

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: P193203

Luminaire Tested: **GAN-AF-05-LED-U-T3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193203
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-05-LED-U-T3-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31570.4 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

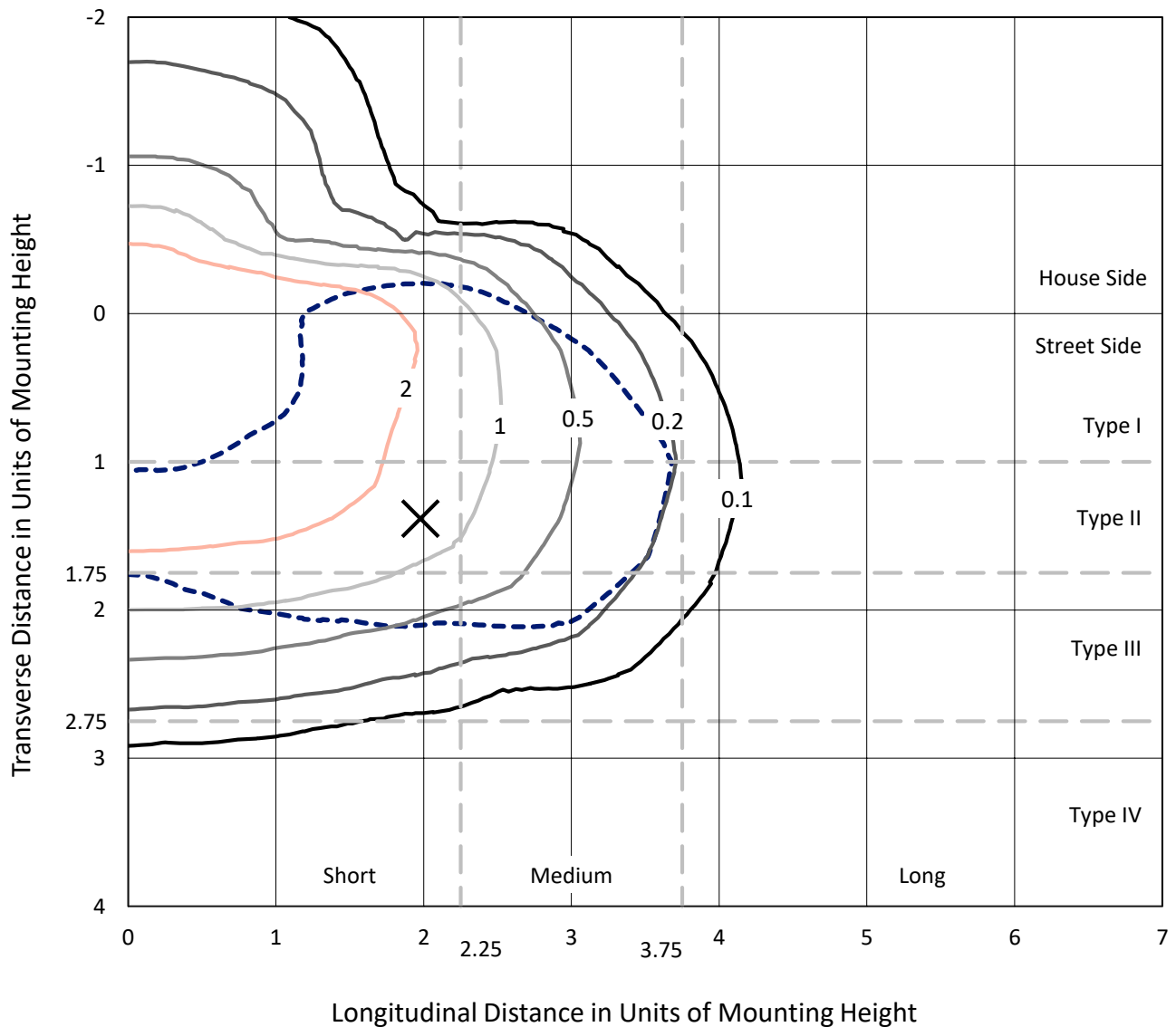
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

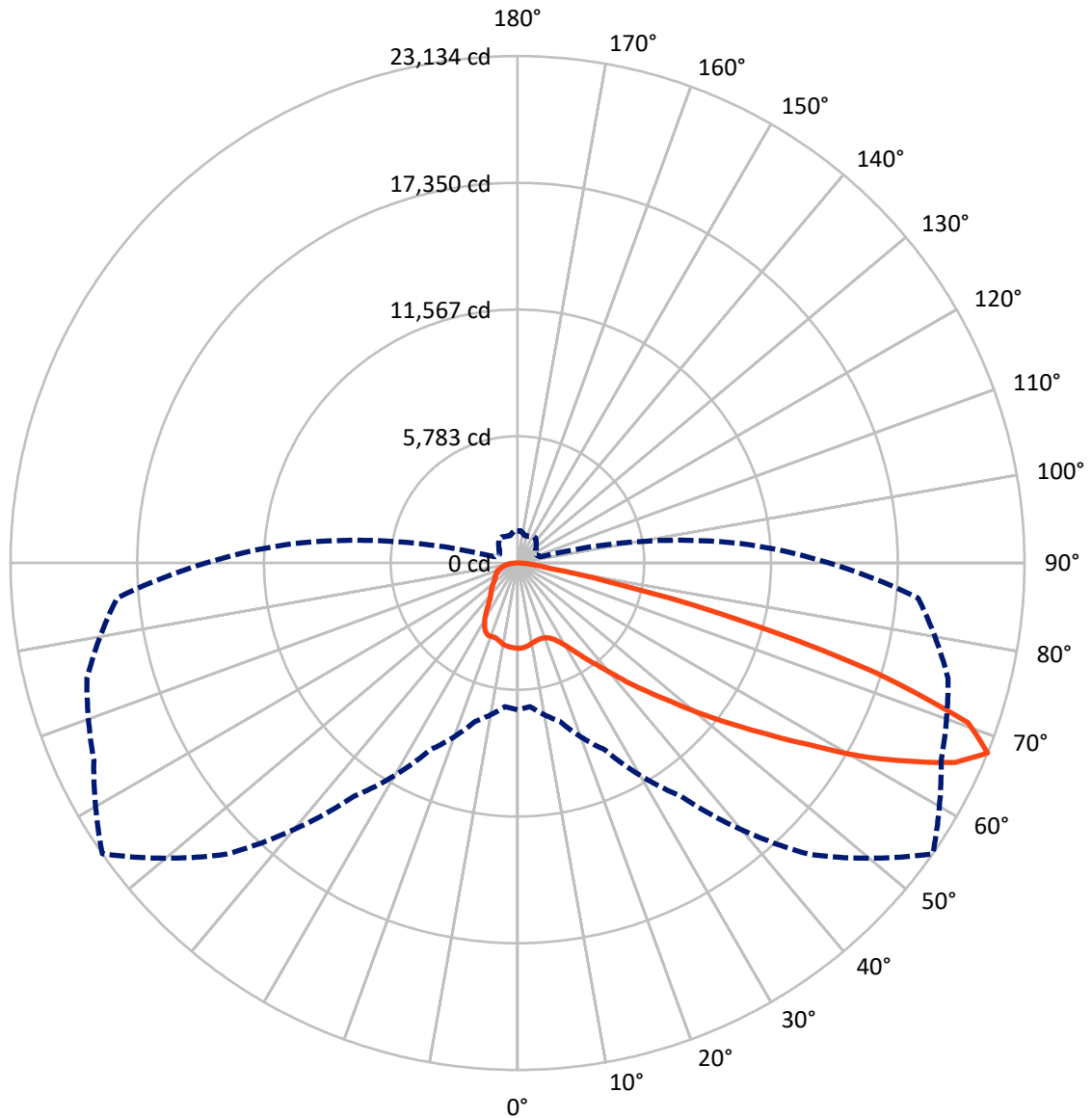
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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	6819.9	0.0	6819.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	24750.6	0.0	24750.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	31570.4	0.0	31570.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.4	1.2
10°-20°	1029.1	3.3
20°-30°	1723.9	5.5
30°-40°	2834.8	9.0
40°-50°	4771.9	15.1
50°-60°	7510.6	23.8
60°-70°	8963.1	28.4
70°-80°	3848.9	12.2
80°-90°	524.8	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°	31570.4	100.0
0°-180°	31570.4	100.0

Coefficient of Utilization



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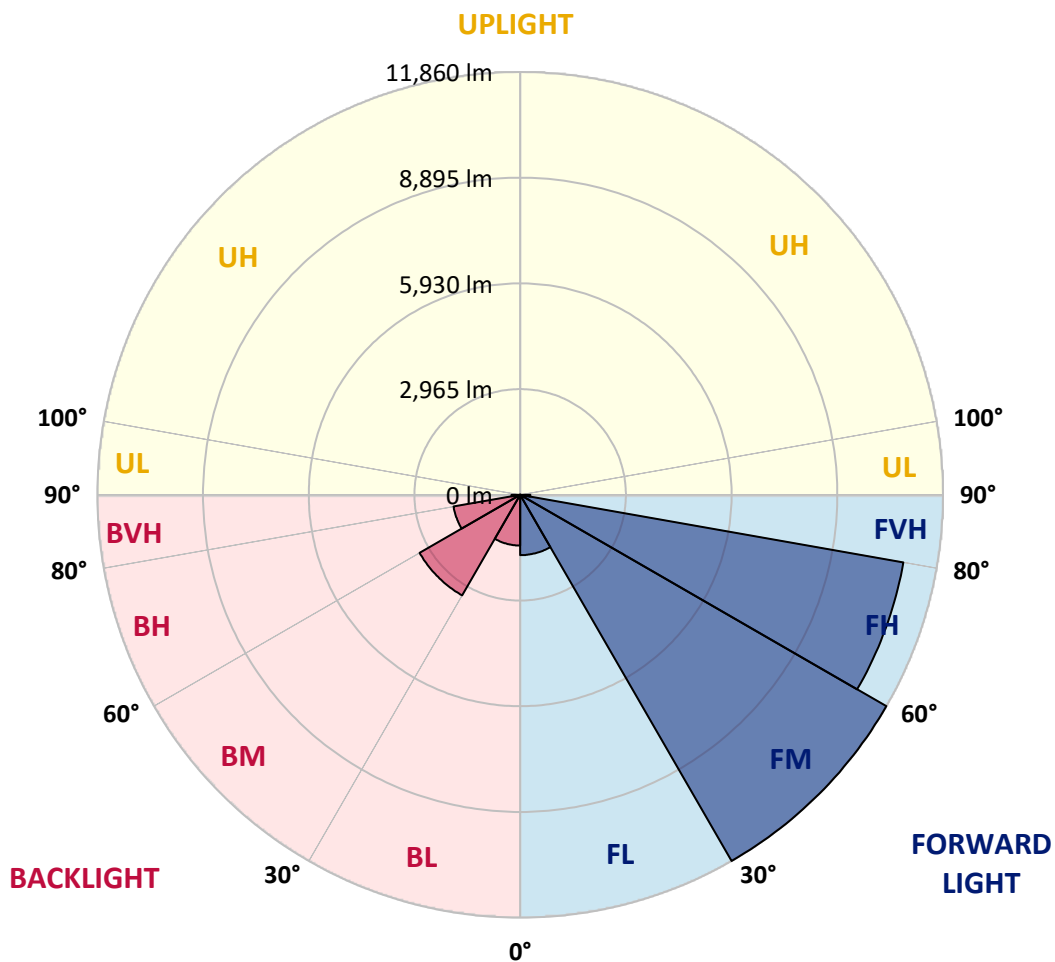
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1692.2	5.4			
FM (30°-60°)	11860.2	37.6			
FH (60°-80°)	10914.1	34.6			G4/12000
FVH (80°-90°)	284.1	0.9			G3/500
BL (0°-30°)	1424.1	4.5	B3/2500		
BM (30°-60°)	3257.1	10.3	B3/5000		
BH (60°-80°)	1897.9	6.0	B3/2500		G3/2500
