

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: P193317

Luminaire Tested: **GAN-AF-09-LED-U-T4W-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193317
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-09-LED-U-T4W-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 51108.2 lumens
Efficiency: N/A
Efficacy: 102.0 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): 501
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

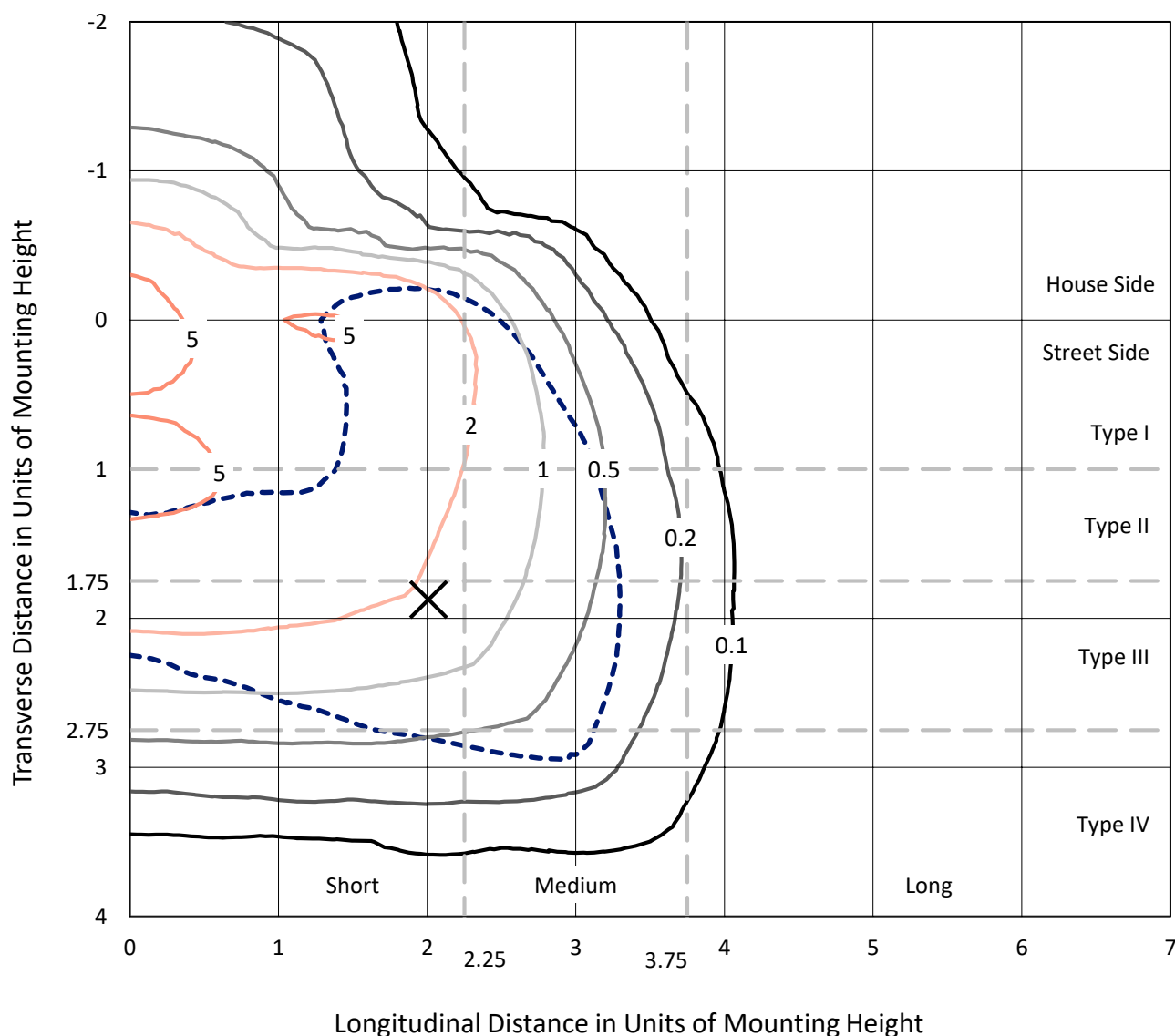


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

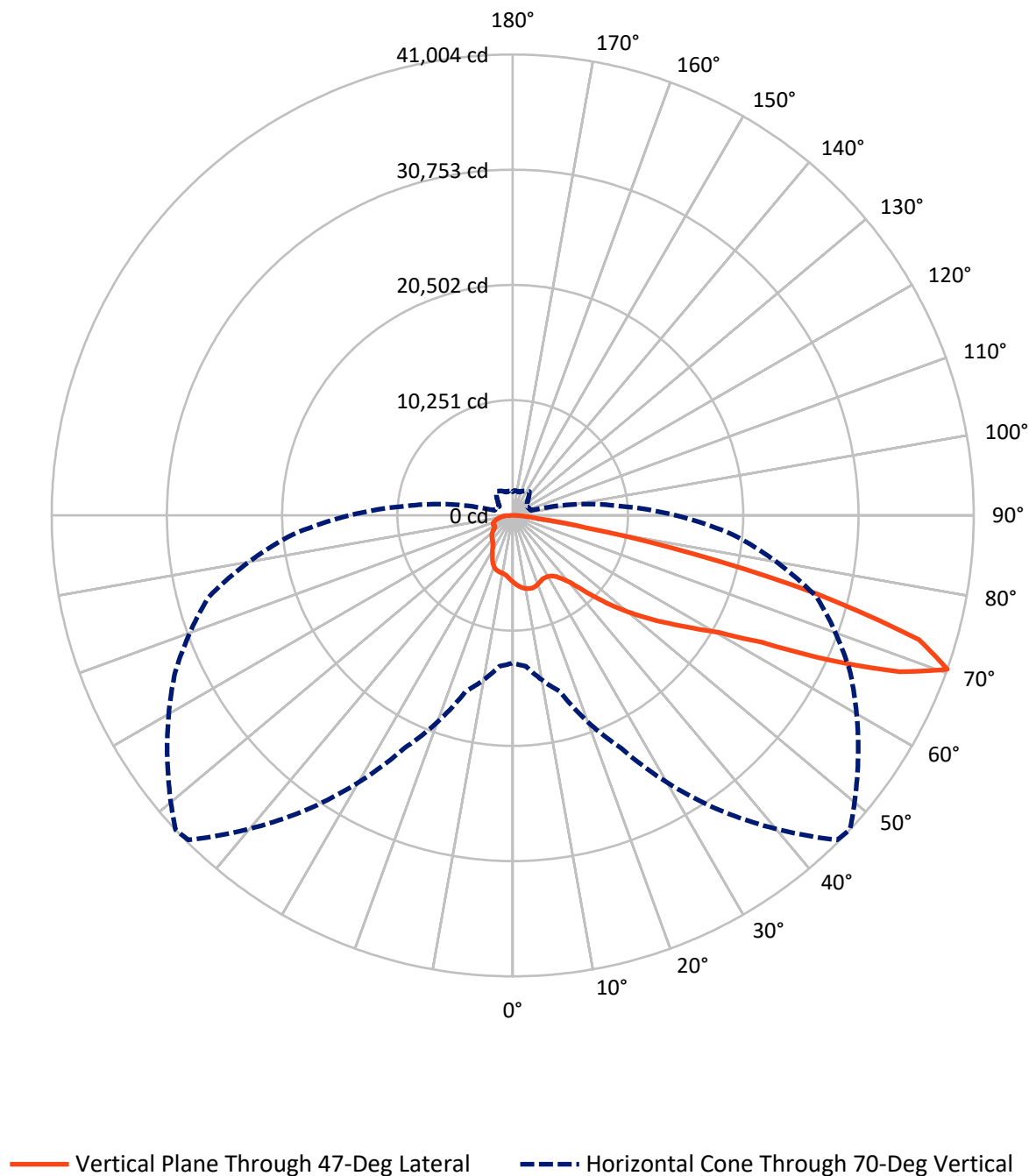


Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10662.2	0.0	10662.2
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	40446.0	0.0	40446.0
	% Fixture	79.1	0.0	79.1
Total	Lumens	51108.2	0.0	51108.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.2	1.1
10°-20°	1667.0	3.3
20°-30°	2461.7	4.8
30°-40°	3578.0	7.0
40°-50°	6439.1	12.6
50°-60°	11155.1	21.8
60°-70°	15921.6	31.2
70°-80°	8173.3	16.0
80°-90°	1144.3	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°	51108.2	100.0
0°-180°	51108.2	100.0

Coefficient of Utilization



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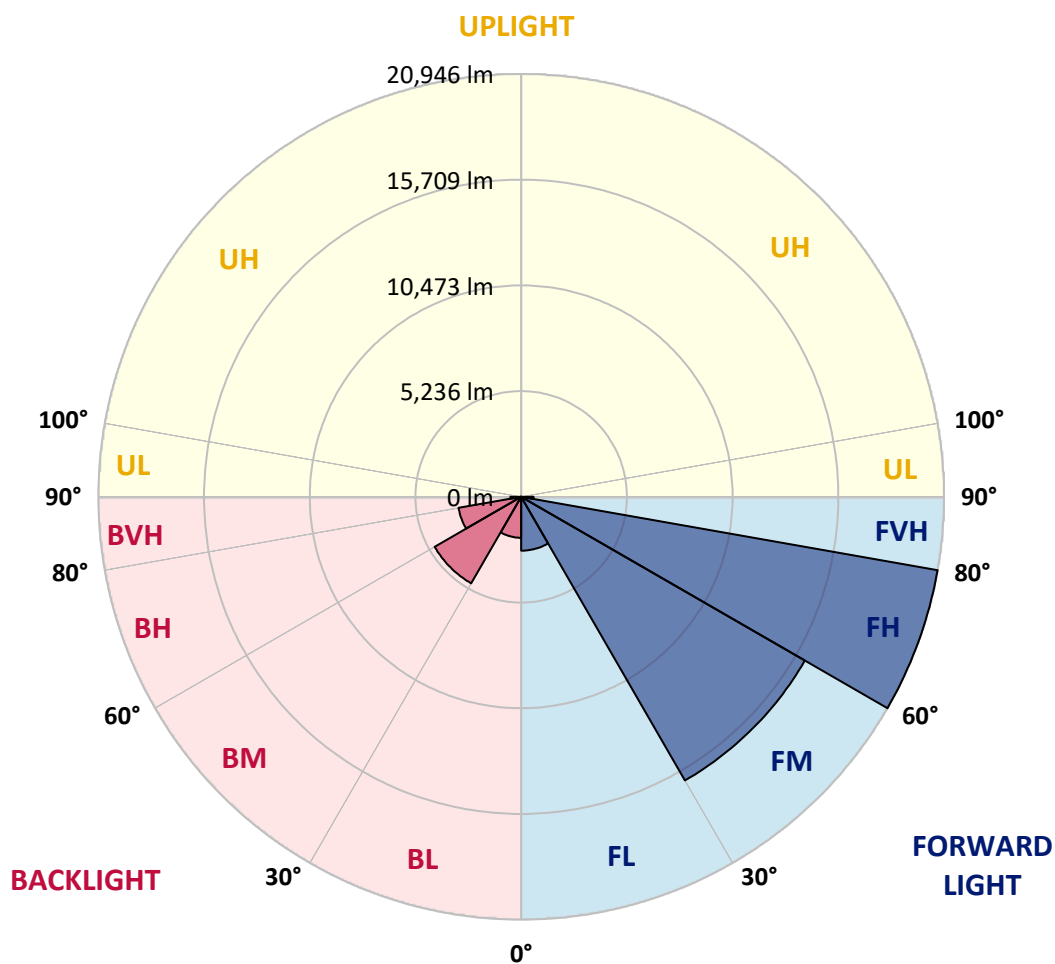
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2666.7	5.2			
FM	(30°-60°)	16223.2	31.7			
FH	(60°-80°)	20945.5	41.0			G5
FVH	(80°-90°)	610.6	1.2			G4/750
BL	(0°-30°)	2030.1	4.0	B3/2500		
BM	(30°-60°)	4949.1	9.7	B3/5000		
BH	(60°-80°)	3149.3	6.2	B4/5000		G4/5000
