

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: P193316

Luminaire Tested: **GAN-AF-08-LED-U-T4W-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193316
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-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 45816.8 lumens
Efficiency: N/A
Efficacy: 103.0 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): 445
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

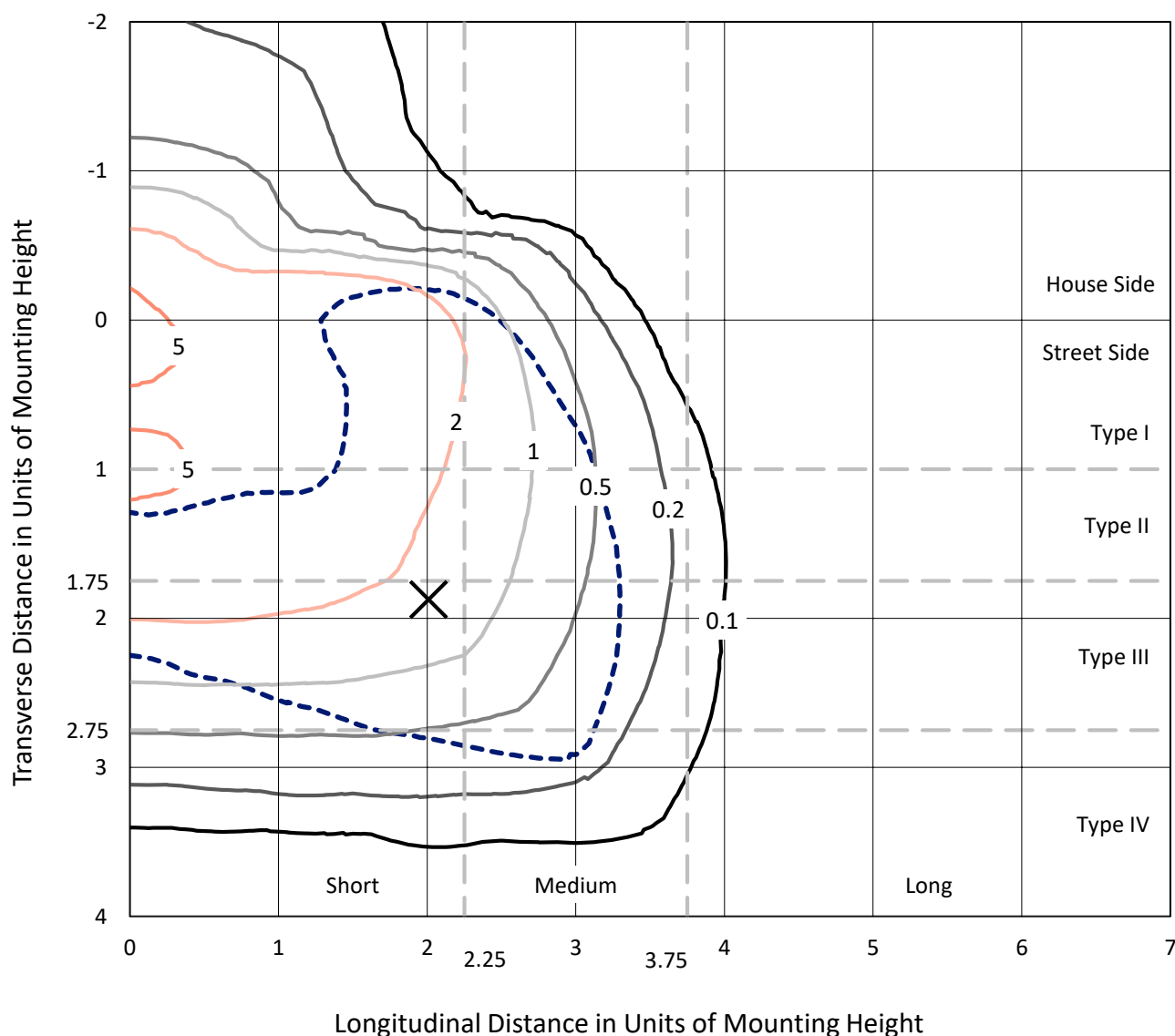


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

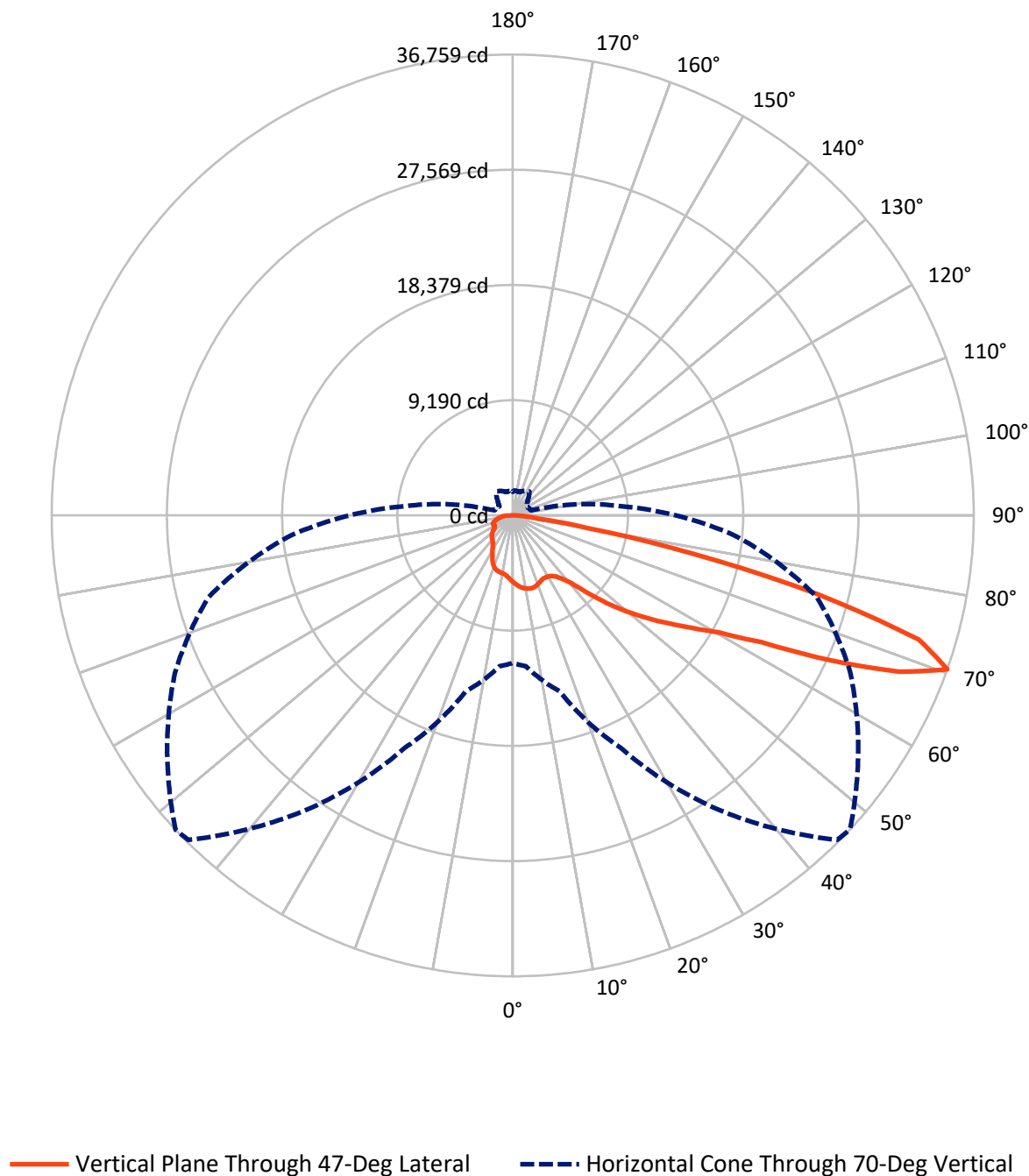


Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9558.3	0.0	9558.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	36258.5	0.0	36258.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	45816.8	0.0	45816.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.4	1.1
10°-20°	1494.4	3.3
20°-30°	2206.8	4.8
30°-40°	3207.5	7.0
40°-50°	5772.5	12.6
50°-60°	10000.2	21.8
60°-70°	14273.2	31.2
70°-80°	7327.1	16.0
80°-90°	1025.8	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°	45816.8	100.0
0°-180°	45816.8	100.0

Coefficient of Utilization



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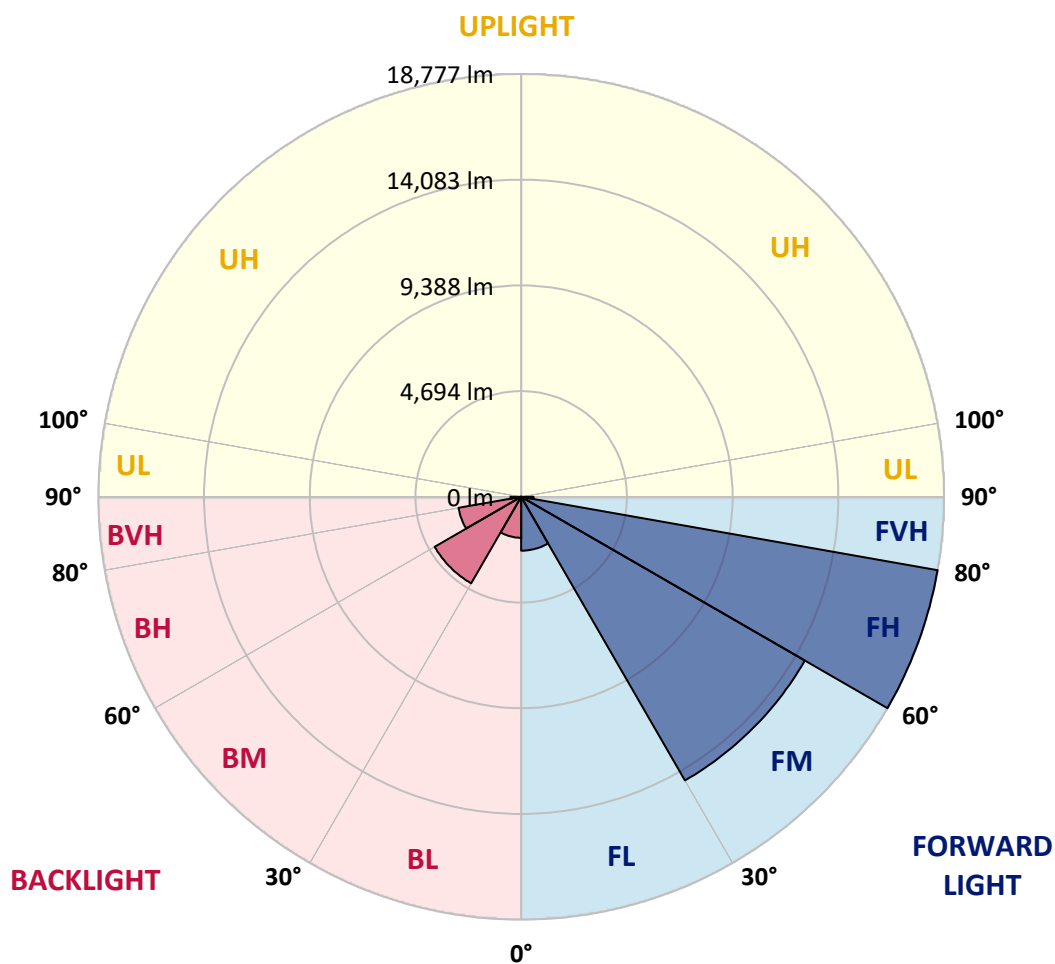
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2390.6	5.2			
FM	(30°-60°)	14543.5	31.7			
FH	(60°-80°)	18777.0	41.0			G5
FVH	(80°-90°)	547.4	1.2			G4/750
BL	(0°-30°)	1820.0	4.0	B3/2500		
BM	(30°-60°)	4436.7	9.7	B3/5000		
BH	(60°-80°)	2823.2	6.2	B4/5000		G4/5000
