

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: P268800

Luminaire Tested: **GAN-AF-08-LED-U-T4W-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268800
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-08-LED-U-T4W-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45149.1 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

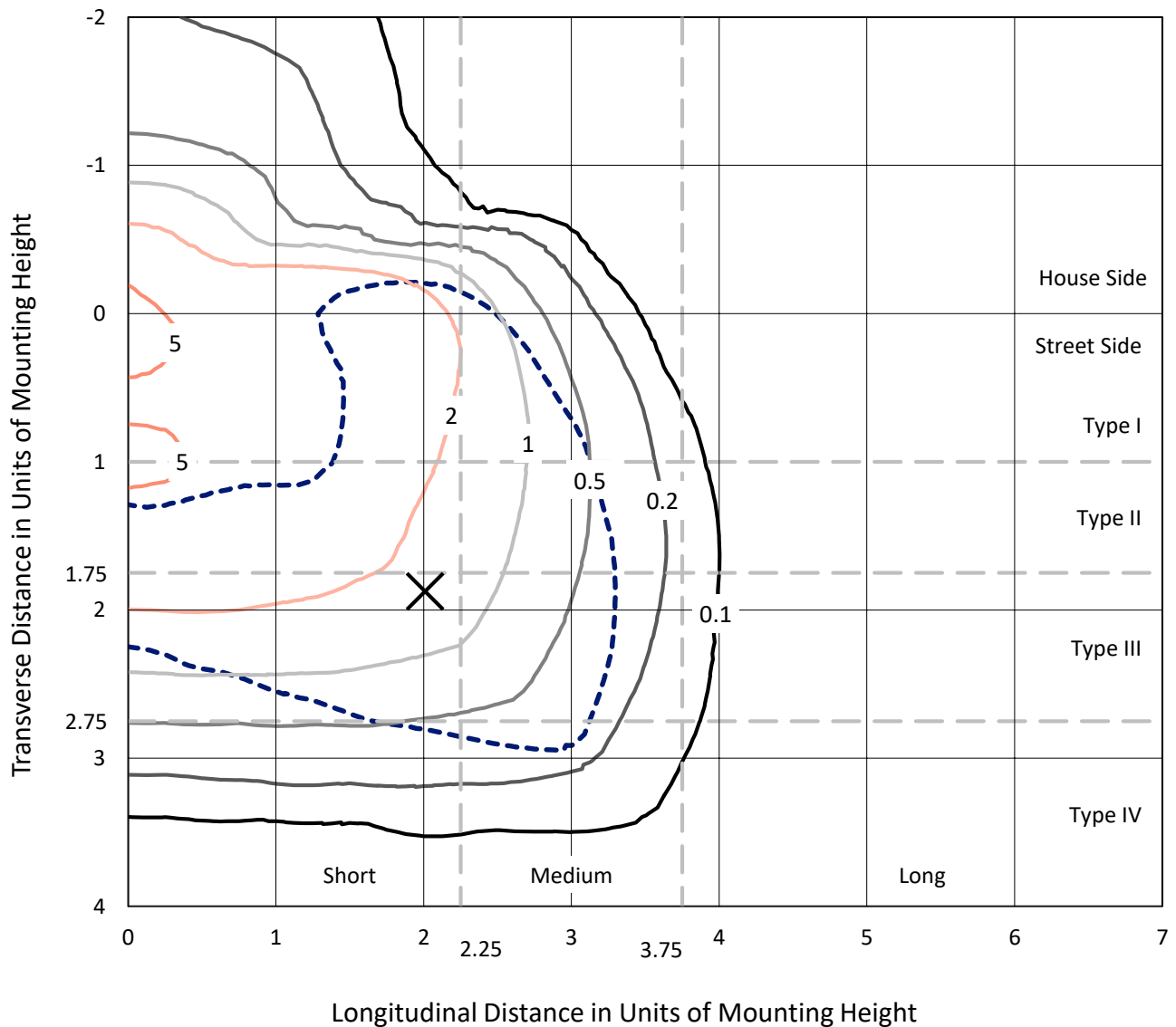
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

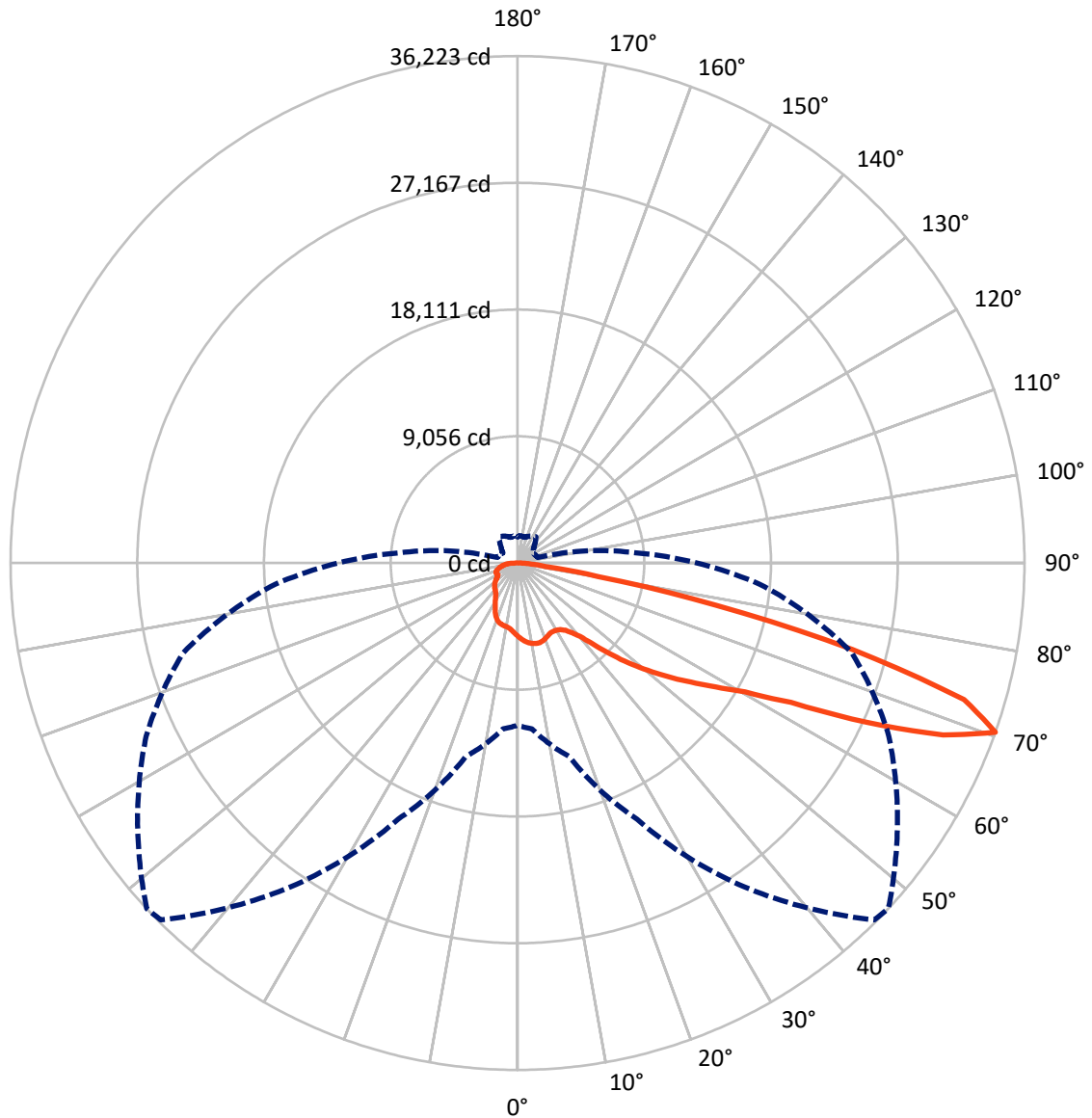
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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	9419.0	0.0	9419.0
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	35730.1	0.0	35730.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	45149.1	0.0	45149.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.0	1.1
10°-20°	1472.6	3.3
20°-30°	2174.6	4.8
30°-40°	3160.8	7.0
40°-50°	5688.3	12.6
50°-60°	9854.5	21.8
60°-70°	14065.2	31.2
70°-80°	7220.3	16.0
80°-90°	1010.9	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°	45149.1	100.0
0°-180°	45149.1	100.0

Coefficient of Utilization



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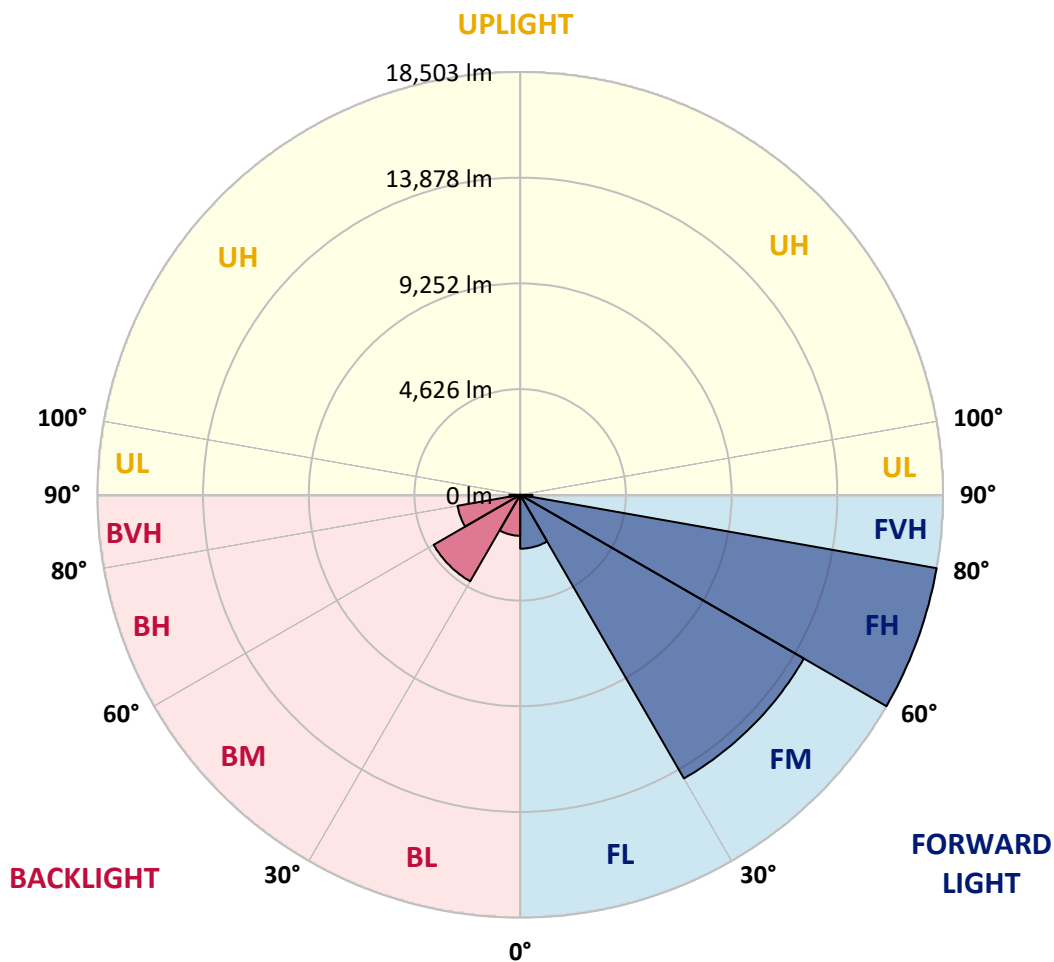
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2355.8	5.2			
FM	(30°-60°)	14331.6	31.7			
FH	(60°-80°)	18503.3	41.0			G5
FVH	(80°-90°)	539.4	1.2			G4/750
BL	(0°-30°)	1793.4	4.0	B3/2500		
BM	(30°-60°)	4372.0	9.7	B3/5000		
BH	(60°-80°)	2782.1	6.2	B4/5000		G4/5000
BVH	(80°-90°)	471.5	1.0			G3/500