BVH	(80°-90°)	533.7	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°	5930.1	5930.1	5930.1	5930.1	5930.1	5930.1	5930.1	5930.1	5930.1	5930.1	5930.1
2.5°	6278.2	6265.8	6260.9	6250.9	6238.4	6176.3	6163.9	6119.1	6056.9	5992.4	5925.1
5°	6691.0	6688.6	6661.1	6611.4	6531.8	6395.1	6362.8	6253.4	6106.7	5964.9	5823.2
7.5°	7054.0	7031.6	6979.4	6879.9	6740.7	6554.3	6509.4	6357.8	6156.4	5962.5	5771.0
10°	7320.1	7307.6	7193.3	7056.5	6875.0	6668.6	6616.4	6447.3	6226.0	5979.9	5741.1
12.5°	7471.7	7446.9	7315.1	7151.0	6934.6	6733.2	6681.1	6509.4	6260.9	5979.9	5698.9
15°	7461.8	7444.4	7312.6	7133.5	6914.8	6738.2	6691.0	6519.4	6253.4	5954.9	5644.3
17.5°	7262.9	7270.3	7158.4	6981.8	6802.9	6668.6	6626.3	6467.2	6203.6	5905.3	5579.6
20°	6914.8	6949.6	6875.0	6718.4	6618.9	6526.9	6499.5	6365.2	6126.6	5833.2	5510.0
22.5°	6566.7	6599.0	6569.1	6437.3	6422.5	6367.7	6352.9	6255.8	6059.4	5788.4	5467.7
25°	6310.6	6340.5	6335.4	6221.0	6265.8	6263.3	6250.9	6203.6	6044.6	5788.4	5475.1
27.5°	6241.0	6250.9	6241.0	6136.5	6198.8	6248.4	6238.4	6231.0	6089.2	5860.5	5569.6
30°	6479.6	6464.8	6387.7	6176.3	6233.5	6303.0	6293.2	6298.1	6223.5	6049.4	5780.9
32.5°	7432.0	7364.8	7121.2	6526.9	6375.2	6412.5	6417.5	6499.5	6512.0	6340.5	6109.1
35°	8856.7	8782.0	8466.3	7466.8	6815.3	6686.0	6686.0	6810.3	6885.0	6758.1	6618.9
37.5°	10366.0	10283.9	10114.7	8769.7	7740.3	7161.0	7148.5	7235.4	7342.4	7372.3	7407.1
40°	12081.6	11994.6	12041.8	10231.7	9030.8	7983.9	7807.4	7745.3	8033.7	8225.1	8503.6
42.5°	13958.9	13919.1	13936.4	11860.3	10500.3	9214.7	8963.6	8642.9	8991.0	9331.7	9916.0
