

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: P194777

Luminaire Tested: **GAN-AF-09-LED-U-T3-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194777
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-09-LED-U-T3-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35068 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

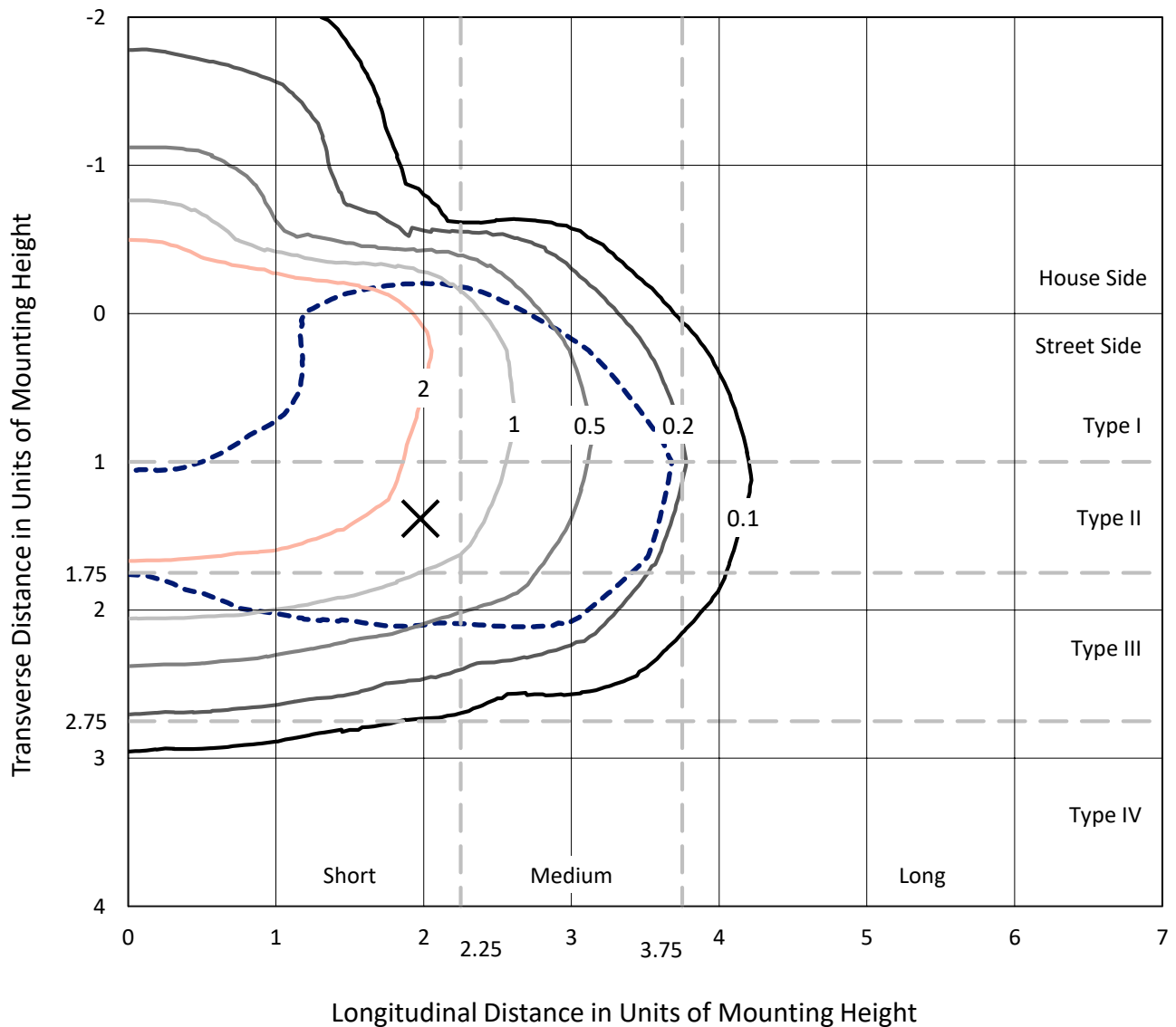
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

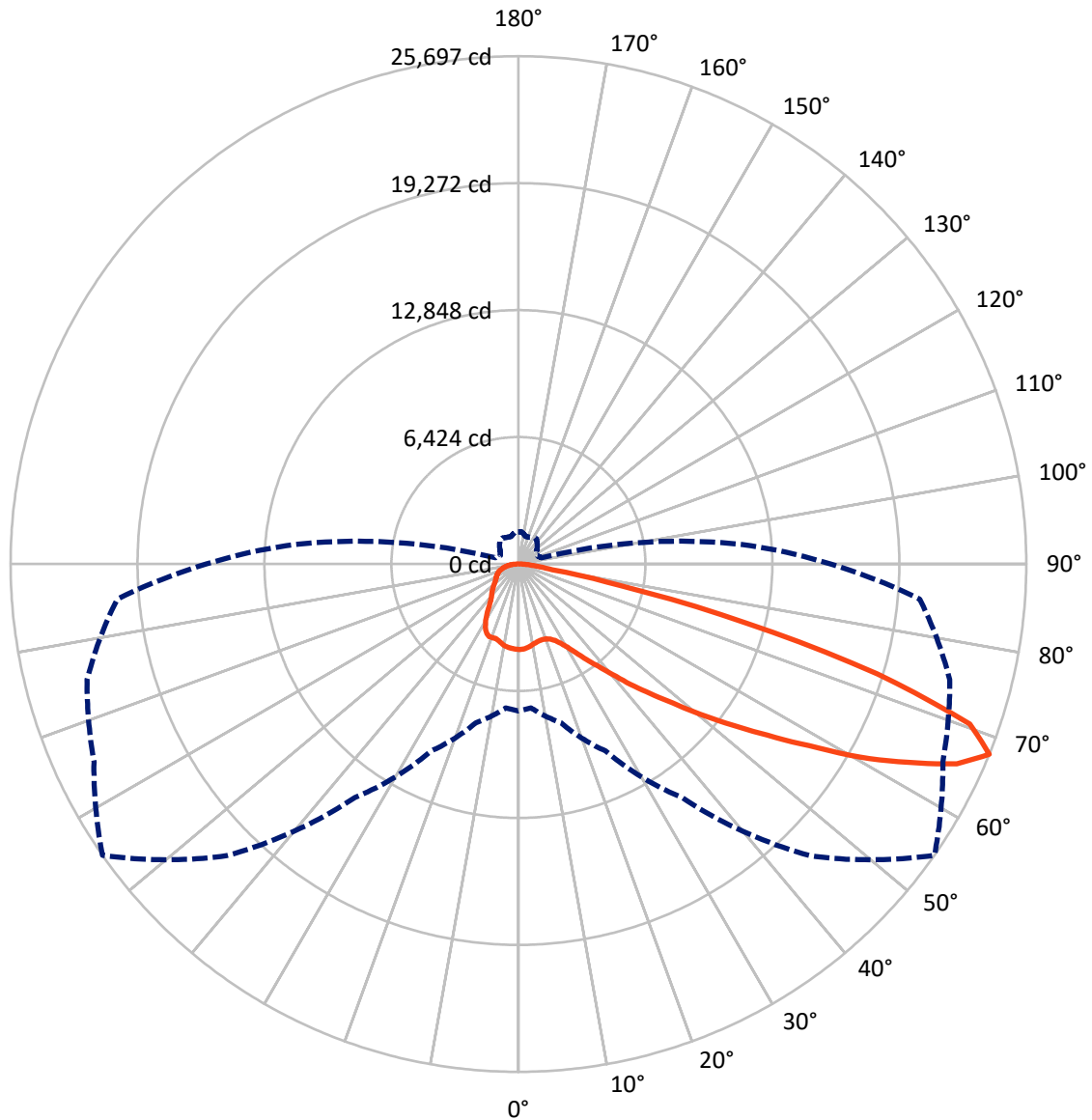
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	7575.4	0.0	7575.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	27492.6	0.0	27492.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	35068.0	0.0	35068.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.6	1.2
10°-20°	1143.1	3.3
20°-30°	1914.9	5.5
30°-40°	3148.9	9.0
40°-50°	5300.5	15.1
50°-60°	8342.7	23.8
60°-70°	9956.1	28.4
70°-80°	4275.3	12.2
80°-90°	582.9	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°	35068.0	100.0
0°-180°	35068.0	100.0



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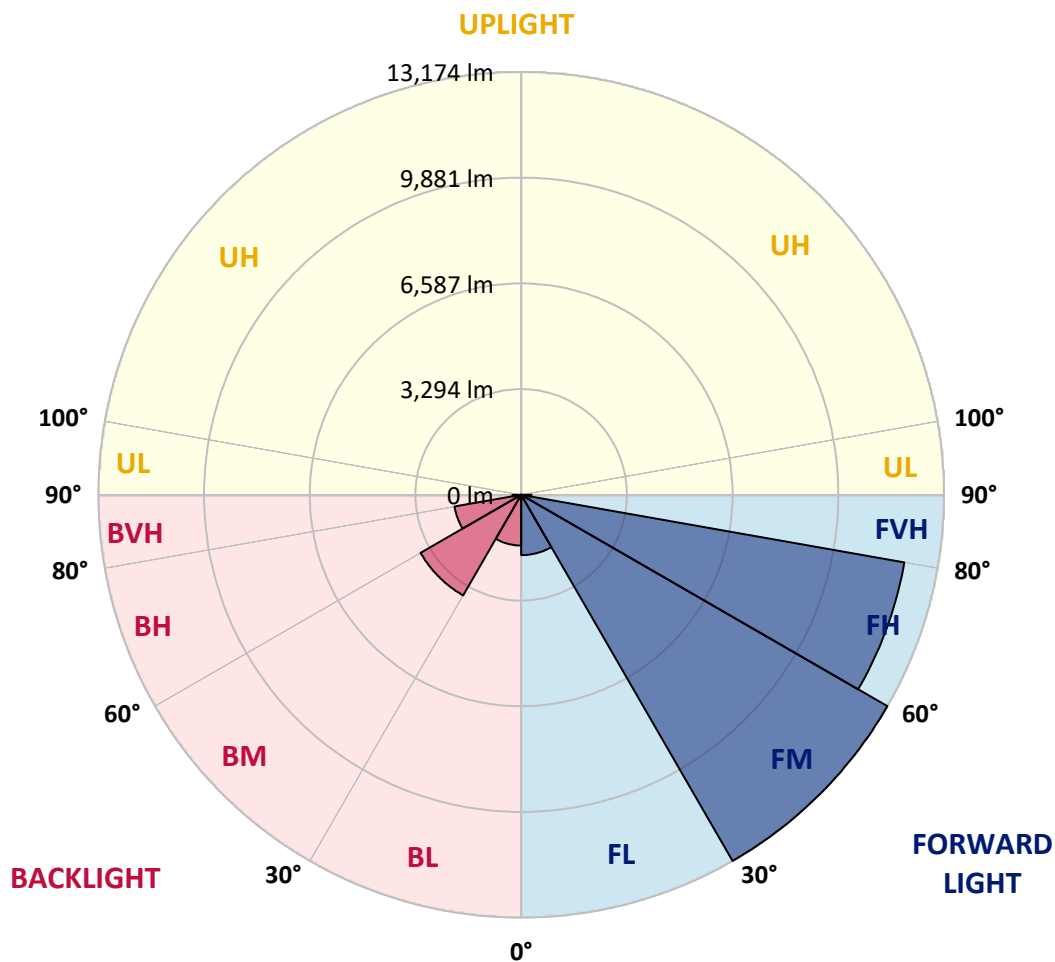
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1879.7	5.4			
FM	(30°-60°)	13174.1	37.6			
FH	(60°-80°)	12123.2	34.6			G5
FVH	(80°-90°)	315.5	0.9			G3/500
BL	(0°-30°)	1581.9	4.5	B3/2500		
BM	(30°-60°)	3618.0	10.3	B3/5000		
BH	(60°-80°)	2108.2	6.0	B3/2500		G3/2500
BVH	(80°-90°)	267.4	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°	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3
