

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: P317752

Luminaire Tested: **GAN-SA8A-740-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317752  
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-SA8A-740-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 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: 38188 lumens  
Efficiency: N/A  
Efficacy: 148.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

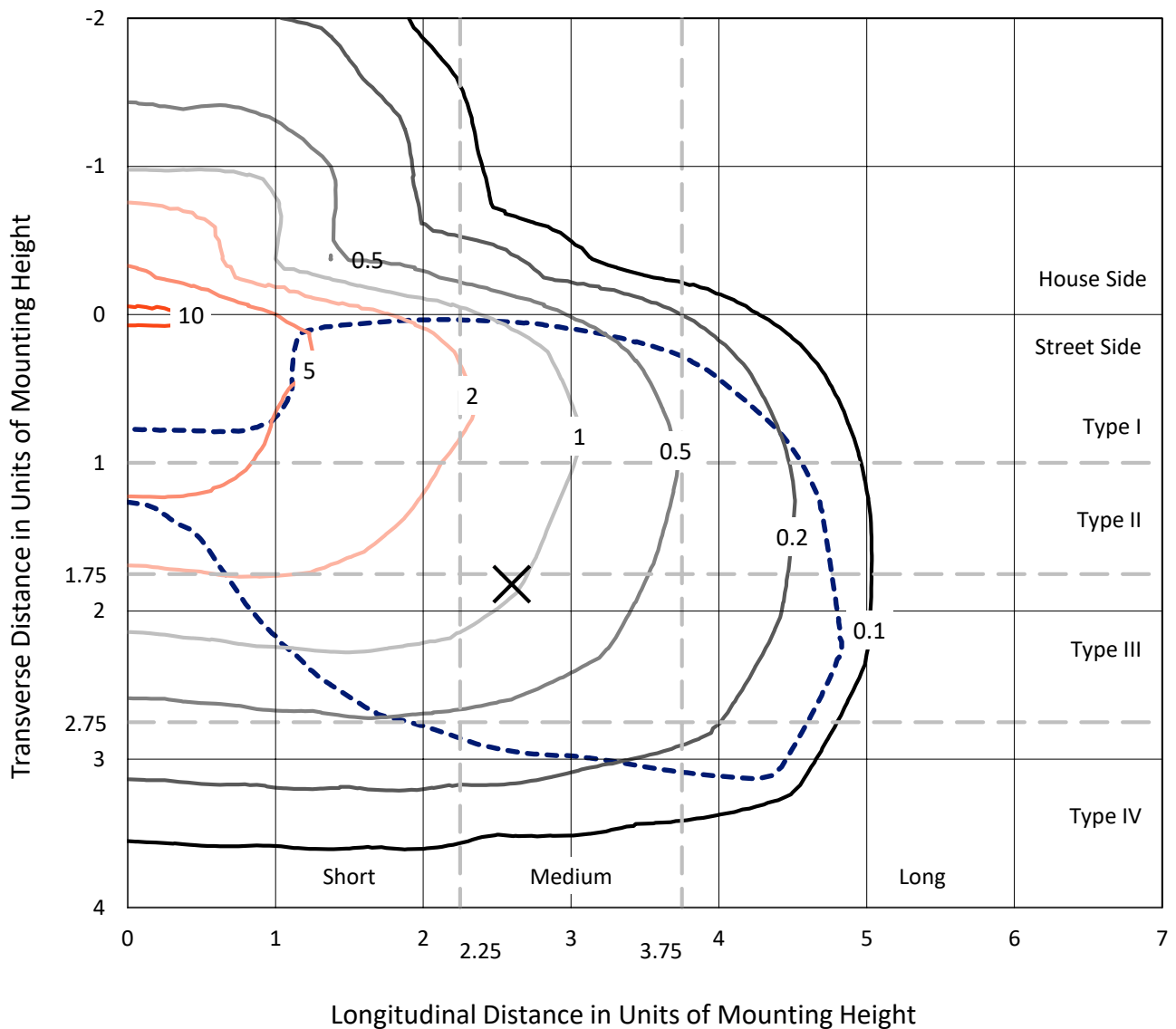
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

