

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: P268957

Luminaire Tested: **GAN-AF-10-LED-U-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-T4W-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50830.9 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

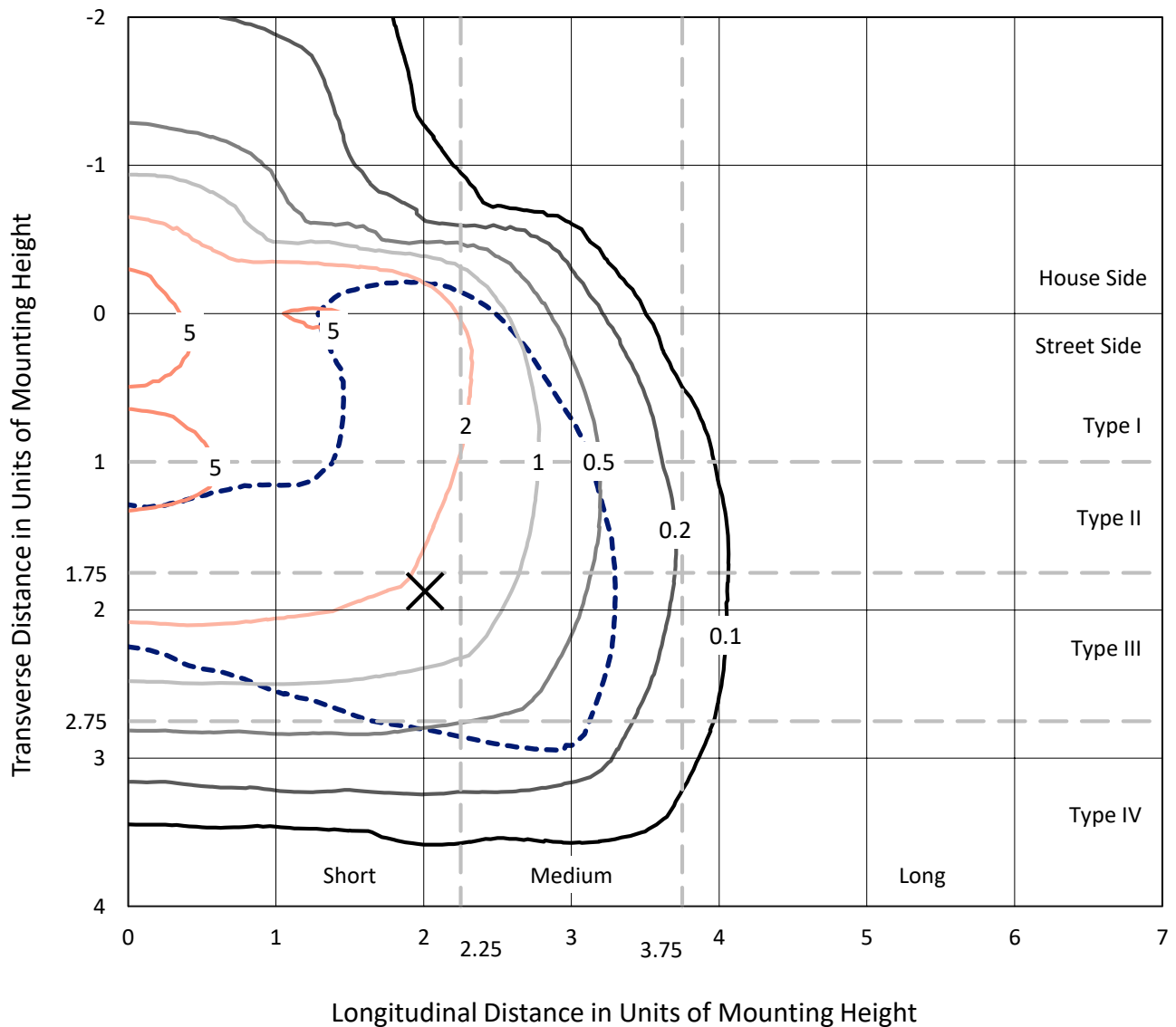
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

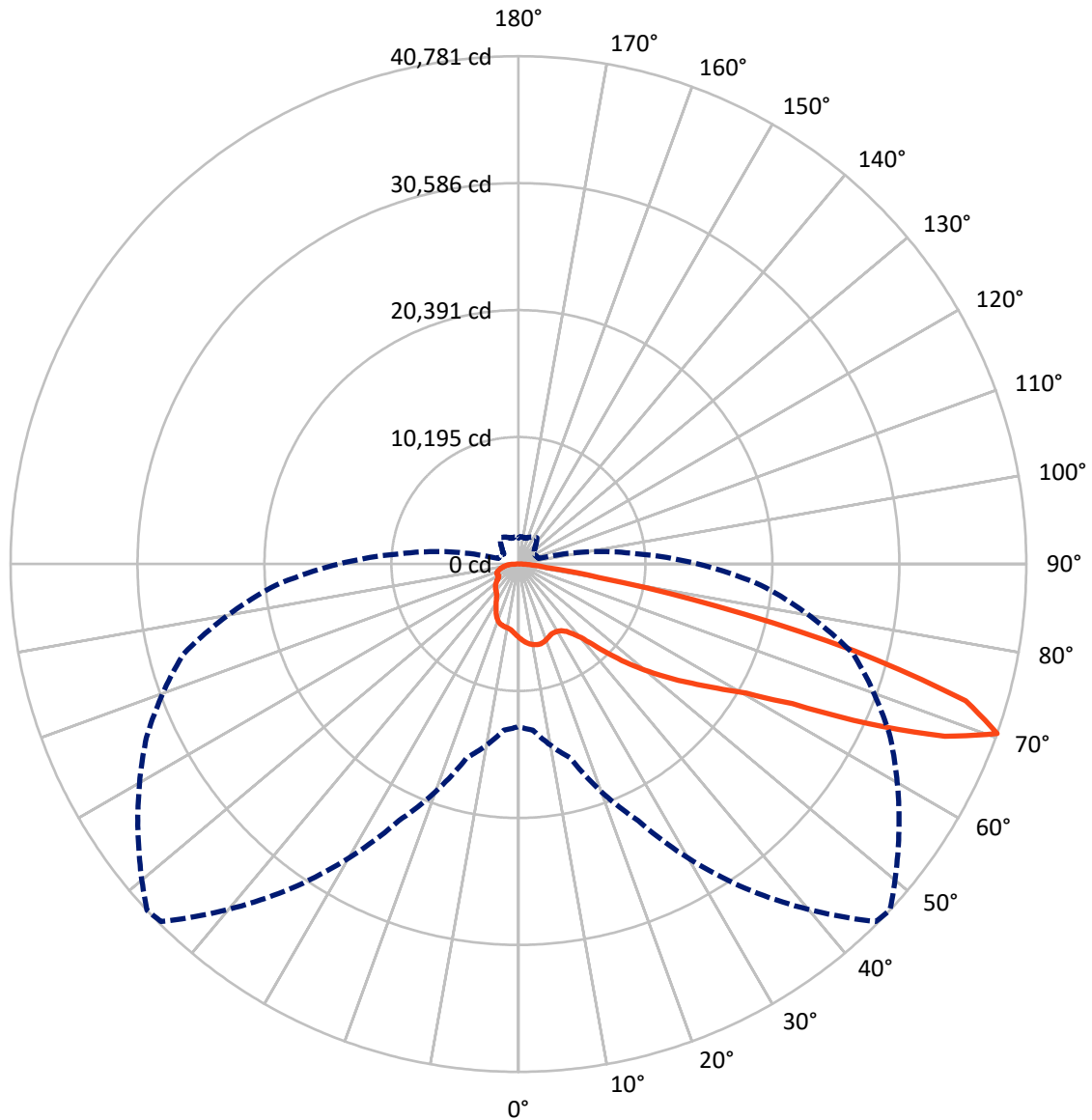
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10604.3	0.0	10604.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	40226.6	0.0	40226.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	50830.9	0.0	50830.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.1	1.1
10°-20°	1657.9	3.3
20°-30°	2448.3	4.8
30°-40°	3558.6	7.0
40°-50°	6404.2	12.6
50°-60°	11094.6	21.8
60°-70°	15835.2	31.2
70°-80°	8128.9	16.0
80°-90°	1138.1	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°	50830.9	100.0
0°-180°	50830.9	100.0

Coefficient of Utilization



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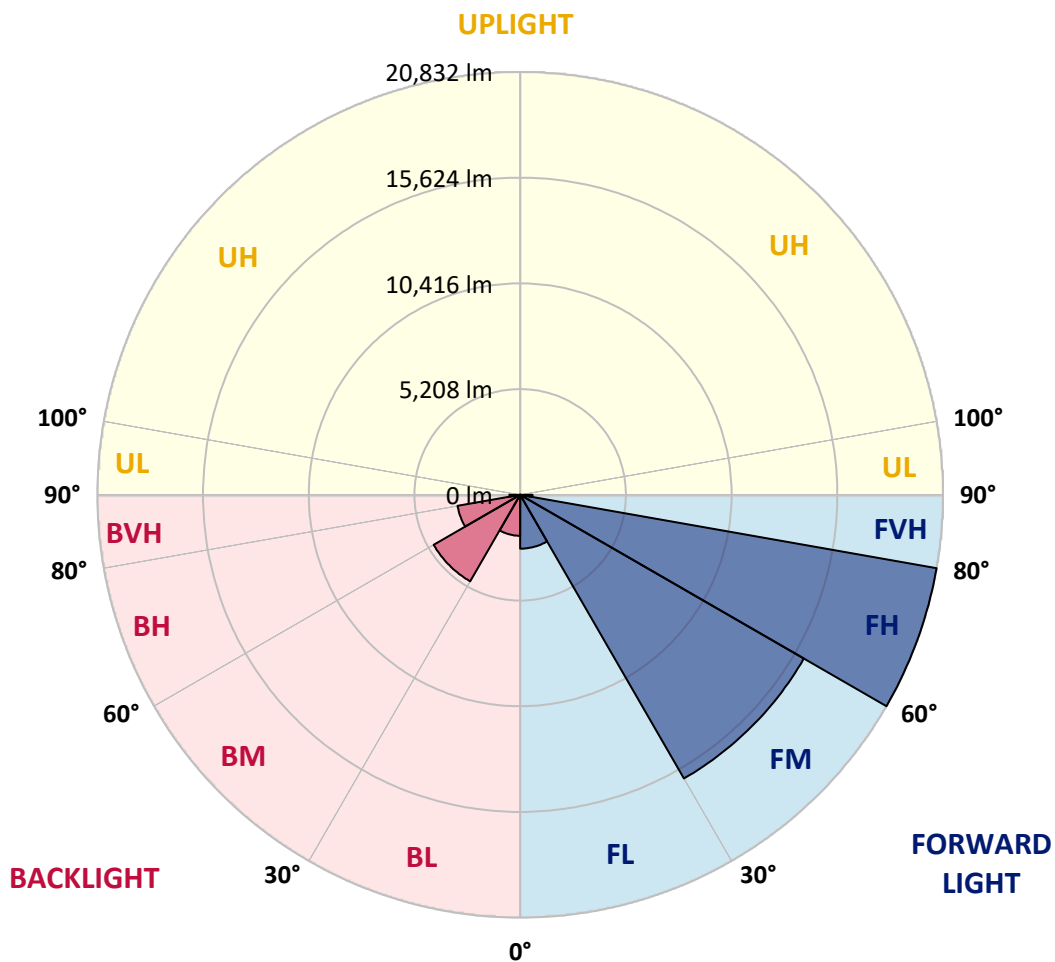
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2652.3	5.2			
FM	(30°-60°)	16135.2	31.7			
FH	(60°-80°)	20831.9	41.0			G5
FVH	(80°-90°)	607.3	1.2			G4/750
BL	(0°-30°)	2019.1	4.0	B3/2500		
BM	(30°-60°)	4922.2	9.7	B3/5000		
BH	(60°-80°)	3132.2	6.2	B4/5000		G4/5000
BVH	(80°-90°)	530.8	1.0			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5898.0	5898.0	5898.0	5898.0	5898.0	5898.0	5898.0	5898.0	5898.0	5898.0	5898.0