BVH	(80°-90°)	478.4	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°	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1
2.5°	5628.3	5617.1	5612.6	5603.7	5592.6	5536.8	5525.7	5485.6	5429.8	5371.9	5311.7
5°	5998.3	5996.0	5971.4	5926.9	5855.6	5733.0	5704.0	5606.0	5474.4	5347.3	5220.3
7.5°	6323.7	6303.6	6256.8	6167.6	6042.8	5875.6	5835.5	5699.5	5519.0	5345.2	5173.5
10°	6562.2	6551.0	6448.5	6325.9	6163.2	5978.2	5931.3	5779.9	5581.4	5360.8	5146.7
12.5°	6698.1	6675.8	6557.7	6410.6	6216.8	6036.1	5989.4	5835.5	5612.6	5360.8	5108.9
15°	6689.3	6673.7	6555.4	6395.1	6198.9	6040.6	5998.3	5844.5	5606.0	5338.5	5059.8
17.5°	6510.9	6517.7	6417.4	6259.0	6098.6	5978.2	5940.3	5797.7	5561.4	5293.8	5001.9
20°	6198.9	6230.1	6163.2	6022.8	5933.7	5851.2	5826.6	5706.3	5492.3	5229.2	4939.5
22.5°	5886.8	5915.8	5889.1	5770.8	5757.5	5708.5	5695.1	5608.2	5432.1	5189.2	4901.6
25°	5657.2	5684.0	5679.6	5576.9	5617.1	5614.9	5603.7	5561.4	5418.7	5189.2	4908.3
27.5°	5594.8	5603.7	5594.8	5501.2	5556.9	5601.5	5592.6	5585.9	5458.8	5253.7	4992.9
30°	5808.8	5795.4	5726.3	5536.8	5588.1	5650.6	5641.6	5646.1	5579.3	5423.2	5182.3
32.5°	6662.5	6602.3	6383.9	5851.2	5715.2	5748.5	5753.0	5826.6	5837.7	5684.0	5476.6
35°	7939.8	7872.7	7589.8	6693.7	6109.7	5993.8	5993.8	6105.2	6172.0	6058.4	5933.7
37.5°	9292.7	9219.2	9067.5	7861.6	6938.8	6419.5	6408.4	6486.4	6582.3	6609.0	6640.2
40°	10830.8	10752.8	10795.1	9172.4	8095.8	7157.3	6999.0	6943.3	7202.0	7373.6	7623.2
42.5°	12513.6	12478.0	12493.6	10632.3	9413.1	8260.6	8035.6	7748.0	8060.0	8365.4	8889.3