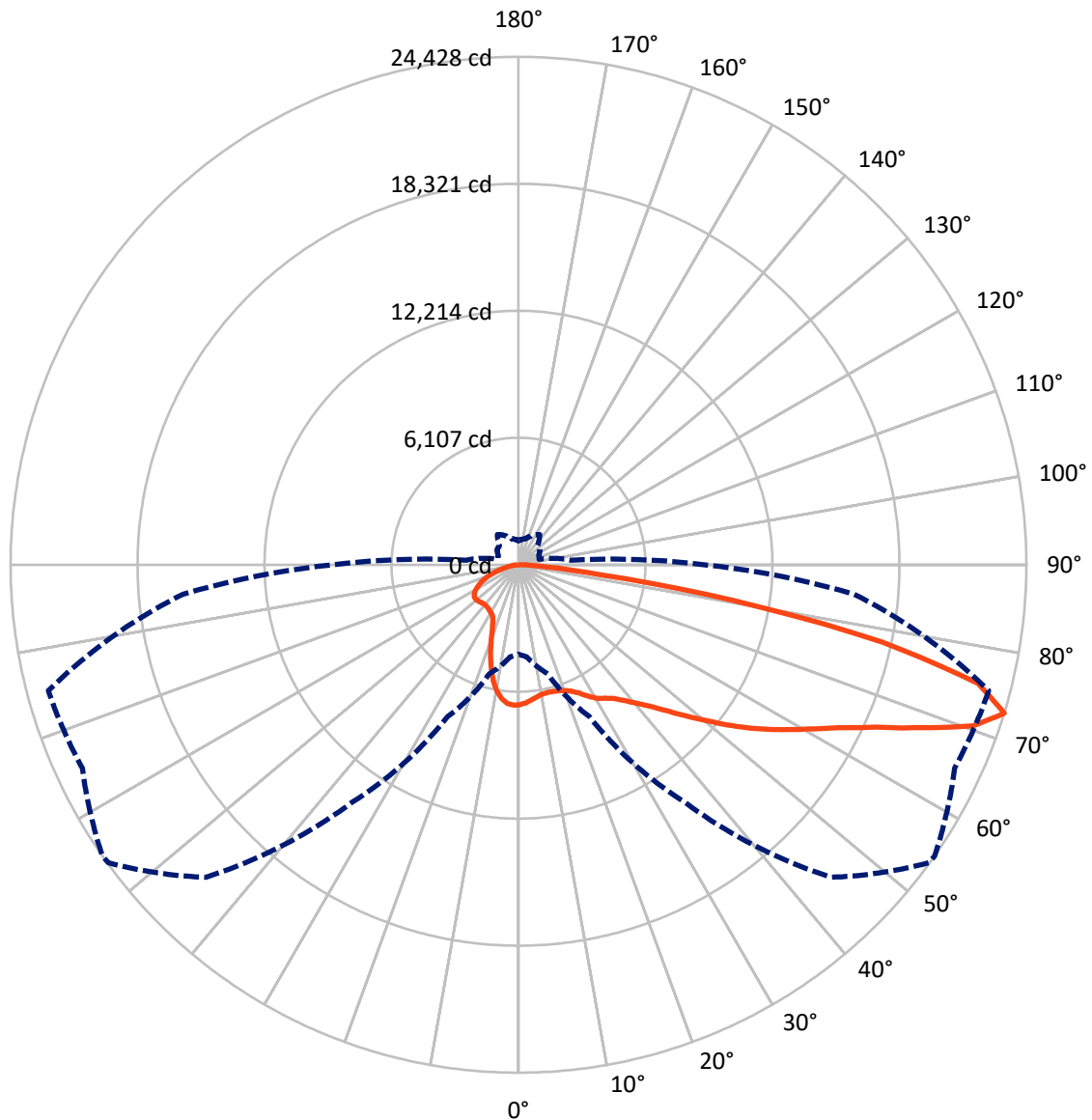
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type IV - Medium - N/A

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CATALOG NUMBER: GAN-SA8A-740-U-T3R

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7097.9	0.0	7097.9
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	31090.1	0.0	31090.1
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	38188.0	0.0	38188.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	609.5	1.6
10°-20°	1622.7	4.2
20°-30°	2675.4	7.0
30°-40°	3957.6	10.4
40°-50°	5523.9	14.5
50°-60°	7192.4	18.8
60°-70°	8839.2	23.1
70°-80°	6928.9	18.1
80°-90°	838.5	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°	38188.0	100.0
0°-180°	38188.0	100.0