2.5°	6244.2	6231.8	6227.0	6217.0	6204.7	6142.8	6130.5	6085.8	6024.2	5959.7	5893.1
5°	6654.7	6652.2	6625.0	6575.6	6496.5	6360.4	6328.3	6219.4	6073.5	5932.5	5791.6
7.5°	7015.8	6993.5	6941.6	6842.6	6704.1	6518.7	6474.2	6323.3	6122.9	5930.2	5739.7
10°	7280.4	7267.9	7154.2	7018.2	6837.7	6632.5	6580.5	6412.3	6192.2	5947.4	5710.0
12.5°	7431.1	7406.4	7275.5	7112.2	6897.0	6696.8	6644.9	6474.2	6227.0	5947.4	5667.9
15°	7421.3	7404.0	7272.9	7094.9	6877.2	6701.6	6654.7	6484.1	6219.4	5922.6	5613.6
17.5°	7223.5	7230.8	7119.5	6944.0	6765.9	6632.5	6590.3	6432.1	6170.0	5873.3	5549.3
20°	6877.2	6911.9	6837.7	6682.0	6583.0	6491.5	6464.3	6330.7	6093.4	5801.6	5480.0
22.5°	6531.0	6563.1	6533.6	6402.5	6387.6	6333.2	6318.4	6221.9	6026.5	5757.0	5438.0
25°	6276.4	6306.0	6301.0	6187.3	6231.8	6229.3	6217.0	6170.0	6011.7	5757.0	5445.4
27.5°	6207.1	6217.0	6207.1	6103.3	6165.1	6214.6	6204.7	6197.1	6056.3	5828.7	5539.4
30°	6444.5	6429.7	6353.1	6142.8	6199.7	6268.9	6259.0	6264.1	6189.9	6016.7	5749.6
32.5°	7391.7	7324.9	7082.4	6491.5	6340.6	6377.7	6382.6	6464.3	6476.6	6306.0	6076.0
35°	8808.6	8734.4	8420.4	7426.3	6778.3	6649.8	6649.8	6773.4	6847.6	6721.5	6583.0
37.5°	10309.7	10228.1	10059.8	8722.1	7698.3	7122.1	7109.7	7196.2	7302.6	7332.2	7366.9
40°	12016.0	11929.5	11976.5	10176.2	8981.8	7940.6	7765.0	7703.2	7990.1	8180.4	8457.5
42.5°	13883.0	13843.5	13860.8	11796.0	10443.2	9164.7	8915.0	8595.9	8942.2	9281.0	9862.1
45°	15611.7	15646.3	15629.0	13529.5	12070.4	10658.4	10393.7	9775.5	10114.3	10695.5	11642.7