45°	14071.7	14102.8	14087.4	12194.9	10879.8	9607.0	9368.6	8811.2	9116.6	9640.5	10494.2
47.5°	15435.8	15306.5	15507.1	13902.2	12522.5	11113.9	10819.6	10072.8	10382.7	11029.0	12473.5
50°	17092.0	17074.2	16779.9	16180.3	14508.5	12627.3	12241.7	11376.8	11858.4	12756.6	14967.8
52.5°	18832.8	18509.6	18240.0	17952.4	16614.9	14178.7	13706.1	12676.4	13592.5	14722.5	18008.1
55°	19189.5	19044.7	19379.0	19862.7	18645.6	15790.2	15239.7	14305.8	15545.1	16969.4	21514.4
57.5°	19951.9	19949.5	20640.6	21503.2	20736.5	17499.9	16944.9	16273.9	17740.7	19543.9	25236.8
60°	20466.7	20611.5	21895.4	23569.5	22789.3	19474.8	18964.3	18545.3	20237.1	22421.5	28705.1
62.5°	20736.5	20932.6	22684.5	24407.5	25691.4	22762.5	22252.2	21648.1	23540.5	25577.8	30733.5
65°	19615.2	20000.9	22561.9	25132.1	28232.6	28092.0	27862.5	26801.6	27670.9	28072.1	30000.2
67.5°	16512.5	16907.0	19889.4	24456.6	30047.0	33232.2	33281.3	31469.1	30212.0	28286.0	25223.4
70°	11764.7	12074.5	14542.0	20504.5	28664.9	36591.4	36758.5	33620.0	29706.0	25085.2	17622.5
72.5°	5585.9	5775.3	8111.3	13345.0	22747.0	33526.4	33849.6	30873.9	25259.1	18572.1	9613.7
75°	2052.9	2110.9	2741.7	5677.2	13193.5	24724.1	25105.3	22131.8	16744.3	9245.9	3662.3
77.5°	1230.4	1268.3	1538.1	2396.2	5189.2	14131.9	14695.8	12036.6	7317.8	3441.5	1801.0
80°	860.4	887.1	1103.4	1491.2	2451.9	5385.3	5886.8	4912.8	2915.6	2177.7	1310.7
82.5°	581.8	595.1	775.7	1007.5	1629.4	1923.6	2075.2	2184.4	1966.0	1620.6	831.5
85°	381.2	394.5	526.1	664.3	1036.5	994.1	1016.4	1286.1	1435.4	1101.2	461.4
87.5°	218.4	227.4	316.6	354.4	508.2	421.3	425.8	677.6	918.4	742.3	280.9