**Coefficient of Utilization**

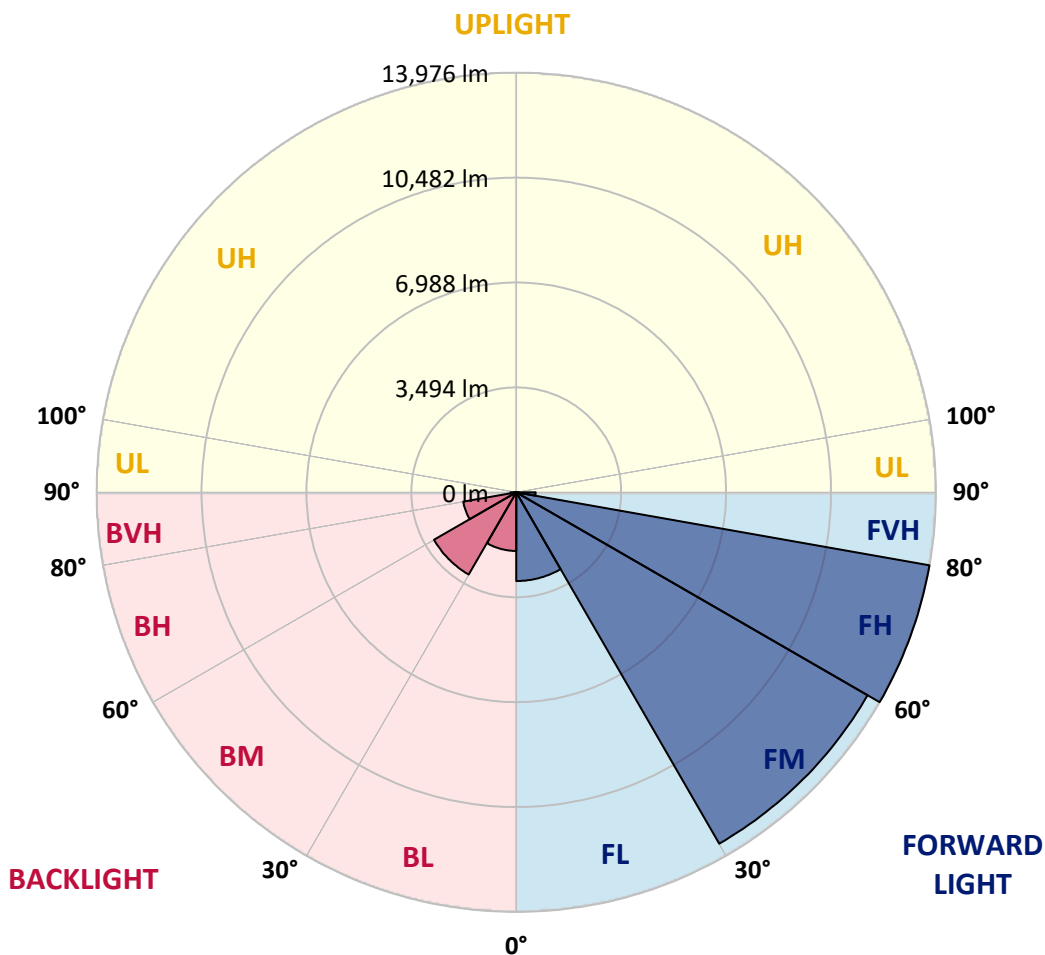


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2954.6	7.7			
FM (30°-60°)	13511.7	35.4			
FH (60°-80°)	13975.5	36.6			G5
FVH (80°-90°)	648.3	1.7			G4/750
BL (0°-30°)	1952.9	5.1	B3/2500		
BM (30°-60°)	3162.2	8.3	B3/5000		
BH (60°-80°)	1792.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	190.2	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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CATALOG NUMBER: GAN-SA8A-740-U-T3R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6735.5	6735.5	6735.5	6735.5	6735.5	6735.5	6735.5	6735.5	6735.5	6735.5	6735.5
2.5°	6516.3	6500.8	6520.1	6547.2	6576.9	6616.9	6640.1	6650.4	6690.4	6705.9	6739.4
5°	6214.4	6206.7	6239.0	6285.4	6351.2	6444.0	6518.8	6533.0	6638.8	6713.6	6782.0
7.5°	5995.2	5995.2	6032.6	6088.0	6161.6	6286.7	6392.4	6411.8	6591.1	6752.3	6878.7
10°	5821.0	5827.5	5871.3	5937.1	6023.6	6156.4	6297.0	6318.9	6578.2	6842.6	7043.8
12.5°	5705.0	5720.4	5760.4	5819.8	5926.8	6088.0	6266.0	6295.7	6605.3	6971.6	7242.4
15°	5778.5	5804.3	5808.1	5832.7	5892.0	6067.4	6284.1	6315.1	6663.3	7103.1	7468.2
17.5°	6100.9	6110.0	6070.0	6018.4	5990.0	6102.2	6338.3	6370.5	6733.0	7233.4	7684.9
20°	6591.1	6585.9	6499.5	6360.2	6215.7	6233.8	6427.3	6460.8	6827.1	7348.2	7901.6
22.5°	7210.2	7192.1	7059.3	6802.6	6556.3	6453.1	6583.3	6611.7	6969.0	7512.0	8133.7
25°	7960.9	7920.9	7745.5	7401.1	7038.7	6772.9	6818.1	6845.2	7175.4	7695.2	8346.6
27.5°	8752.9	8712.9	8489.7	8073.1	7590.7	7176.7	7141.8	7165.1	7410.1	7830.6	8503.9
30°	9580.9	9538.4	9334.6	8867.6	8176.3	7594.6	7443.7	7452.7	7575.2	7904.1	8632.9
32.5°	10412.9	10372.9	10144.6	9602.9	8812.2	8043.4	7661.6	7650.0	7674.5	7980.2	8778.6
35°	11256.4	11271.9	11004.9	10405.1	9516.4	8542.6	7919.6	7895.1	7840.9	8136.3	8985.0
37.5°	12159.3	12149.0	11803.3	11176.5	10252.9	9084.3	8289.8	8285.9	8098.9	8431.7	9308.8
40°	12763.0	12769.4	12559.2	11965.8	10997.2	9684.1	8764.5	8755.4	8510.4	8874.1	9733.1
42.5°	12999.0	13041.6	13095.7	12719.1	11776.2	10379.3	9330.7	9317.8	9084.3	9508.7	10232.3
45°	13015.8	13100.9	13436.3	13388.5	12565.6	11175.2	10054.3	10018.2	9850.5	10352.3	10828.2
47.5°	12871.3	12959.0	13516.2	13787.1	13271.2	12014.9	10900.4	10872.1	10727.6	11407.3	11473.1