2.5°	4287.0	4288.7	4292.1	4305.6	4317.5	4314.1	4315.8	4309.0	4307.3	4297.2	4307.3
5°	4232.8	4237.9	4239.6	4261.6	4275.1	4278.5	4273.5	4265.0	4254.8	4244.7	4249.7
7.5°	4109.2	4122.7	4124.4	4154.9	4176.9	4205.7	4207.4	4209.1	4204.0	4197.2	4207.4
10°	4031.2	4034.6	4032.9	4055.0	4071.9	4104.1	4122.7	4154.9	4168.4	4171.8	4178.6
12.5°	4026.2	4022.8	4017.7	4017.7	4012.6	4026.2	4060.0	4105.8	4137.9	4148.1	4156.6
15°	4080.4	4078.7	4061.7	4036.3	4004.1	3994.0	4022.8	4073.6	4115.9	4137.9	4146.4
17.5°	4202.3	4192.2	4165.1	4107.5	4038.0	4010.9	4014.3	4056.6	4105.8	4134.6	4143.0
20°	4425.9	4425.9	4368.3	4259.9	4136.3	4071.9	4041.4	4066.8	4114.2	4153.2	4165.1
22.5°	4812.1	4815.5	4718.9	4541.1	4332.7	4195.5	4119.3	4114.2	4170.1	4214.2	4227.7
25°	5359.2	5345.6	5210.1	4956.1	4639.3	4412.3	4280.2	4249.7	4297.2	4346.3	4363.2
27.5°	5996.0	5946.9	5786.0	5479.4	5069.5	4737.6	4534.3	4485.2	4530.9	4586.8	4603.7
30°	6626.1	6575.3	6383.9	6048.6	5592.9	5172.9	4881.5	4801.9	4866.3	4945.9	4956.1
32.5°	7256.2	7256.2	7042.8	6651.5	6155.3	5692.9	5343.9	5249.1	5355.8	5452.3	5474.4
35°	8010.0	8013.4	7806.7	7335.8	6802.3	6312.8	5928.3	5858.8	6019.8	6087.5	6140.0
37.5°	8936.5	8955.1	8689.2	8120.1	7535.7	7020.8	6563.5	6468.6	6629.5	6814.2	6983.5
40°	9937.5	9961.2	9668.2	8967.0	8382.6	7844.0	7349.4	7178.3	7445.9	7798.2	8016.7
42.5°	10892.8	11014.8	10731.9	10010.3	9381.9	8824.7	8323.3	8074.3	8409.7	8941.6	9131.3