47.5°	17125.1	16981.6	17204.2	15423.8	13892.9	12330.0	12003.7	11175.3	11519.0	12236.2	13838.6
50°	18962.5	18942.7	18616.4	17951.1	16096.4	14009.2	13581.5	12621.9	13156.0	14152.6	16605.8
52.5°	20893.9	20535.3	20236.1	19917.1	18433.3	15730.4	15206.1	14063.7	15079.9	16333.8	19978.9
55°	21289.7	21128.9	21499.8	22036.4	20686.2	17518.3	16907.4	15871.3	17246.3	18826.5	23868.9
57.5°	22135.3	22132.8	22899.5	23856.5	23005.9	19415.1	18799.3	18054.9	19682.1	21682.7	27998.6
60°	22706.5	22867.3	24291.7	26148.9	25283.3	21606.2	21039.8	20574.9	22451.9	24875.3	31846.5
62.5°	23005.9	23223.4	25167.2	27078.7	28503.1	25253.7	24687.4	24017.3	26116.8	28377.0	34097.0
65°	21761.9	22189.8	25031.1	27882.4	31322.3	31166.5	30911.8	29734.6	30699.0	31144.2	33283.3
67.5°	18319.6	18757.2	22066.1	27133.1	33335.3	36869.1	36923.6	34912.9	33518.3	31381.7	27983.8
70°	13052.3	13396.0	16133.5	22748.6	31802.1	40595.8	40781.3	37299.5	32956.8	27830.5	19551.2
72.5°	6197.1	6407.4	8999.0	14805.5	25236.4	37195.5	37554.2	34252.7	28023.3	20604.6	10665.8
75°	2277.7	2341.9	3041.8	6298.6	14637.3	27429.8	27852.8	24553.8	18576.8	10257.7	4063.0
77.5°	1365.1	1407.1	1706.3	2658.4	5757.0	15678.5	16304.1	13353.9	8118.7	3818.2	1998.1
80°	954.5	984.3	1224.1	1654.4	2720.2	5974.6	6531.0	5450.3	3234.5	2416.1	1454.0
82.5°	645.4	660.3	860.5	1117.9	1807.7	2134.2	2302.4	2423.4	2181.2	1797.9	922.4
85°	422.9	437.7	583.5	736.9	1149.9	1102.8	1127.6	1426.9	1592.5	1221.7	511.9
87.5°	242.4	252.2	351.1	393.2	563.9	467.4	472.2	751.8	1018.9	823.4	311.6
