

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: P317582

Luminaire Tested: **GAN-SA8D-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47623 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 511
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

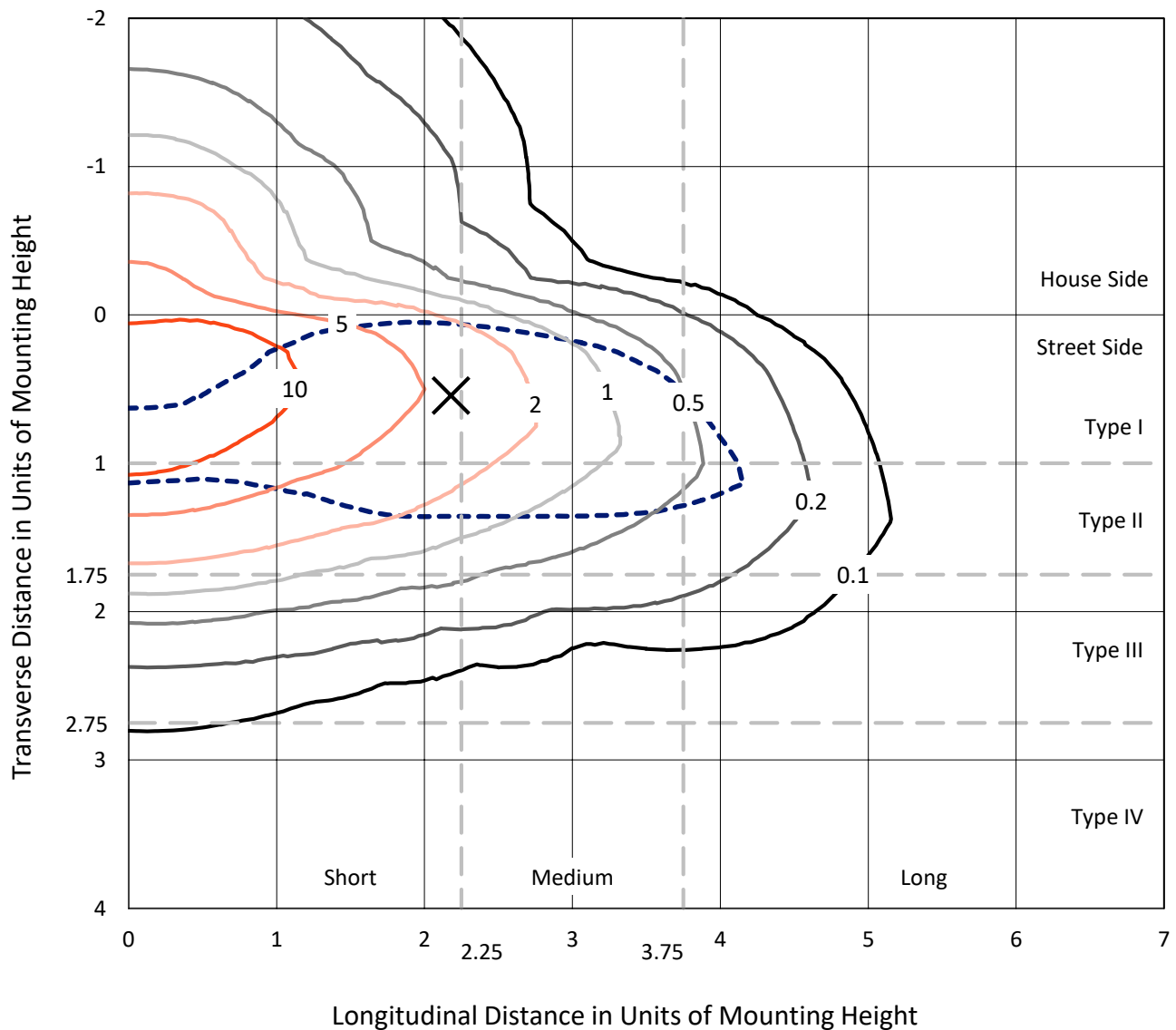


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Iso-Footcandle Lines of Horizontal Illumination

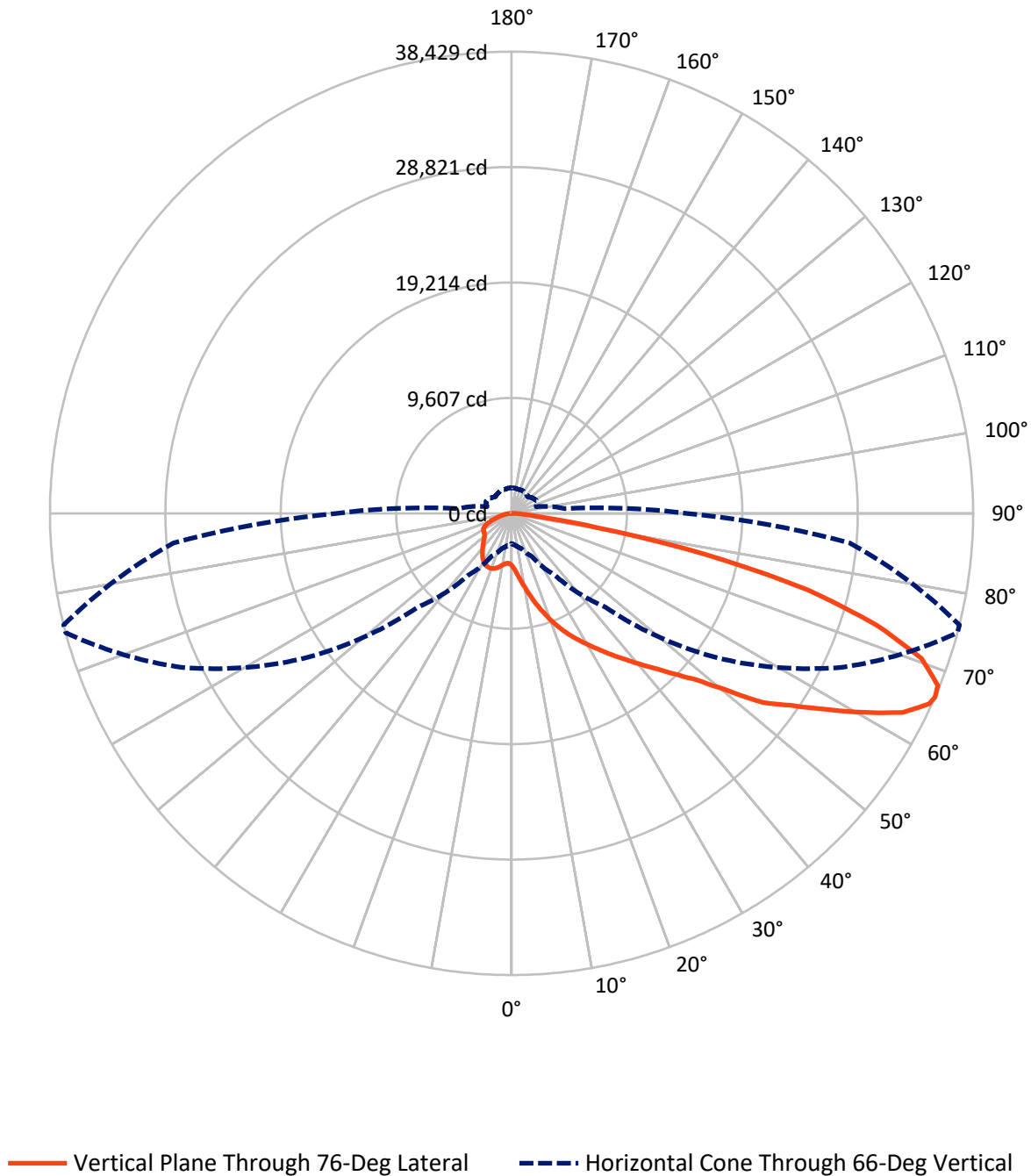
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8013.3	0.0	8013.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	39609.7	0.0	39609.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	47623.0	0.0	47623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.9	1.1
10°-20°	2076.8	4.4
20°-30°	4035.8	8.5
30°-40°	6587.3	13.8
40°-50°	8999.8	18.9
50°-60°	10482.9	22.0
60°-70°	9398.1	19.7
70°-80°	4749.4	10.0
80°-90°	767.0	1.6
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°	47623.0	100.0
0°-180°	47623.0	100.0

Coefficient of Utilization



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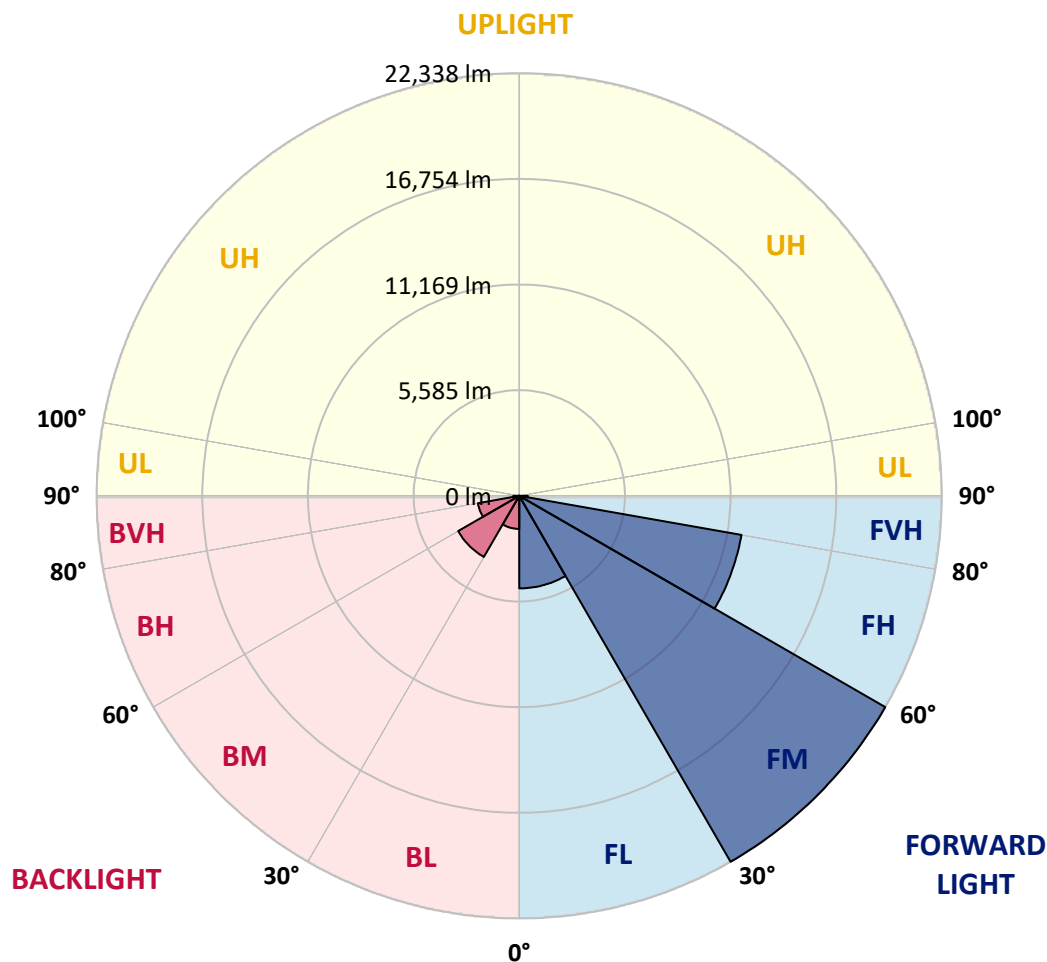
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4890.8	10.3			
FM	(30°-60°)	22338.5	46.9			
FH	(60°-80°)	11927.5	25.0			G4/12000
FVH	(80°-90°)	452.9	1.0			G3/500
BL	(0°-30°)	1747.7	3.7	B3/2500		
BM	(30°-60°)	3731.5	7.8	B3/5000		
BH	(60°-80°)	2220.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	314.0	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1
2.5°	5773.4	5686.1	5678.0	5550.3	5521.2	5277.1	5097.6	4910.1	4696.7	4654.6	4486.5
