892.2	3540.9	5075.5	9191.3	17370.8	23409.9	23726.1	22779.9	21687.7	13741.4
77.5°	1833.4	1889.7	2310.6	2959.2	4164.1	9994.1	17998.0	18593.1	18924.1	15816.1	8787.9
80°	1022.6	1129.8	1531.9	1838.8	1852.2	3971.1	10791.6	10930.9	10528.9	6297.8	2711.3
82.5°	541.5	600.4	1022.6	1080.2	1010.5	1329.5	4022.0	4026.1	3364.0	1688.7	805.5
85°	419.5	469.1	700.9	659.4	516.0	589.7	1326.8	1399.2	1144.6	691.6	262.7
87.5°	209.1	260.0	475.8	418.2	202.4	168.9	474.4	506.6	451.7	270.7	95.2
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°	6998.7	6998.7	6998.7	6998.7	6998.7	6998.7	6998.7	6998.7	6998.7	6998.7	6998.7
2.5°	7016.1	7028.2	7042.9	7026.8	7021.5	7000.0	6963.9	6955.8	6937.0	6938.4	6949.1
5°	7077.8	7097.9	7089.8	7028.2	6954.5	6851.3	6744.1	6652.9	6592.6	6588.6	6584.6
7.5°	7195.7	7209.1	7146.1	6970.6	6764.2	6525.6	6300.4	6103.4	5984.1	5954.7	5948.0
10°	7380.7	7378.0	7205.1	6851.3	6439.8	6013.6	5651.8	5378.4	5218.9	5172.0	5159.9
12.5°	7587.1	7556.2	7225.2	6634.2	5981.5	5390.4	4932.1	4627.8	4461.6	4408.0	4394.6
15°	7800.2	7723.8	7175.6	6309.8	5418.6	4719.0	4237.8	3956.4	3866.6	3837.1	3831.7
17.5°	7998.5	7851.1	7033.5	5870.2	4776.6	4050.2	3674.9	3562.3	3583.8	3622.7	3624.0
20°	8192.8	7936.9	6805.7	5315.4	4099.8	3499.3	3372.0	3455.1	3557.0	3636.1	3646.8
22.5°	8384.5	7997.2	6512.2	4674.7	3494.0	3189.8	3279.6	3431.0	3547.6	3633.4	3648.1
25°	8545.3	8011.9	6107.4	3991.2	3073.2	3073.2	3235.3	3378.7	3494.0	3578.4	3593.2
27.5°	8604.3	7912.7	5536.5	3358.6	2861.4	3019.5	3173.7	3293.0	3390.8	3480.6	3496.7
30°	8627.1	7729.1	4877.1	2850.7	2774.3	2961.9	3090.6	3192.4	3284.9	3369.3	3384.1
32.5°	8631.1	7508.0	4177.5	2562.5	2714.0	2901.6	2987.4	3077.2	3176.4	3209.9	3215.2
35°	8656.6	7246.6	3440.4	2415.1	2657.7	2845.3	2913.7	2978.0	2817.2	2829.2	2840.0
37.5°	8730.3	6988.0	2823.9	2332.0	2621.5	2815.8	2897.6	2664.4	2538.4	2508.9	2504.9
40°	8868.3	6711.9	2366.9	2265.0	2608.1	2830.6	2794.4	2487.5	2270.4	2108.2	2084.1
42.5°	9060.0	6414.4	2074.7	2220.8	2617.5	2901.6	2651.0	2317.3	1956.7	1852.2	1838.8
45°	9275.8	6102.1	1916.5	2189.9	2649.6	2956.6	2621.5	2090.8	1810.7	1731.6	1724.9
47.5°	9484.8	5720.1	1834.8	2176.5	2693.9	2912.3	2496.9	2021.1	1741.0	1699.4	1703.4
50°	9724.7	5375.7	1785.2	2161.8	2732.7	2884.2	2356.1	1984.9	1714.2	1765.1	1818.7
52.5°	9927.1	5019.2	1741.0	2132.3	2747.5	2834.6	2319.9	1991.6	1714.2	1812.0	1862.9
55°	10167.0	4749.8	1690.0	2070.7	2719.3	2693.9	2294.5	2031.8	1734.3	1672.6	1678.0
57.5°	10476.6	4661.3	1633.7	1974.2	2625.5	2488.8	2282.4	2070.7	1722.2	1683.3	1696.7
60°	10905.5	4755.1	1611.0	1848.2	2479.4	2328.0	2283.8	2050.6	1637.8	1570.8	1572.1
62.5°	11314.2	4859.7	1609.6	1769.1	2299.8	2184.6	2252.9	1984.9	1594.9	1556.0	1570.8
65°	11448.3	4753.8	1545.3	1680.7	2097.5	2013.0	2196.6	1915.2	1562.7	1503.7	1501.1
67.5°	11268.7	4425.5	1415.3	1537.2	1865.6	1813.3	2122.9	1832.1	1511.8	1463.5	1455.5
70°	10735.3	3692.3	1254.5	1348.3	1601.6	1588.2	2006.3	1735.6	1443.4	1401.9	1367.0
72.5°	9299.9	2630.9	1057.4	1121.8	1304.0	1346.9	1845.5	1609.6	1346.9	1257.1	1203.5
75°	7638.0	1947.4	868.5	881.9	990.4	1107.0	1624.4	1462.2	1233.0	1080.2	1038.7
77.5°	4677.4	1191.5	691.6	696.9	710.3	883.2	1337.6	1297.3	1088.3	900.6	871.2
80°	1514.5	650.0	499.9	525.4	485.2	647.3	1034.7	1104.4	934.1	753.2	721.0
82.5°	576.3	379.3	337.7	355.2	336.4	434.2	754.6	884.6	765.3	619.2	503.9
85°	278.8	214.4	199.7	223.8	207.7	222.5	482.5	651.4	580.3	403.4	375.3
87.5°	99.2	95.2	76.4	103.2	88.5	79.1	147.4	328.4	383.3	277.4	247.9
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)