45°	15696.8	15731.7	15714.2	13603.4	12136.3	10716.4	10450.4	9828.9	10169.6	10753.9	11706.1
47.5°	17218.5	17074.4	17298.2	15507.9	13968.8	12397.3	12069.1	11236.2	11581.8	12302.9	13914.0
50°	19066.0	19046.1	18717.9	18049.0	16184.2	14085.6	13655.4	12690.8	13227.8	14229.8	16696.4
52.5°	21007.9	20647.4	20346.5	20025.7	18533.8	15816.2	15289.0	14140.4	15162.2	16422.9	20087.9
55°	21405.7	21244.1	21617.1	22156.5	20799.0	17613.9	16999.7	15958.0	17340.4	18929.1	23999.1
57.5°	22256.1	22253.6	23024.4	23986.7	23131.3	19521.1	18901.9	18153.4	19789.5	21801.0	28151.4
60°	22830.4	22992.1	24424.3	26291.5	25421.3	21724.0	21154.6	20687.1	22574.3	25011.1	32020.3
62.5°	23131.3	23350.2	25304.5	27226.5	28658.6	25391.5	24822.1	24148.3	26259.3	28531.9	34283.0
65°	21880.6	22310.7	25167.7	28034.5	31493.1	31336.5	31080.4	29896.8	30866.7	31314.1	33464.9
67.5°	18419.5	18859.6	22186.4	27281.2	33517.1	37070.2	37124.9	35103.5	33701.1	31552.9	28136.5
70°	13123.3	13469.1	16221.5	22872.7	31975.5	40817.3	41003.8	37502.9	33136.7	27982.3	19657.7
72.5°	6231.0	6442.4	9048.1	14886.2	25374.1	37398.5	37759.0	34439.6	28176.3	20716.9	10724.1
75°	2290.0	2354.6	3058.2	6333.0	14717.2	27579.5	28004.7	24687.7	18678.1	10313.7	4085.2
77.5°	1372.6	1414.8	1715.6	2672.9	5788.4	15764.0	16393.0	13426.8	8163.0	3839.1	2009.1
80°	959.8	989.6	1230.8	1663.5	2735.1	6007.2	6566.7	5480.1	3252.2	2429.3	1462.0
82.5°	649.0	663.9	865.3	1123.8	1817.6	2145.8	2314.8	2436.7	2193.1	1807.5	927.4
85°	425.1	440.1	586.8	741.0	1156.2	1109.0	1133.8	1434.7	1601.3	1228.3	514.7
87.5°	243.6	253.6	353.1	395.3	566.9	470.0	474.9	755.8	1024.5	827.9	313.2