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°	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6
2.5°	5546.2	5535.3	5530.9	5522.1	5511.1	5456.1	5445.2	5405.6	5350.8	5293.6	5234.3
5°	5910.8	5908.6	5884.4	5840.6	5770.3	5649.4	5621.0	5524.2	5394.6	5269.5	5144.2
7.5°	6231.5	6211.8	6165.6	6077.8	5954.8	5790.0	5750.5	5616.6	5438.6	5267.2	5098.2
10°	6466.5	6455.6	6354.5	6233.7	6073.4	5891.1	5844.9	5695.6	5500.1	5282.7	5071.8
12.5°	6600.6	6578.6	6462.1	6317.2	6126.1	5948.1	5902.0	5750.5	5530.9	5282.7	5034.5
15°	6591.8	6576.4	6460.0	6301.8	6108.6	5952.6	5910.8	5759.3	5524.2	5260.7	4986.1
17.5°	6416.1	6422.6	6323.8	6167.9	6009.8	5891.1	5853.7	5713.1	5480.3	5216.7	4929.0
20°	6108.6	6139.2	6073.4	5935.0	5847.2	5766.0	5741.6	5623.1	5412.2	5153.0	4867.5
22.5°	5801.1	5829.6	5803.2	5686.8	5673.6	5625.2	5612.2	5526.5	5352.9	5113.5	4830.1
25°	5574.8	5601.1	5596.7	5495.7	5535.3	5533.0	5522.1	5480.3	5339.7	5113.5	4836.7
27.5°	5513.3	5522.1	5513.3	5421.0	5475.9	5519.8	5511.1	5504.5	5379.3	5177.2	4920.1
30°	5724.1	5711.0	5642.9	5456.1	5506.7	5568.1	5559.4	5563.8	5497.8	5344.1	5107.0
32.5°	6565.4	6506.2	6290.8	5766.0	5631.8	5664.8	5669.3	5741.6	5752.7	5601.1	5396.8
35°	7824.0	7758.1	7479.2	6596.2	6020.7	5906.4	5906.4	6016.3	6082.2	5970.1	5847.2
37.5°	9157.3	9084.7	8935.4	7747.2	6837.8	6326.0	6315.1	6391.9	6486.3	6512.7	6543.4
40°	10672.9	10596.0	10637.8	9038.7	7977.8	7053.0	6897.0	6842.2	7097.0	7266.1	7512.0
42.5°	12331.3	12296.1	12311.5	10477.4	9275.9	8140.4	7918.5	7635.1	7942.6	8243.6	8759.7
45°	13866.6	13897.4	13882.0	12017.2	10721.2	9467.0	9232.1	8682.8	8983.8	9499.9	10341.2
