

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: P191445

Luminaire Tested: **GAN-AF-07-LED-U-T3-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-T3-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34804.9 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

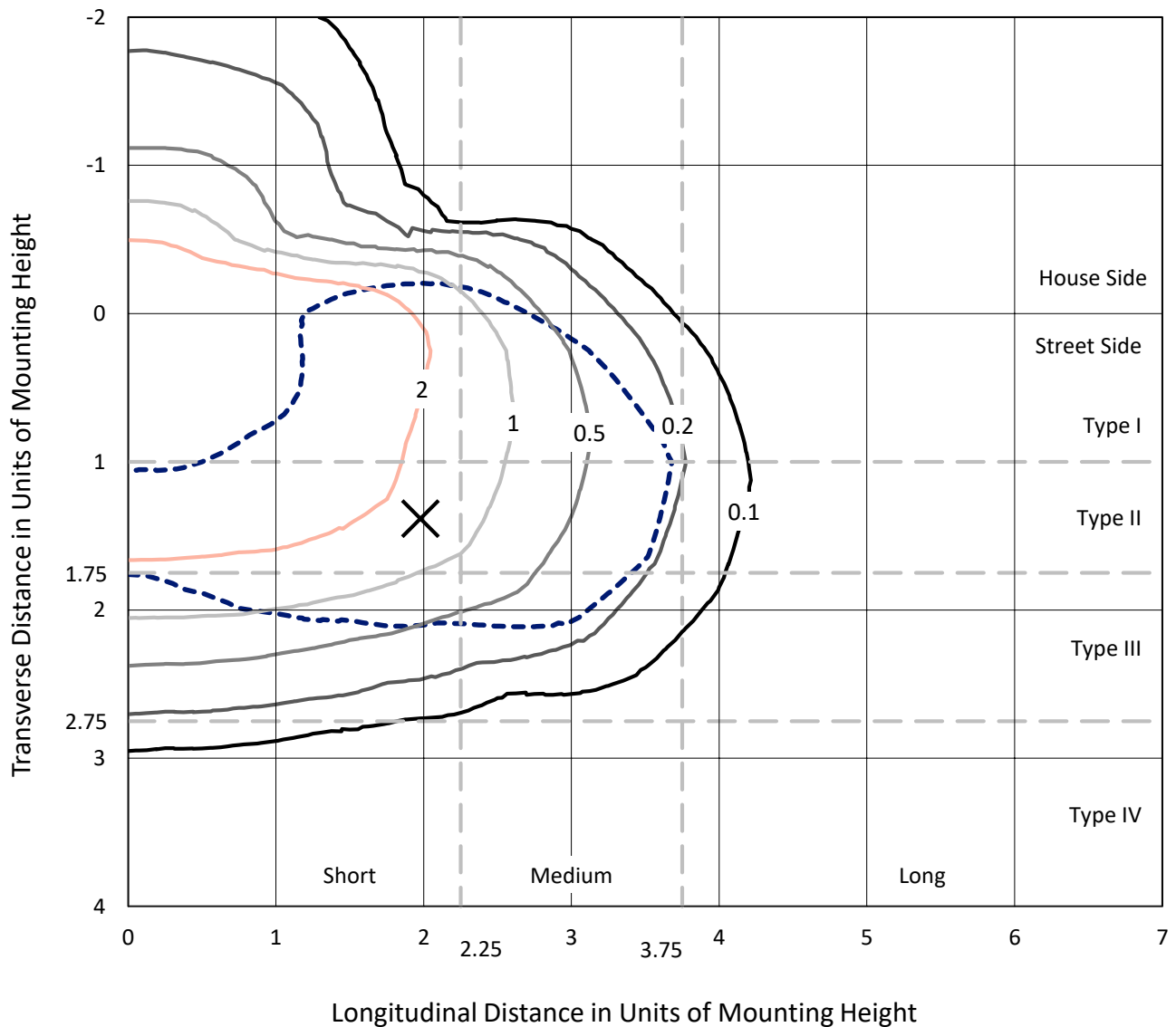
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

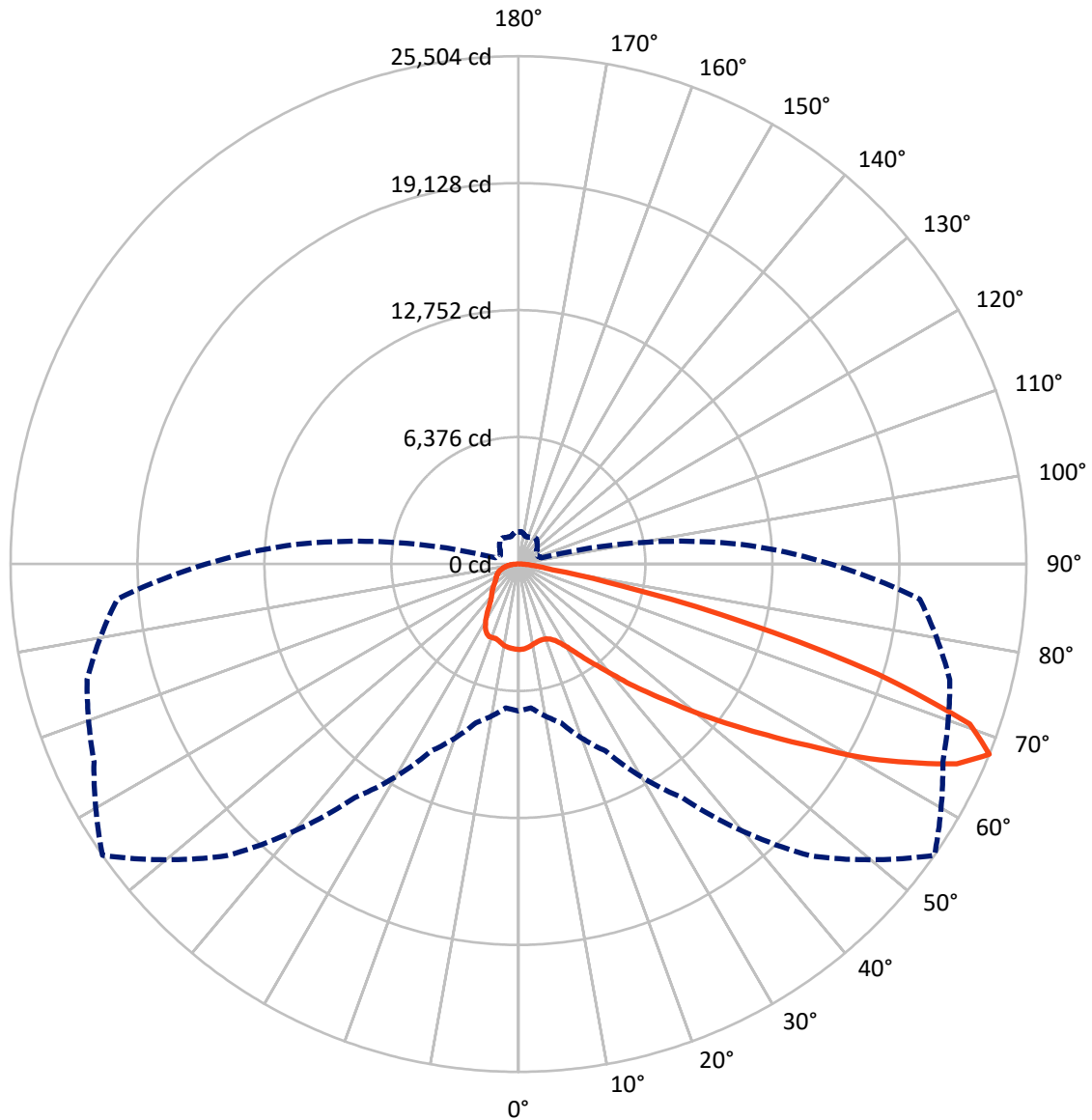


Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7518.6	0.0	7518.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	27286.3	0.0	27286.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	34804.9	0.0	34804.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.6	1.2
10°-20°	1134.5	3.3
20°-30°	1900.5	5.5
30°-40°	3125.3	9.0
40°-50°	5260.8	15.1
50°-60°	8280.1	23.8
60°-70°	9881.4	28.4
70°-80°	4243.2	12.2
80°-90°	578.5	1.7
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°	34804.9	100.0
0°-180°	34804.9	100.0



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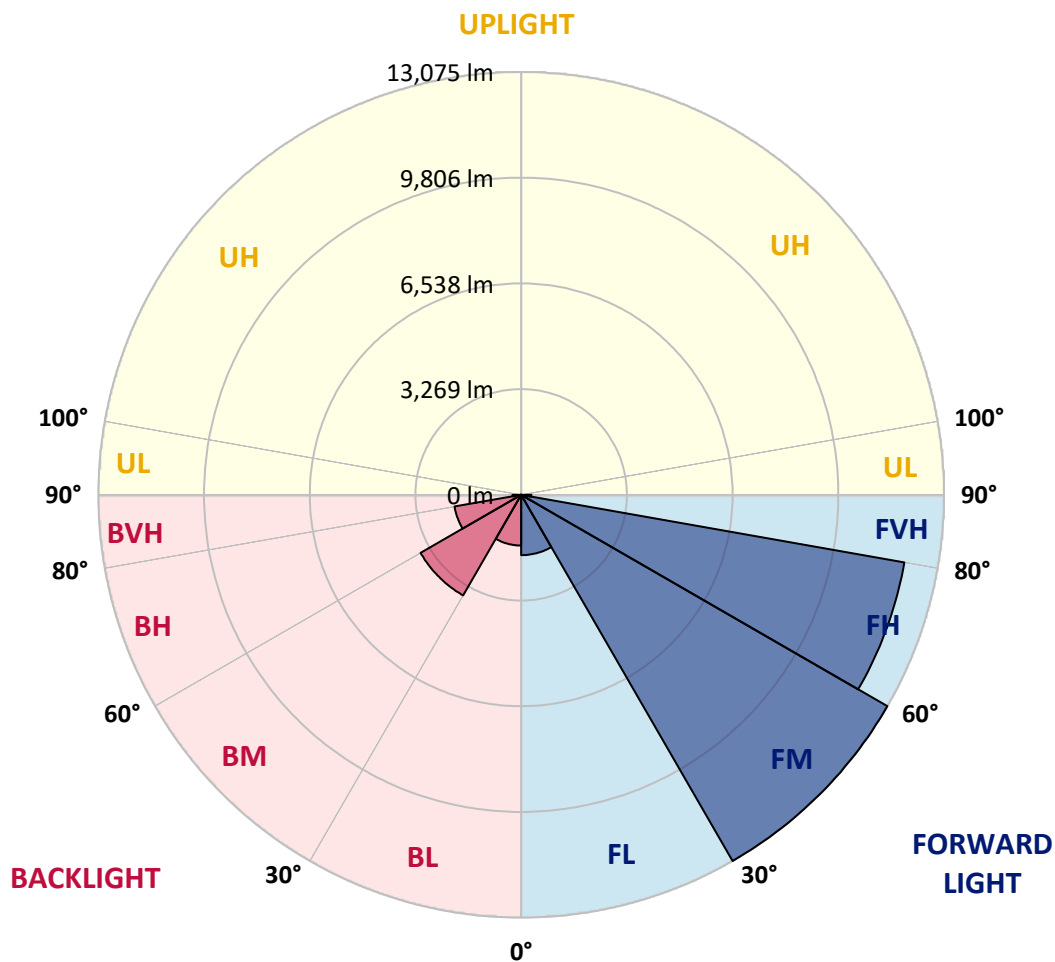
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1865.6	5.4			
FM (30°-60°)	13075.3	37.6			
FH (60°-80°)	12032.2	34.6			G5
FVH (80°-90°)	313.2	0.9			G3/500
BL (0°-30°)	1570.0	4.5	B3/2500		
BM (30°-60°)	3590.8	10.3	B3/5000		
BH (60°-80°)	2092.4	6.0	B3/2500		G3/2500
BVH (80°-90°)	265.4	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4291.8	4291.8	4291.8	4291.8	4291.8	4291.8	4291.8	4291.8	4291.8	4291.8	4291.8