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°	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1	5316.1
2.5°	5296.2	5267.2	5202.5	5162.4	5124.5	5115.5	5100.0	5097.7	5095.6	5095.6	5088.9
5°	5178.1	5128.9	5028.6	4972.9	4926.1	4921.7	4919.4	4930.6	4935.0	4939.5	4932.8
7.5°	5102.2	5035.3	4910.5	4830.3	4774.5	4761.2	4783.5	4834.7	4868.1	4881.4	4874.8
10°	5055.4	4972.9	4828.0	4741.1	4694.4	4687.6	4716.6	4776.7	4845.8	4872.6	4870.3
12.5°	5001.9	4908.3	4754.4	4663.0	4636.3	4649.7	4687.6	4743.3	4814.6	4857.0	4859.2
15°	4948.4	4839.2	4680.8	4600.7	4589.6	4607.4	4643.0	4685.4	4741.1	4783.5	4787.8
17.5°	4883.8	4770.0	4611.9	4529.4	4520.4	4529.4	4531.5	4553.8	4589.6	4629.7	4640.8
20°	4814.6	4698.7	4533.8	4451.3	4411.3	4375.5	4335.4	4339.9	4351.0	4391.1	4400.1
22.5°	4765.6	4649.7	4473.6	4359.9	4252.9	4146.0	4065.7	4054.6	4059.0	4092.5	4103.6
25°	4770.0	4647.5	4458.0	4261.8	4027.9	3856.2	3749.2	3731.3	3729.1	3753.6	3769.2
27.5°	4857.0	4734.4	4516.0	4161.5	3782.7	3528.5	3414.8	3401.5	3383.6	3390.4	3408.2
30°	5050.9	4937.2	4656.4	4059.0	3517.4	3207.6	3089.5	3075.9	3051.5	3040.3	3053.7
32.5°	5367.5	5273.8	4861.5	3960.9	3252.1	2933.4	2813.0	2784.0	2768.4	2755.1	2766.2
35°	5893.5	5853.3	5135.6	3853.9	3018.1	2721.6	2612.4	2567.8	2545.5	2570.0	2588.0
37.5°	6718.3	6740.5	5494.5	3686.7	2837.6	2581.1	2489.8	2438.5	2405.2	2425.1	2445.2
40°	7886.3	7901.8	5891.3	3450.5	2681.4	2498.8	2400.7	2353.9	2307.0	2271.4	2269.1
42.5°	9419.8	9261.5	6281.4	3194.2	2501.0	2447.4	2338.2	2280.2	2208.9	2110.9	2090.7