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°	5898.0	5898.0	5898.0	5898.0	5898.0	5898.0	5898.0	5898.0	5898.0	5898.0	5898.0
2.5°	5875.8	5843.6	5771.9	5727.4	5685.4	5675.4	5658.2	5655.5	5653.2	5653.2	5645.8
5°	5744.7	5690.3	5579.0	5517.1	5465.2	5460.3	5457.8	5470.1	5475.1	5480.0	5472.7
7.5°	5660.6	5586.4	5448.0	5358.8	5297.0	5282.3	5306.9	5363.8	5400.9	5415.7	5408.3
10°	5608.7	5517.1	5356.5	5259.9	5208.1	5200.6	5232.7	5299.6	5376.1	5405.9	5403.3
12.5°	5549.3	5445.4	5274.8	5173.3	5143.8	5158.5	5200.6	5262.5	5341.5	5388.6	5391.0
15°	5489.9	5368.8	5193.2	5104.2	5091.9	5111.5	5151.2	5198.1	5259.9	5306.9	5311.9
17.5°	5418.1	5292.1	5116.6	5024.9	5015.1	5024.9	5027.5	5052.2	5091.9	5136.2	5148.6
20°	5341.5	5213.0	5030.0	4938.4	4894.0	4854.4	4809.9	4814.8	4827.2	4871.7	4881.6
22.5°	5287.2	5158.5	4963.1	4837.1	4718.3	4599.7	4510.7	4498.4	4503.3	4540.4	4552.7
25°	5292.1	5156.1	4945.9	4728.3	4468.6	4278.2	4159.5	4139.7	4137.2	4164.5	4181.7
27.5°	5388.6	5252.5	5010.1	4617.0	4196.6	3914.6	3788.5	3773.7	3753.9	3761.4	3781.1
30°	5603.6	5477.5	5166.0	4503.3	3902.2	3558.5	3427.6	3412.8	3385.4	3373.0	3388.0
32.5°	5954.9	5851.0	5393.6	4394.4	3608.0	3254.4	3120.8	3088.7	3071.3	3056.6	3068.9
35°	6538.5	6493.9	5697.7	4275.8	3348.3	3019.5	2898.3	2848.9	2824.1	2851.3	2871.2
37.5°	7453.4	7478.2	6095.8	4090.3	3148.1	2863.6	2762.3	2705.3	2668.3	2690.6	2712.8
40°	8749.3	8766.6	6536.0	3828.0	2974.9	2772.2	2663.4	2611.5	2559.5	2519.9	2517.5
42.5°	10450.6	10275.1	6968.7	3543.8	2774.7	2715.2	2594.1	2529.8	2450.7	2341.9	2319.7