47.5°	15210.9	15083.5	15281.2	13699.7	12340.0	10951.9	10662.0	9926.1	10231.3	10868.5	12291.8
50°	16843.0	16825.3	16535.5	15944.6	14297.2	12443.3	12063.2	11211.0	11685.5	12570.7	14749.6
52.5°	18558.4	18239.9	17974.1	17690.9	16372.9	13972.1	13506.5	12491.7	13394.4	14508.0	17745.7
55°	18909.9	18767.1	19096.6	19573.2	18373.9	15560.1	15017.7	14097.3	15318.5	16722.0	21200.8
57.5°	19661.1	19658.9	20339.9	21189.8	20434.3	17244.9	16698.0	16036.8	17482.2	19259.1	24868.9
60°	20168.4	20311.2	21576.4	23225.9	22457.3	19191.0	18688.0	18275.1	19942.3	22094.8	28286.8
62.5°	20434.3	20627.5	22354.1	24051.8	25317.1	22430.9	21927.8	21332.6	23197.6	25205.2	30285.6
65°	19329.4	19709.4	22233.2	24765.8	27821.1	27682.8	27456.5	26411.0	27267.6	27662.9	29563.0
67.5°	16271.8	16660.7	19599.6	24100.3	29609.2	32747.9	32796.3	31010.5	29771.6	27873.9	24855.8
70°	11593.3	11898.6	14330.1	20205.8	28247.3	36058.1	36222.8	33130.1	29273.1	24719.6	17365.8
72.5°	5504.5	5691.2	7993.2	13150.6	22415.4	33037.9	33356.4	30424.1	24891.0	18301.3	9473.5
75°	2023.1	2080.1	2701.7	5594.6	13001.2	24363.8	24739.4	21809.3	16500.2	9111.1	3608.9
77.5°	1212.5	1249.8	1515.6	2361.3	5113.5	13926.0	14481.7	11861.2	7211.1	3391.5	1774.8
80°	847.9	874.2	1087.3	1469.4	2416.3	5306.7	5801.1	4841.1	2873.0	2146.1	1291.6
82.5°	573.3	586.5	764.4	992.8	1605.7	1895.7	2044.9	2152.6	1937.4	1596.8	819.3
85°	375.6	388.7	518.4	654.5	1021.5	979.6	1001.6	1267.4	1414.6	1085.2	454.7
87.5°	215.2	224.0	311.9	349.3	500.9	415.1	419.6	667.7	905.0	731.4	276.8