BVH (80°-90°)	240.7	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3893.0	3893.0	3893.0	3893.0	3893.0	3893.0	3893.0	3893.0	3893.0	3893.0	3893.0
2.5°	3859.5	3861.0	3864.1	3876.2	3886.9	3883.8	3885.4	3879.2	3877.7	3868.6	3877.7
5°	3810.6	3815.3	3816.8	3836.5	3848.7	3851.8	3847.2	3839.6	3830.4	3821.4	3825.9
7.5°	3699.3	3711.5	3713.0	3740.5	3760.2	3786.3	3787.8	3789.3	3784.7	3778.6	3787.8
10°	3629.1	3632.3	3630.6	3650.6	3665.7	3694.7	3711.5	3740.5	3752.7	3755.8	3761.8
12.5°	3624.5	3621.5	3617.0	3617.0	3612.4	3624.5	3655.0	3696.2	3725.2	3734.4	3742.0
15°	3673.4	3671.8	3656.6	3633.8	3604.8	3595.6	3621.5	3667.3	3705.4	3725.2	3732.9
17.5°	3783.2	3774.1	3749.7	3697.8	3635.3	3610.9	3614.0	3652.1	3696.2	3722.3	3729.8
20°	3984.4	3984.4	3932.7	3835.0	3723.8	3665.7	3638.4	3661.2	3703.9	3739.0	3749.7
22.5°	4332.1	4335.2	4248.3	4088.2	3900.5	3777.1	3708.5	3703.9	3754.2	3793.9	3806.0
25°	4824.7	4812.5	4690.5	4461.7	4176.7	3972.2	3853.3	3825.9	3868.6	3912.8	3928.1
27.5°	5398.1	5353.8	5208.9	4932.9	4564.0	4265.1	4082.0	4037.9	4078.9	4129.4	4144.5
30°	5965.2	5919.5	5747.2	5445.3	5035.1	4656.9	4394.6	4323.0	4381.0	4452.7	4461.7
32.5°	6532.5	6532.5	6340.5	5988.2	5541.4	5125.1	4810.9	4725.6	4821.6	4908.6	4928.3
35°	7211.1	7214.2	7028.1	6604.1	6123.9	5683.2	5337.0	5274.5	5419.4	5480.3	5527.7
37.5°	8045.2	8061.9	7822.5	7310.2	6784.1	6320.5	5908.8	5823.4	5968.3	6134.6	6287.0
40°	8946.3	8967.8	8703.9	8072.6	7546.5	7061.7	6616.4	6462.3	6703.3	7020.5	7217.2