45°	12468.6	11852.9	7297.7	3217.3	2549.6	2646.0	2517.5	2428.4	2304.8	2186.0	2173.7
47.5°	14793.2	13546.8	7458.4	2878.4	2339.4	2544.7	2423.4	2282.6	2126.7	2067.4	2060.0
50°	17632.1	15557.2	7535.1	2549.6	2156.4	2411.1	2287.4	2121.7	1990.7	1978.3	1970.9
52.5°	20864.3	17975.9	7559.7	2280.1	2005.6	2237.9	2176.2	2015.4	1911.7	1921.5	1921.5
55°	24247.2	20473.5	7223.5	2084.6	1867.0	2060.0	2102.0	1973.3	1886.9	1926.4	1941.2
57.5°	27353.2	22686.8	6165.1	1933.8	1736.1	1924.0	2074.7	2013.0	1953.6	2114.4	2124.2
60°	29737.1	23994.9	4604.6	1797.9	1639.5	1877.0	2146.5	2163.8	2178.7	2562.0	2613.9
62.5°	30236.7	23559.8	3165.4	1691.5	1595.0	1916.5	2277.7	2280.1	2262.7	2529.8	2562.0
65°	27944.2	20807.4	2302.4	1632.1	1557.9	1988.3	2388.9	2336.9	2223.1	2426.0	2366.7
67.5°	22192.2	15676.1	1916.5	1587.7	1503.6	1983.3	2507.6	2388.9	2200.8	2376.5	2280.1
70°	14405.0	9478.7	1706.3	1550.6	1439.3	1889.3	2576.8	2383.9	2136.6	2210.8	2097.1
72.5°	7028.1	4238.7	1565.3	1496.1	1372.5	1758.3	2574.4	2339.4	2069.9	2064.9	2003.1
75°	2749.9	1941.2	1436.7	1414.6	1258.7	1609.9	2505.2	2275.0	1990.7	1911.7	1889.3
77.5°	1609.9	1384.8	1273.5	1293.4	1122.7	1461.5	2403.8	2163.8	1881.9	1787.9	1763.3
80°	1172.2	1036.1	1085.6	1117.9	959.5	1313.1	2267.7	2027.8	1760.8	1807.7	1773.2
82.5°	751.8	667.7	880.3	912.5	798.8	1162.2	2119.3	1884.4	1590.1	1444.1	1409.6
85°	383.2	422.9	655.4	694.8	615.8	954.5	1938.8	1693.9	1397.3	1201.8	1221.7
87.5°	215.1	289.3	417.9	467.4	435.3	734.5	1572.8	1397.3	1139.9	927.4	816.1
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)