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°	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6	5238.6
2.5°	5219.0	5190.3	5126.6	5087.1	5049.8	5041.0	5025.7	5023.4	5021.3	5021.3	5014.7
5°	5102.6	5054.3	4955.4	4900.4	4854.4	4849.9	4847.8	4858.8	4863.2	4867.5	4860.9
7.5°	5027.9	4962.0	4838.9	4759.8	4705.0	4691.8	4713.8	4764.3	4797.2	4810.3	4803.7
10°	4981.7	4900.4	4757.7	4672.1	4625.9	4619.3	4647.8	4707.2	4775.2	4801.6	4799.5
12.5°	4929.0	4836.7	4685.2	4595.1	4568.8	4582.0	4619.3	4674.2	4744.5	4786.2	4788.4
15°	4876.3	4768.7	4612.6	4533.7	4522.6	4540.3	4575.3	4617.1	4672.1	4713.8	4718.2
17.5°	4812.6	4700.6	4544.6	4463.3	4454.5	4463.3	4465.6	4487.6	4522.6	4562.2	4573.1
20°	4744.5	4630.3	4467.7	4386.5	4346.9	4311.8	4272.2	4276.7	4287.6	4327.1	4335.8
22.5°	4696.2	4582.0	4408.4	4296.5	4191.0	4085.5	4006.4	3995.5	3999.9	4032.9	4043.8
25°	4700.6	4579.7	4393.0	4199.8	3969.2	3800.0	3694.5	3677.0	3674.7	3699.0	3714.3
27.5°	4786.2	4665.3	4450.2	4100.9	3727.4	3477.1	3365.1	3351.8	3334.2	3340.8	3358.5
30°	4977.2	4865.3	4588.5	3999.9	3466.1	3160.7	3044.4	3031.2	3007.0	2996.0	3009.2
32.5°	5289.2	5197.0	4790.7	3903.2	3204.8	2890.7	2772.0	2743.5	2728.2	2714.9	2725.8
35°	5807.6	5768.0	5060.8	3797.8	2974.1	2682.0	2574.4	2530.3	2508.4	2532.6	2550.2
37.5°	6620.2	6642.2	5414.4	3633.0	2796.2	2543.6	2453.5	2403.0	2370.1	2389.9	2409.6
40°	7771.2	7786.7	5805.3	3400.3	2642.5	2462.3	2365.6	2319.6	2273.4	2238.2	2236.1
42.5°	9282.5	9126.5	6189.9	3147.7	2464.5	2411.8	2304.2	2247.0	2176.8	2080.1	2060.4