42.5°	9806.4	9916.2	9661.6	9011.9	8446.3	7944.6	7493.2	7269.0	7571.0	8049.7	8220.5
45°	11049.2	11128.5	10684.8	10096.1	9564.0	9002.9	8405.1	8168.7	8591.0	9194.9	9230.0
47.5°	11877.1	11817.7	11592.1	11226.1	10889.1	10364.6	9464.8	9205.6	9766.8	10477.3	10280.6
50°	12317.9	12336.1	12305.7	12327.0	12339.2	12009.9	10764.0	10408.7	11078.2	11936.7	11483.8
52.5°	12729.6	12607.7	12708.3	13208.4	13812.2	13690.3	12177.6	11807.0	12484.1	13556.1	12755.5
55°	12720.4	12534.4	12862.2	13745.2	15055.1	15195.3	13764.9	13338.1	13970.9	15292.9	14103.5
57.5°	12270.6	12279.7	12784.4	13940.3	15921.1	16610.3	15607.0	14966.6	15547.5	17052.5	15334.1
60°	11651.5	11735.3	12462.7	13908.2	16614.9	17770.8	17866.8	16721.7	17092.2	18652.2	16352.7
62.5°	10652.7	10741.2	11744.5	13575.9	16509.7	18888.5	19910.2	18713.2	18707.1	19622.0	16651.5
65°	9077.5	9051.6	10105.3	12333.0	15626.8	19715.0	21939.8	20434.8	19923.9	19637.2	16050.7
67.5°	6694.2	6578.3	7482.5	9393.1	12988.8	18789.5	23133.8	21331.3	20338.6	18345.6	14214.8
70°	3473.7	3357.7	4089.7	5485.0	8542.3	14664.7	21811.7	20867.8	19422.3	15378.2	11136.1
72.5°	1485.3	1465.3	1762.8	2406.2	4132.4	8458.5	17102.9	18062.0	16665.4	11457.8	7656.4
75°	998.7	992.7	1103.9	1311.4	1858.8	3432.5	10703.0	12821.0	12192.8	7104.4	4306.2
77.5°	783.8	776.2	841.8	942.4	1204.7	1354.0	4749.9	6883.3	6370.9	3092.5	1884.7
80°	613.0	606.9	648.0	703.0	866.1	854.0	1563.0	2738.7	2119.5	1184.8	916.4
82.5°	483.4	483.4	516.9	518.4	614.5	582.5	815.8	1206.2	1058.2	690.7	561.1