5°	7416.0	7407.9	7296.4	7087.8	6924.5	6507.4	6095.1	5658.6	5180.1	5102.5	4724.1
7.5°	8893.7	8880.8	8795.1	8570.4	8334.3	7821.8	7233.3	6564.0	5788.0	5673.2	5045.9
10°	10015.8	10010.9	9981.8	9816.9	9616.4	9124.9	8475.0	7561.5	6494.5	6337.7	5448.4
12.5°	10882.3	10892.0	10911.4	10853.2	10757.8	10339.1	9673.0	8618.9	7247.9	7092.7	5896.3
15°	11469.2	11498.3	11598.6	11681.0	11731.1	11474.1	10829.0	9700.5	8091.8	7905.9	6392.6
17.5°	11765.1	11797.4	11970.4	12219.4	12449.0	12423.1	11910.6	10732.0	8901.8	8722.4	6926.2
20°	12020.5	12044.8	12238.8	12537.9	12943.7	13123.1	12835.4	11724.7	9789.4	9576.0	7492.0
22.5°	12761.0	12791.7	12849.9	13019.7	13378.6	13708.4	13569.4	12664.0	10602.6	10403.8	8028.8
25°	14190.2	14227.4	14101.3	13957.4	14025.3	14254.9	14280.7	13520.9	11427.2	11202.5	8606.0
27.5°	15912.0	15965.4	15750.4	15380.1	15056.8	14967.9	14937.1	14222.5	12214.5	11954.2	9176.7
30°	17598.3	17690.5	17410.8	16930.6	16337.2	15920.1	15611.3	14909.7	12990.6	12741.6	9715.0
32.5°	19245.8	19208.6	18802.8	18333.9	17638.7	17116.5	16369.6	15646.9	13863.6	13577.5	10250.2
35°	20374.3	20387.2	20010.5	19454.3	18791.5	18390.5	17384.9	16442.3	14754.4	14490.9	10858.1
37.5°	21334.6	21274.8	20848.0	20329.0	19758.3	19586.9	18573.2	17318.6	15719.6	15431.9	11504.8
40°	21654.7	21585.2	21305.5	20932.0	20474.5	20460.0	19884.4	18311.3	16811.0	16526.4	12233.9
42.5°	21460.7	21371.8	21257.0	21155.2	21014.5	21079.2	21116.4	19475.4	18010.6	17692.1	13077.9
45°	20744.5	20610.3	20691.1	20912.6	21218.2	21583.6	22228.7	20763.9	19354.1	19087.3	14068.9