50°	12555.3	12639.1	13351.1	13981.9	13851.6	12822.3	11875.6	11800.7	11723.4	12626.2	12210.9
52.5°	11963.3	12124.5	13130.6	14028.3	14198.6	13539.4	12901.0	12852.0	12894.5	13912.2	12950.0
55°	10561.2	10741.8	12561.7	13989.6	14455.2	14141.8	13926.4	13923.8	14144.4	15261.4	13743.2
57.5°	9775.7	9903.4	11403.5	13923.8	14759.6	14740.3	14941.5	14966.0	15395.5	16730.5	14573.9
60°	9332.0	9466.1	10816.6	13680.0	15231.7	15514.2	15977.2	16026.3	16667.3	18357.0	15573.5
62.5°	8928.3	9075.3	10452.9	13183.4	15787.6	16620.9	17218.1	17261.9	18013.9	20028.6	16539.6
65°	8238.2	8404.6	9920.2	12857.1	16293.3	18064.2	18795.5	18825.2	19560.4	21780.2	17278.7
67.5°	7263.1	7415.3	8915.4	12136.1	16667.3	19817.1	20892.8	20909.6	21094.0	23017.2	17656.6
70°	6124.2	6182.2	7483.6	10647.6	16224.9	21456.5	23191.3	23195.2	22492.2	23809.1	17594.7
72.5°	4302.9	4439.6	5432.8	8060.2	13943.2	21256.6	24384.4	24428.3	23142.3	23409.3	16188.8
75°	2639.0	2783.5	3407.8	4884.6	8845.7	16717.6	22529.6	22834.0	21923.4	20872.2	13224.7
77.5°	1764.5	1818.7	2223.7	2848.0	4007.5	9618.3	17321.3	17893.9	18212.5	15221.4	8457.5
80°	984.1	1087.3	1474.3	1769.7	1782.6	3821.8	10385.8	10519.9	10133.0	6061.0	2609.3
82.5°	521.1	577.8	984.1	1039.6	972.5	1279.5	3870.8	3874.7	3237.5	1625.2	775.2
85°	403.7	451.4	674.6	634.6	496.6	567.5	1276.9	1346.6	1101.5	665.6	252.8
87.5°	201.2	250.2	457.9	402.4	194.8	162.5	456.6	487.6	434.7	260.5	91.6
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°	6735.5	6735.5	6735.5	6735.5	6735.5	6735.5	6735.5	6735.5	6735.5	6735.5	6735.5
2.5°	6752.3	6763.9	6778.1	6762.6	6757.5	6736.8	6702.0	6694.3	6676.2	6677.5	6687.8
5°	6811.6	6831.0	6823.3	6763.9	6693.0	6593.7	6490.5	6402.8	6344.7	6340.9	6337.0
7.5°	6925.1	6938.0	6877.4	6708.5	6509.8	6280.2	6063.5	5873.9	5759.1	5730.8	5724.3
10°	7103.1	7100.6	6934.2	6593.7	6197.7	5787.5	5439.3	5176.1	5022.6	4977.5	4965.9
12.5°	7301.8	7272.1	6953.5	6384.7	5756.6	5187.7	4746.6	4453.8	4293.9	4242.3	4229.4
15°	7506.9	7433.3	6905.8	6072.6	5214.8	4541.5	4078.5	3807.6	3721.2	3692.8	3687.7
17.5°	7697.8	7555.9	6769.1	5649.5	4597.0	3897.9	3536.7	3428.4	3449.0	3486.4	3487.7
20°	7884.8	7638.4	6549.8	5115.5	3945.6	3367.8	3245.2	3325.2	3423.2	3499.3	3509.7