45°	12273.3	12361.3	11868.4	11214.6	10623.5	10000.2	9336.2	9073.7	9542.9	10213.6	10252.6
47.5°	13193.0	13126.9	12876.3	12469.7	12095.4	11512.7	10513.4	10225.5	10848.8	11638.1	11419.6
50°	13682.5	13702.8	13669.0	13692.7	13706.2	13340.4	11956.5	11561.9	12305.4	13259.1	12756.0
52.5°	14139.8	14004.3	14116.1	14671.7	15342.4	15206.9	13526.7	13115.1	13867.1	15057.9	14168.6
55°	14129.7	13923.0	14287.2	15267.9	16722.9	16878.7	15289.9	14815.7	15518.6	16987.1	15665.9
57.5°	13630.0	13640.2	14200.8	15484.7	17684.9	18450.5	17336.0	16624.6	17270.0	18941.7	17032.8
60°	12942.3	13035.5	13843.4	15449.1	18455.6	19739.5	19846.2	18574.2	18985.8	20718.5	18164.3
62.5°	11832.9	11931.1	13045.6	15079.9	18338.8	20981.1	22115.9	20786.3	20779.5	21795.8	18496.3
65°	10083.2	10054.4	11224.8	13699.4	17358.0	21899.1	24370.4	22698.6	22131.2	21812.7	17828.9
67.5°	7435.8	7307.0	8311.5	10433.8	14427.8	20871.0	25696.6	23694.5	22591.9	20378.1	15789.6
70°	3858.5	3729.7	4542.8	6092.6	9488.7	16289.3	24228.1	23179.6	21573.9	17082.0	12369.8
72.5°	1649.8	1627.7	1958.0	2672.8	4590.2	9395.5	18997.6	20063.0	18511.5	12727.2	8504.6
75°	1109.4	1102.7	1226.3	1456.7	2064.7	3812.7	11888.8	14241.5	13543.6	7891.4	4783.3
77.5°	870.6	862.1	935.0	1046.8	1338.1	1504.1	5276.2	7645.8	7076.7	3435.0	2093.5
80°	680.9	674.1	719.9	780.8	962.1	948.5	1736.1	3042.1	2354.4	1316.1	1018.0
82.5°	536.9	536.9	574.2	575.9	682.6	647.0	906.2	1339.8	1175.5	767.3	623.3