47.5°	19643.5	19522.2	19774.5	20248.2	21079.2	22003.9	23281.2	22186.6	20957.9	20692.8	15480.4
50°	18094.7	18130.2	18490.8	19352.5	20608.7	22198.0	24577.8	24070.2	23289.3	23041.9	17405.9
52.5°	15553.1	15559.6	16574.9	17989.6	19774.5	22097.7	25297.3	26477.5	26472.6	26173.5	19239.3
55°	13192.7	13336.6	14140.1	16020.4	18422.9	21696.8	25800.1	27648.0	28563.1	28212.3	20948.2
57.5°	10887.2	10971.3	11732.7	13621.1	16494.1	20628.1	26315.8	29053.0	30972.1	30750.6	23072.6
60°	8264.8	8394.2	9181.5	10926.0	14026.9	18731.7	26364.3	30519.4	33851.5	33628.4	25444.4
62.5°	5364.4	5587.5	6324.7	7959.3	11042.4	16004.2	25239.1	31478.1	36580.6	36501.3	27549.4
65°	3083.1	3251.3	3763.8	5024.9	7618.1	12579.9	22563.3	31109.5	38260.4	38215.1	28336.8
66°	2518.9	2624.0	3016.9	3927.1	6285.9	11047.2	21008.0	30331.8	38426.9	38428.5	28246.2
67.5°	2014.5	2061.4	2237.6	2811.5	4638.5	8756.3	18228.8	28616.5	38219.9	38276.5	27662.6
70°	1666.9	1691.1	1746.1	1885.1	2531.8	5280.3	12938.8	24159.1	36142.4	36186.1	25384.6
72.5°	1495.5	1510.0	1531.1	1550.5	1786.5	2950.6	7902.7	19326.6	31688.3	31744.9	21913.4
75°	1354.8	1362.9	1359.7	1361.3	1498.7	1880.3	4083.9	14429.5	25622.2	25509.1	16786.7
77.5°	1189.9	1198.0	1181.8	1185.1	1325.7	1445.4	2032.3	10101.4	17291.1	16492.5	9458.0
80°	1005.6	1012.1	1005.6	1016.9	1154.4	1091.3	1181.8	5682.9	7645.6	7231.7	3362.8
82.5°	759.9	787.4	806.8	852.0	950.6	776.0	790.6	2213.3	2328.1	2216.6	1031.5
85°	333.1	405.8	607.9	651.5	714.6	465.6	519.0	902.1	947.4	918.3	375.1
87.5°	87.3	95.4	300.7	378.3	396.1	210.2	270.0	410.7	433.3	410.7	124.5