2.5°	4254.9	4256.5	4259.9	4273.4	4285.1	4281.8	4283.4	4276.7	4275.0	4264.9	4275.0
5°	4201.1	4206.1	4207.8	4229.6	4243.1	4246.5	4241.4	4233.0	4222.9	4212.8	4217.8
7.5°	4078.3	4091.8	4093.4	4123.7	4145.6	4174.2	4175.8	4177.5	4172.5	4165.8	4175.8
10°	4001.0	4004.3	4002.7	4024.5	4041.4	4073.3	4091.8	4123.7	4137.1	4140.5	4147.2
12.5°	3996.0	3992.6	3987.6	3987.6	3982.6	3996.0	4029.6	4074.9	4106.9	4117.0	4125.4
15°	4049.8	4048.0	4031.2	4006.1	3974.1	3964.0	3992.6	4043.0	4085.1	4106.9	4115.3
17.5°	4170.8	4160.6	4133.8	4076.7	4007.7	3980.8	3984.2	4026.2	4074.9	4103.6	4112.0
20°	4392.7	4392.7	4335.6	4228.0	4105.2	4041.4	4011.1	4036.3	4083.4	4122.1	4133.8
22.5°	4776.0	4779.3	4683.5	4507.0	4300.2	4164.0	4088.4	4083.4	4138.9	4182.5	4196.0
25°	5318.9	5305.5	5171.0	4918.9	4604.5	4379.3	4248.1	4217.8	4264.9	4313.7	4330.5
27.5°	5951.0	5902.3	5742.6	5438.3	5031.5	4702.0	4500.3	4451.6	4496.9	4552.4	4569.2
30°	6576.4	6526.0	6336.1	6003.2	5550.9	5134.1	4844.9	4765.9	4829.8	4908.7	4918.9
32.5°	7201.8	7201.8	6989.9	6601.6	6109.1	5650.2	5303.8	5209.7	5315.6	5411.4	5433.3
35°	7949.9	7953.2	7748.1	7280.8	6751.3	6265.5	5883.8	5814.9	5974.5	6041.9	6093.9
37.5°	8869.4	8887.9	8624.0	8059.1	7479.2	6968.1	6514.3	6420.0	6579.8	6763.0	6931.1
40°	9863.0	9886.5	9595.7	8899.7	8319.8	7785.2	7294.3	7124.4	7390.1	7739.7	7956.6
42.5°	10811.1	10932.2	10651.4	9935.2	9311.5	8758.5	8260.8	8013.8	8346.6	8874.5	9062.7