85°	442.2	442.2	477.3	387.4	401.1	367.4	506.3	715.2	671.0	283.6	243.9
87.5°	222.7	216.6	401.1	343.1	218.1	195.1	247.0	346.2	372.0	157.2	122.1
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°	3893.0	3893.0	3893.0	3893.0	3893.0	3893.0	3893.0	3893.0	3893.0	3893.0
2.5°	3874.7	3873.1	3876.2	3877.7	3889.9	3906.7	3914.3	3925.0	3931.1	3928.1
5°	3829.0	3831.9	3844.2	3853.3	3874.7	3902.0	3917.4	3929.6	3940.2	3935.6
7.5°	3790.9	3798.4	3816.8	3824.4	3836.5	3844.2	3842.6	3847.2	3856.5	3845.7
10°	3769.5	3778.6	3792.4	3781.7	3752.7	3711.5	3673.4	3653.6	3659.6	3652.1
12.5°	3748.1	3760.2	3749.7	3699.3	3618.5	3565.1	3536.1	3539.2	3552.9	3556.0
15°	3735.9	3740.5	3694.7	3600.2	3517.8	3510.3	3525.5	3522.4	3523.9	3523.9
17.5°	3735.9	3723.8	3638.4	3543.9	3508.8	3494.9	3447.6	3388.2	3362.4	3353.1
20°	3755.8	3723.8	3620.0	3557.5	3481.2	3363.9	3238.8	3129.0	3080.2	3066.5
22.5°	3815.3	3760.2	3671.8	3563.6	3347.0	3150.4	2952.1	2821.0	2732.6	2717.3
25°	3935.6	3874.7	3774.1	3482.7	3133.5	2853.0	2627.3	2481.0	2392.6	2380.3
27.5°	4146.1	4106.5	3829.0	3304.4	2850.0	2549.6	2340.7	2227.8	2162.2	2157.7
30°	4463.2	4443.5	3801.4	3040.5	2500.7	2255.3	2154.6	2089.0	2040.3	2038.8
32.5°	4969.5	4809.4	3711.5	2718.8	2182.1	2046.3	2005.2	1965.6	1927.5	1927.5
35°	5620.7	5105.2	3540.8	2374.2	1988.4	1930.5	1878.6	1816.1	1765.8	1762.8
37.5°	6386.1	5288.2	3234.3	2096.6	1897.0	1852.7	1776.4	1683.4	1594.9	1579.8
40°	7159.2	5343.1	2802.7	1925.9	1839.0	1774.9	1681.9	1572.1	1486.7	1482.2