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°	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1	4349.1
2.5°	4397.6	4318.3	4176.1	4050.0	3954.6	3889.9	3825.2	3792.9	3773.5	3754.1	3757.3
5°	4538.2	4378.2	4134.0	3961.0	3864.0	3802.6	3770.3	3757.3	3749.2	3729.8	3729.8
7.5°	4750.0	4523.7	4187.4	4009.5	3933.5	3886.7	3867.3	3860.8	3851.1	3828.5	3831.7
10°	5016.8	4699.9	4298.9	4125.9	4056.4	4004.7	3977.2	3967.5	3949.7	3923.8	3927.1
12.5°	5330.4	4918.1	4446.1	4265.0	4180.9	4111.4	4066.1	4038.6	4007.9	3974.0	3975.6
15°	5673.2	5155.8	4604.5	4389.5	4274.7	4177.7	4104.9	4058.0	4009.5	3967.5	3965.9
17.5°	6020.8	5385.4	4725.8	4457.4	4302.2	4174.4	4075.8	4003.1	3943.3	3891.5	3886.7
20°	6395.9	5592.3	4793.7	4450.9	4250.4	4098.5	3967.5	3877.0	3810.7	3758.9	3750.9
22.5°	6777.4	5786.3	4805.0	4384.6	4135.6	3949.7	3812.3	3712.1	3644.2	3590.8	3571.4
25°	7126.6	5936.7	4758.1	4256.9	3975.6	3775.1	3640.9	3539.1	3484.1	3421.0	3401.6
27.5°	7445.1	6041.8	4664.3	4093.6	3796.1	3598.9	3472.8	3385.5	3325.7	3277.1	3261.0
30°	7731.3	6098.4	4510.7	3899.6	3611.8	3432.4	3325.7	3265.8	3214.1	3152.7	3141.3
32.5°	8002.9	6098.4	4313.5	3687.8	3429.1	3285.2	3222.2	3185.0	3126.8	3067.0	3050.8
35°	8274.5	6061.2	4080.7	3466.3	3261.0	3180.1	3176.9	3133.3	3044.3	2963.5	2942.5
37.5°	8560.7	5985.2	3818.8	3259.4	3123.6	3133.3	3160.7	3063.7	2937.6	2822.8	2792.1
40°	8884.0	5880.1	3547.1	3079.9	3008.8	3112.2	3117.1	2963.5	2717.8	2612.7	2585.2
42.5°	9264.0	5775.0	3294.9	2921.5	2918.2	3049.2	3034.6	2746.9	2599.7	2546.4	2531.8
45°	9763.5	5715.2	3055.7	2771.1	2847.1	2947.3	2894.0	2627.2	2565.8	2535.1	2522.1