45°	12181.2	12268.6	11779.4	11130.5	10543.8	9925.2	9266.2	9005.5	9471.3	10136.9	10175.6
47.5°	13094.0	13028.4	12779.6	12376.2	12004.6	11426.4	10434.5	10148.7	10767.4	11550.8	11333.9
50°	13579.9	13600.0	13566.4	13589.9	13603.4	13240.3	11866.8	11475.2	12213.1	13159.5	12660.2
52.5°	14033.8	13899.2	14010.2	14561.6	15227.3	15092.8	13425.2	13016.6	13763.1	14944.9	14062.3
55°	14023.6	13818.5	14179.9	15153.4	16597.4	16752.0	15175.2	14704.5	15402.2	16859.7	15548.4
57.5°	13527.7	13537.8	14094.2	15368.5	17552.3	18312.1	17205.9	16499.9	17140.4	18799.6	16905.1
60°	12845.2	12937.7	13739.6	15333.2	18317.2	19591.5	19697.3	18434.8	18843.4	20563.1	18028.0
62.5°	11744.1	11841.6	12947.8	14966.7	18201.2	20823.7	21950.0	20630.4	20623.6	21632.2	18357.5
65°	10007.5	9979.0	11140.5	13596.7	17227.8	21734.8	24187.5	22528.2	21965.1	21649.1	17695.1
67.5°	7380.0	7252.2	8249.1	10355.5	14319.5	20714.3	25503.8	23516.7	22422.4	20225.2	15671.1
70°	3829.5	3701.8	4508.7	6046.9	9417.5	16167.0	24046.3	23005.8	21412.0	16953.8	12277.0
72.5°	1637.3	1615.5	1943.3	2652.7	4555.7	9325.0	18855.1	19912.6	18372.6	12631.7	8440.8
75°	1101.1	1094.4	1217.1	1445.7	2049.3	3784.1	11799.5	14134.6	13442.0	7832.2	4747.4
77.5°	864.1	855.7	927.9	1038.9	1328.1	1492.8	5236.6	7588.5	7023.6	3409.3	2077.8
80°	675.8	669.1	714.4	775.0	954.8	941.4	1723.2	3019.2	2336.7	1306.2	1010.4
82.5°	532.9	532.9	569.9	571.5	677.5	642.2	899.4	1329.7	1166.7	761.5	618.7
85°	487.5	487.5	526.2	427.0	442.1	405.2	558.1	788.4	739.7	312.7	268.9