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°	5930.1	5930.1	5930.1	5930.1	5930.1	5930.1	5930.1	5930.1	5930.1	5930.1	5930.1
2.5°	5907.7	5875.4	5803.3	5758.6	5716.3	5706.4	5688.9	5686.5	5684.0	5684.0	5676.6
5°	5776.0	5721.3	5609.4	5547.2	5494.9	5490.1	5487.5	5500.0	5504.9	5510.0	5502.6
7.5°	5691.5	5616.8	5477.6	5388.1	5326.0	5311.0	5335.9	5393.0	5430.4	5445.3	5437.9
10°	5639.2	5547.2	5385.6	5288.7	5236.5	5228.9	5261.3	5328.5	5405.5	5435.3	5432.8
12.5°	5579.6	5475.1	5303.6	5201.7	5171.8	5186.6	5228.9	5291.1	5370.7	5417.9	5420.5
15°	5519.9	5398.1	5221.5	5132.0	5119.6	5139.4	5179.2	5226.5	5288.7	5335.9	5340.8
17.5°	5447.7	5320.9	5144.5	5052.4	5042.6	5052.4	5054.9	5079.8	5119.6	5164.3	5176.7
20°	5370.7	5241.3	5057.4	4965.4	4920.6	4880.8	4836.2	4841.1	4853.6	4898.3	4908.3
22.5°	5316.0	5186.6	4990.3	4863.4	4744.1	4624.7	4535.3	4522.8	4527.8	4565.1	4577.5
25°	5320.9	5184.3	4972.8	4754.1	4493.0	4301.5	4182.2	4162.3	4159.8	4187.2	4204.6
27.5°	5417.9	5281.1	5037.5	4642.2	4219.5	3936.1	3809.3	3794.2	3774.4	3781.9	3801.7
30°	5634.3	5507.4	5194.1	4527.8	3923.6	3578.0	3446.1	3431.3	3404.0	3391.5	3406.3
32.5°	5987.3	5882.8	5422.9	4418.5	3627.7	3272.1	3137.9	3105.5	3088.1	3073.3	3085.7
35°	6574.1	6529.4	5728.8	4299.1	3366.6	3036.0	2914.1	2864.3	2839.5	2866.9	2886.7
37.5°	7494.1	7519.0	6129.0	4112.5	3165.2	2879.3	2777.4	2720.1	2682.9	2705.3	2727.6
40°	8797.0	8814.4	6571.6	3848.9	2991.2	2787.3	2677.8	2625.7	2573.5	2533.7	2531.2
42.5°	10507.7	10331.1	7006.8	3563.1	2789.8	2730.1	2608.2	2543.7	2464.1	2354.6	2332.2