47.5°	10550.9	5745.9	2835.8	2651.5	2776.0	2845.5	2632.1	2578.7	2535.1	2497.9	2484.9
50°	11537.1	5728.1	2657.9	2569.0	2695.1	2738.8	2514.0	2515.7	2493.0	2451.0	2431.6
52.5°	12279.2	5589.1	2543.1	2522.1	2624.0	2549.6	2439.7	2454.2	2442.9	2381.5	2360.5
55°	12995.4	5469.5	2484.9	2504.3	2572.2	2313.6	2352.4	2387.9	2376.6	2316.8	2307.1
57.5°	13886.3	5446.8	2449.4	2509.2	2528.6	2195.5	2268.3	2315.2	2307.1	2281.2	2276.4
60°	14977.6	5453.3	2417.0	2517.3	2480.1	2108.2	2189.1	2248.9	2253.7	2248.9	2245.7
62.5°	15577.4	5277.1	2336.2	2494.6	2394.4	2032.3	2106.6	2193.9	2195.5	2205.2	2203.6
65°	15068.1	4750.0	2185.8	2415.4	2250.5	1969.2	2035.5	2130.9	2106.6	2150.3	2150.3
66°	14573.4	4446.1	2111.5	2363.7	2189.1	1944.9	2012.9	2098.5	2067.8	2127.6	2127.6
67.5°	13562.9	3933.5	1977.3	2253.7	2101.8	1911.0	1987.0	2045.2	2003.2	2092.1	2085.6
70°	11716.6	3042.7	1707.3	2004.8	1957.9	1860.9	1951.4	1938.5	1877.0	2012.9	1987.0
72.5°	9878.3	2312.0	1371.0	1678.2	1739.6	1797.8	1901.3	1802.7	1725.1	1820.5	1763.9
75°	7665.0	1738.0	1083.2	1304.7	1469.6	1699.2	1841.5	1645.9	1534.3	1524.6	1493.9
77.5°	4143.7	1193.2	858.5	995.9	1167.3	1576.3	1801.1	1477.7	1309.6	1270.8	1246.5
80°	1641.0	776.0	624.1	755.0	816.5	1398.5	1704.1	1282.1	1080.0	1041.2	1004.0
82.5°	677.4	459.2	402.6	506.0	531.9	1196.4	1529.4	1050.9	834.2	1154.4	1225.5
85°	291.0	252.2	239.3	261.9	300.7	839.1	1217.4	801.9	900.5	803.5	638.6
87.5°	87.3	106.7	101.9	100.2	109.9	200.5	648.3	446.2	661.3	250.6	187.5
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)