85°	491.2	491.2	530.2	430.2	445.5	408.2	562.3	794.4	745.3	315.0	271.0
87.5°	247.3	240.5	445.5	381.1	242.2	216.8	274.4	384.5	413.3	174.5	135.5
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°	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3
2.5°	4303.9	4302.2	4305.6	4307.3	4320.9	4339.5	4348.0	4359.8	4366.6	4363.2
5°	4253.1	4256.5	4270.1	4280.2	4303.9	4334.4	4351.4	4364.9	4376.8	4371.7
7.5°	4210.8	4219.3	4239.6	4248.0	4261.6	4270.1	4268.4	4273.5	4283.6	4271.8
10°	4187.1	4197.2	4212.5	4200.6	4168.4	4122.7	4080.4	4058.3	4065.1	4056.6
12.5°	4163.4	4176.9	4165.1	4109.2	4019.4	3960.1	3927.9	3931.3	3946.6	3949.9
15°	4149.8	4154.9	4104.1	3999.1	3907.6	3899.1	3916.1	3912.7	3914.4	3914.4
17.5°	4149.8	4136.3	4041.4	3936.4	3897.4	3882.2	3829.7	3763.6	3734.8	3724.7
20°	4171.8	4136.3	4021.1	3951.6	3866.9	3736.5	3597.6	3475.7	3421.5	3406.2
22.5°	4237.9	4176.9	4078.7	3958.4	3717.9	3499.4	3279.2	3133.5	3035.3	3018.3
25°	4371.7	4303.9	4192.2	3868.6	3480.8	3169.1	2918.4	2755.8	2657.6	2644.0
27.5°	4605.4	4561.4	4253.1	3670.5	3165.7	2832.0	2600.0	2474.6	2401.8	2396.7
30°	4957.7	4935.7	4222.6	3377.4	2777.8	2505.1	2393.3	2320.5	2266.3	2264.6
32.5°	5520.1	5342.2	4122.7	3020.0	2423.8	2273.1	2227.3	2183.3	2141.0	2141.0
35°	6243.3	5670.8	3933.0	2637.2	2208.7	2144.3	2086.8	2017.3	1961.4	1958.0
37.5°	7093.6	5874.1	3592.5	2329.0	2107.1	2058.0	1973.3	1870.0	1771.7	1754.8
40°	7952.4	5935.1	3113.2	2139.3	2042.7	1971.6	1868.3	1746.3	1651.5	1646.4