45°	11238.6	10683.6	6577.7	2900.0	2298.0	2385.0	2269.1	2188.9	2077.4	1970.5	1959.3
47.5°	13333.9	12210.5	6722.7	2594.6	2108.6	2293.7	2184.4	2057.4	1917.0	1863.4	1856.8
50°	15892.8	14022.7	6791.8	2298.0	1943.7	2173.2	2061.8	1912.5	1794.4	1783.2	1776.5
52.5°	18806.1	16202.6	6814.1	2055.1	1807.7	2017.3	1961.5	1816.7	1723.0	1732.0	1732.0
55°	21855.3	18453.9	6510.9	1879.0	1682.9	1856.8	1894.7	1778.7	1700.7	1736.3	1749.8
57.5°	24655.0	20448.9	5556.9	1743.1	1564.8	1734.2	1870.1	1814.4	1760.9	1905.8	1914.7
60°	26803.8	21628.0	4150.4	1620.6	1477.8	1691.8	1934.8	1950.4	1963.7	2309.2	2356.0
62.5°	27254.0	21235.7	2853.1	1524.6	1437.8	1727.5	2052.9	2055.1	2039.6	2280.2	2309.2
65°	25187.7	18754.8	2075.2	1471.1	1404.3	1792.1	2153.2	2106.4	2004.0	2186.6	2133.2
67.5°	20003.0	14129.6	1727.5	1431.0	1355.3	1787.7	2260.2	2153.2	1983.8	2142.0	2055.1
70°	12984.0	8543.7	1538.1	1397.5	1297.2	1703.0	2322.7	2148.8	1925.9	1992.8	1890.1
72.5°	6334.9	3820.5	1411.0	1348.6	1237.2	1584.8	2320.3	2108.6	1865.7	1861.2	1805.5
75°	2478.6	1749.8	1295.0	1274.9	1134.5	1451.1	2258.0	2050.7	1794.4	1723.0	1703.0
77.5°	1451.1	1248.3	1148.0	1165.8	1012.0	1317.3	2166.6	1950.4	1696.2	1611.6	1589.2
80°	1056.5	933.9	978.5	1007.5	864.9	1183.6	2044.0	1827.8	1587.1	1629.4	1598.3
82.5°	677.6	601.8	793.6	822.5	720.0	1047.6	1910.3	1698.6	1433.3	1301.8	1270.5
85°	345.5	381.2	590.6	626.4	555.0	860.4	1747.5	1526.9	1259.4	1083.3	1101.2
87.5°	193.9	260.8	376.7	421.3	392.3	662.0	1417.6	1259.4	1027.6	835.9	735.6
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)