87.5°	245.4	238.8	442.1	378.3	240.4	215.2	272.3	381.6	410.2	173.2	134.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4291.8	4291.8	4291.8	4291.8	4291.8	4291.8	4291.8	4291.8	4291.8	4291.8
2.5°	4271.6	4270.0	4273.4	4275.0	4288.4	4306.9	4315.3	4327.1	4333.8	4330.5
5°	4221.2	4224.6	4238.0	4248.1	4271.6	4301.9	4318.7	4332.2	4344.0	4338.8
7.5°	4179.2	4187.6	4207.8	4216.2	4229.6	4238.0	4236.3	4241.4	4251.5	4239.7
10°	4155.6	4165.8	4180.9	4169.1	4137.1	4091.8	4049.8	4027.9	4034.6	4026.2
12.5°	4132.1	4145.6	4133.8	4078.3	3989.2	3930.4	3898.5	3901.8	3917.0	3920.3
15°	4118.7	4123.7	4073.3	3969.0	3878.3	3869.8	3886.7	3883.3	3885.0	3885.0
17.5°	4118.7	4105.2	4011.1	3906.9	3868.2	3853.0	3801.0	3735.4	3706.8	3696.7
20°	4140.5	4105.2	3990.9	3922.0	3837.9	3708.5	3570.6	3449.6	3395.8	3380.6
22.5°	4206.1	4145.6	4048.0	3928.7	3690.0	3473.1	3254.6	3110.0	3012.5	2995.7
25°	4338.8	4271.6	4160.6	3839.6	3454.6	3145.4	2896.5	2735.2	2637.7	2624.2
27.5°	4570.9	4527.2	4221.2	3642.9	3142.0	2810.8	2580.5	2456.1	2383.8	2378.8
30°	4920.6	4898.7	4190.9	3352.1	2757.0	2486.3	2375.4	2303.1	2249.3	2247.6
32.5°	5478.7	5302.2	4091.8	2997.3	2405.7	2256.0	2210.6	2166.9	2124.9	2124.9
35°	6196.5	5628.3	3903.5	2617.4	2192.2	2128.2	2071.1	2002.2	1946.7	1943.3
37.5°	7040.4	5830.0	3565.6	2311.5	2091.3	2042.5	1958.4	1855.9	1758.5	1741.6
40°	7892.7	5890.6	3089.8	2123.2	2027.4	1956.8	1854.2	1733.2	1639.1	1634.1