42.5°	8740.0	5818.2	2605.1	2008.8	1978.4	1883.5	1775.1	1666.7	1592.2	1590.5
45°	9400.6	5515.0	2178.2	1885.2	1910.6	1803.9	1707.3	1619.3	1561.7	1549.8
47.5°	10022.2	5086.5	1878.4	1754.8	1842.9	1759.9	1678.6	1595.6	1539.7	1531.2
50°	10743.8	4624.1	1668.4	1627.7	1783.6	1744.6	1702.3	1615.9	1522.7	1512.6
52.5°	11617.8	4224.3	1504.1	1515.9	1737.8	1764.9	1763.2	1673.5	1510.9	1497.3
55°	12593.4	3780.6	1380.4	1424.5	1719.2	1802.2	1778.5	1727.7	1521.0	1500.7
57.5°	13553.8	3262.3	1294.1	1355.0	1692.1	1798.8	1705.7	1632.8	1544.7	1515.9
60°	14273.6	2566.1	1228.0	1294.1	1632.8	1742.9	1626.0	1529.5	1539.7	1517.6
62.5°	14321.1	1983.4	1148.4	1241.6	1543.1	1687.0	1573.5	1483.8	1561.7	1541.4
65°	13479.2	1499.0	1072.2	1178.9	1446.5	1651.5	1522.7	1458.4	1607.4	1585.4
67.5°	11348.4	1206.0	1007.8	1114.5	1350.0	1576.9	1477.0	1434.6	1648.1	1609.1
70°	8192.9	1028.1	945.1	1036.6	1263.6	1492.2	1436.3	1392.3	1538.0	1477.0
72.5°	5044.1	890.9	874.0	933.3	1197.5	1404.2	1375.4	1312.7	1385.5	1336.4
75°	2518.7	772.4	794.4	831.7	1104.4	1304.2	1273.7	1211.1	1221.2	1211.1
77.5°	1206.0	660.6	701.2	730.0	984.1	1190.7	1158.6	1094.2	1082.3	1084.0
80°	763.9	552.2	591.1	611.5	879.1	1058.6	1026.4	962.1	1097.6	1018.0
82.5°	477.7	448.9	459.0	496.3	765.6	921.4	879.1	821.5	989.2	782.5
85°	264.2	313.4	326.9	359.1	589.4	770.7	728.3	655.5	587.7	577.6
87.5°	157.5	186.3	191.4	215.1	396.3	557.3	492.9	467.5	387.9	386.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)