22.5°	8069.2	7696.5	6267.3	4499.0	3362.6	3069.8	3156.2	3302.0	3414.2	3496.8	3510.9
25°	8224.0	7710.7	5877.8	3841.1	2957.6	2957.6	3113.7	3251.7	3362.6	3443.9	3458.1
27.5°	8280.8	7615.2	5328.3	3232.3	2753.8	2906.0	3054.3	3169.1	3263.3	3349.7	3365.2
30°	8302.7	7438.5	4693.7	2743.5	2670.0	2850.5	2974.4	3072.4	3161.4	3242.7	3256.8
32.5°	8306.6	7225.7	4020.4	2466.2	2611.9	2792.5	2875.1	2961.5	3056.9	3089.2	3094.3
35°	8331.1	6974.2	3311.0	2324.3	2557.8	2738.3	2804.1	2866.0	2711.2	2722.9	2733.2
37.5°	8402.0	6725.2	2717.7	2244.3	2522.9	2710.0	2788.6	2564.2	2443.0	2414.6	2410.7
40°	8534.9	6459.5	2277.9	2179.8	2510.0	2724.1	2689.3	2393.9	2185.0	2028.9	2005.7
42.5°	8719.3	6173.2	1996.7	2137.3	2519.1	2792.5	2551.3	2230.1	1883.2	1782.6	1769.7
45°	8927.0	5872.6	1844.5	2107.6	2550.0	2845.4	2522.9	2012.1	1742.6	1666.5	1660.0
47.5°	9128.2	5505.0	1765.8	2094.7	2592.6	2802.8	2403.0	1945.1	1675.5	1635.5	1639.4
50°	9359.1	5173.5	1718.1	2080.5	2630.0	2775.7	2267.5	1910.3	1649.7	1698.7	1750.3
52.5°	9553.8	4830.4	1675.5	2052.1	2644.2	2728.0	2232.7	1916.7	1649.7	1743.9	1792.9
55°	9784.7	4571.2	1626.5	1992.8	2617.1	2592.6	2208.2	1955.4	1669.1	1609.7	1614.9
57.5°	10082.7	4486.1	1572.3	1899.9	2526.8	2395.2	2196.6	1992.8	1657.4	1620.0	1632.9
60°	10495.4	4576.4	1550.4	1778.7	2386.2	2240.5	2197.9	1973.5	1576.2	1511.7	1513.0
62.5°	10888.8	4677.0	1549.1	1702.6	2213.4	2102.4	2168.2	1910.3	1534.9	1497.5	1511.7
65°	11017.8	4575.1	1487.2	1617.5	2018.6	1937.3	2114.0	1843.2	1504.0	1447.2	1444.6
67.5°	10845.0	4259.0	1362.1	1479.4	1795.5	1745.2	2043.1	1763.2	1454.9	1408.5	1400.8
70°	10331.6	3553.5	1207.3	1297.6	1541.4	1528.5	1930.9	1670.3	1389.2	1349.2	1315.6
72.5°	8950.2	2532.0	1017.7	1079.6	1255.0	1296.3	1776.1	1549.1	1296.3	1209.9	1158.3
75°	7350.8	1874.1	835.8	848.7	953.2	1065.4	1563.3	1407.2	1186.7	1039.6	999.6
77.5°	4501.5	1146.7	665.6	670.7	683.6	850.0	1287.3	1248.6	1047.3	866.8	838.4
80°	1457.5	625.6	481.1	505.6	466.9	623.0	995.8	1062.8	899.0	724.9	693.9
82.5°	554.6	365.0	325.0	341.8	323.7	417.9	726.2	851.3	736.5	595.9	485.0
85°	268.3	206.4	192.2	215.4	199.9	214.1	464.3	626.9	558.5	388.2	361.2
87.5°	95.4	91.6	73.5	99.3	85.1	76.1	141.9	316.0	368.9	267.0	238.6
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)