42.5°	8674.4	5774.6	2585.5	1993.7	1963.6	1869.3	1761.8	1654.2	1580.3	1578.5
45°	9330.0	5473.6	2161.9	1871.1	1896.2	1790.4	1694.5	1607.2	1550.0	1538.2
47.5°	9947.0	5048.3	1864.3	1741.6	1829.0	1746.7	1666.0	1583.6	1528.1	1519.7
50°	10663.1	4589.4	1655.9	1615.5	1770.2	1731.5	1689.5	1603.8	1511.3	1501.2
52.5°	11530.6	4192.7	1492.8	1504.6	1724.8	1751.7	1750.1	1661.0	1499.5	1486.0
55°	12498.9	3752.2	1370.0	1413.8	1706.3	1788.6	1765.1	1714.7	1509.6	1489.4
57.5°	13452.1	3237.7	1284.3	1344.9	1679.4	1785.4	1692.9	1620.6	1533.2	1504.6
60°	14166.5	2546.8	1218.7	1284.3	1620.6	1729.8	1613.8	1518.1	1528.1	1506.3
62.5°	14213.6	1968.6	1139.8	1232.2	1531.5	1674.4	1561.7	1472.6	1550.0	1529.8
65°	13378.2	1487.8	1064.2	1170.1	1435.6	1639.1	1511.3	1447.4	1595.4	1573.5
67.5°	11263.3	1197.0	1000.2	1106.1	1339.9	1565.1	1465.9	1423.8	1635.7	1597.0
70°	8131.4	1020.4	938.0	1028.8	1254.1	1481.0	1425.6	1381.9	1526.4	1465.9
72.5°	5006.3	884.2	867.5	926.3	1188.6	1393.7	1365.0	1302.8	1375.2	1326.4
75°	2499.8	766.6	788.4	825.4	1096.1	1294.4	1264.2	1202.0	1212.1	1202.0
77.5°	1197.0	655.6	696.0	724.6	976.7	1181.8	1149.9	1086.0	1074.2	1075.9
80°	758.2	548.0	586.7	606.9	872.5	1050.7	1018.8	954.8	1089.3	1010.4
82.5°	474.0	445.5	455.6	492.6	759.8	914.5	872.5	815.3	981.7	776.6
85°	262.3	311.0	324.5	356.4	585.0	764.9	722.9	650.6	583.4	573.3
87.5°	156.3	184.9	190.0	213.5	393.3	553.1	489.2	464.0	384.9	383.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)