45°	12536.6	11917.5	7337.5	3234.8	2563.5	2660.5	2531.2	2441.7	2317.4	2198.0	2185.6
47.5°	14873.8	13620.7	7499.1	2894.2	2352.2	2558.6	2436.7	2295.0	2138.3	2078.6	2071.2
50°	17728.3	15642.1	7576.1	2563.5	2168.1	2424.3	2299.9	2133.4	2001.6	1989.2	1981.6
52.5°	20978.0	18073.8	7601.0	2292.5	2016.5	2250.2	2188.0	2026.4	1922.0	1931.9	1931.9
55°	24379.4	20585.2	7262.9	2096.0	1877.3	2071.2	2113.5	1984.1	1897.2	1936.9	1951.8
57.5°	27502.4	22810.5	6198.8	1944.4	1745.5	1934.4	2086.1	2023.9	1964.3	2125.8	2135.8
60°	29899.4	24125.9	4629.8	1807.5	1648.5	1887.2	2158.2	2175.7	2190.5	2575.9	2628.1
62.5°	30401.6	23688.3	3182.6	1700.7	1603.7	1927.0	2290.0	2292.5	2275.1	2543.7	2575.9
65°	28096.7	20920.9	2314.8	1641.1	1566.4	1999.1	2401.8	2349.7	2235.3	2439.2	2379.5
67.5°	22313.3	15761.5	1927.0	1596.3	1511.7	1994.1	2521.2	2401.8	2212.9	2389.5	2292.5
70°	14483.5	9530.4	1715.6	1559.0	1447.1	1899.6	2590.9	2396.9	2148.2	2222.9	2108.4
72.5°	7066.5	4261.7	1573.9	1504.3	1380.0	1767.9	2588.4	2352.2	2081.2	2076.2	2013.9
75°	2765.0	1951.8	1444.6	1422.2	1265.5	1618.6	2518.8	2287.6	2001.6	1922.0	1899.6
77.5°	1618.6	1392.4	1280.5	1300.4	1128.8	1469.4	2416.9	2175.7	1892.2	1797.7	1772.8
80°	1178.6	1041.8	1091.5	1123.8	964.8	1320.3	2280.0	2038.9	1770.3	1817.6	1782.8
82.5°	755.8	671.3	885.2	917.4	803.2	1168.6	2130.9	1894.7	1598.8	1452.0	1417.3
85°	385.3	425.1	659.0	698.7	619.2	959.8	1949.4	1703.3	1404.8	1208.4	1228.3
87.5°	216.4	290.9	420.2	470.0	437.6	738.5	1581.4	1404.8	1146.2	932.4	820.5
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)