42.5°	7868.3	5237.9	2345.2	1808.5	1781.0	1695.7	1598.0	1500.4	1433.4	1431.9
45°	8463.0	4965.0	1960.9	1697.2	1720.1	1624.0	1537.1	1457.7	1405.9	1395.2
47.5°	9022.6	4579.2	1691.2	1579.8	1659.1	1584.4	1511.2	1436.4	1386.1	1378.6
50°	9672.1	4162.9	1502.0	1465.3	1605.7	1570.6	1532.5	1454.7	1370.8	1361.7
52.5°	10459.1	3803.0	1354.0	1364.7	1564.5	1588.9	1587.4	1506.5	1360.2	1347.9
55°	11337.4	3403.5	1242.8	1282.3	1547.7	1622.5	1601.0	1555.5	1369.3	1351.0
57.5°	12202.0	2936.9	1165.0	1219.9	1523.3	1619.4	1535.5	1470.0	1390.7	1364.7
60°	12850.1	2310.2	1105.4	1165.0	1470.0	1569.1	1463.8	1377.0	1386.1	1366.3
62.5°	12892.7	1785.7	1033.8	1117.7	1389.1	1518.8	1416.5	1335.8	1405.9	1387.6
65°	12134.9	1349.5	965.2	1061.4	1302.3	1486.7	1370.8	1312.9	1447.1	1427.3
67.5°	10216.7	1085.7	907.3	1003.3	1215.3	1419.6	1329.6	1291.6	1483.7	1448.7
70°	7375.8	925.7	850.9	933.2	1137.5	1343.5	1293.1	1253.4	1384.6	1329.6
72.5°	4541.1	802.1	786.8	840.2	1078.1	1264.1	1238.2	1181.7	1247.3	1203.2
75°	2267.4	695.3	715.2	748.8	994.3	1174.1	1146.6	1090.3	1099.4	1090.3
77.5°	1085.7	594.7	631.3	657.2	886.0	1072.0	1043.0	985.1	974.4	975.9
80°	687.7	497.1	532.2	550.4	791.4	953.1	924.2	866.1	988.1	916.4
82.5°	430.1	404.0	413.2	446.8	689.2	829.5	791.4	739.5	890.6	704.5
85°	237.8	282.1	294.4	323.3	530.7	693.8	655.7	590.1	529.2	520.0
87.5°	141.8	167.7	172.3	193.6	356.8	501.7	443.7	420.8	349.2	347.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)