45°	11074.8	10528.0	6481.9	2857.7	2264.5	2350.2	2236.1	2157.0	2047.1	1941.7	1930.7
47.5°	13139.6	12032.5	6624.7	2556.8	2077.9	2260.2	2152.6	2027.4	1889.0	1836.2	1829.7
50°	15661.2	13818.3	6692.8	2264.5	1915.4	2141.6	2031.7	1884.6	1768.3	1757.3	1750.6
52.5°	18532.0	15966.6	6714.8	2025.1	1781.3	1987.9	1933.0	1790.1	1697.8	1706.7	1706.7
55°	21537.0	18185.0	6416.1	1851.6	1658.5	1829.7	1867.0	1752.9	1676.0	1711.1	1724.2
57.5°	24295.6	20150.9	5475.9	1717.6	1542.0	1708.8	1843.0	1787.9	1735.3	1878.0	1886.8
60°	26413.1	21312.8	4090.0	1596.8	1456.3	1667.2	1906.7	1922.0	1935.0	2275.5	2321.7
62.5°	26856.8	20926.2	2811.5	1502.4	1416.7	1702.3	2023.1	2025.1	2009.8	2247.0	2275.5
65°	24820.7	18481.5	2044.9	1449.8	1383.7	1766.0	2121.8	2075.8	1974.7	2154.8	2102.0
67.5°	19711.6	13923.8	1702.3	1410.2	1335.5	1761.5	2227.3	2121.8	1954.9	2110.8	2025.1
70°	12794.6	8419.3	1515.6	1377.2	1278.4	1678.2	2288.8	2117.5	1897.8	1963.7	1862.6
72.5°	6242.5	3764.8	1390.3	1329.0	1219.1	1561.8	2286.5	2077.9	1838.6	1834.1	1779.3
75°	2442.5	1724.2	1276.2	1256.4	1118.0	1429.9	2225.1	2020.7	1768.3	1697.8	1678.2
77.5°	1429.9	1230.0	1131.2	1148.8	997.2	1298.1	2135.0	1922.0	1671.6	1588.1	1566.1
80°	1041.1	920.4	964.3	992.8	852.2	1166.4	2014.2	1801.1	1563.9	1605.7	1574.9
82.5°	667.7	593.2	782.0	810.5	709.5	1032.3	1882.4	1673.7	1412.3	1282.8	1252.0
85°	340.5	375.6	582.1	617.2	547.0	847.9	1722.1	1504.7	1241.1	1067.5	1085.2
87.5°	191.1	256.9	371.2	415.1	386.6	652.3	1397.0	1241.1	1012.6	823.7	724.8
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)