

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: McGRAW-EDISON

Report Number: P299126

Luminaire Tested: **GLNA-AF-06-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299126
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: MCGRAW-EDISON
Catalog Number: GLNA-AF-06-LED-E1-T3-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34325.4 lumens
Efficiency: N/A
Efficacy: 103.1 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

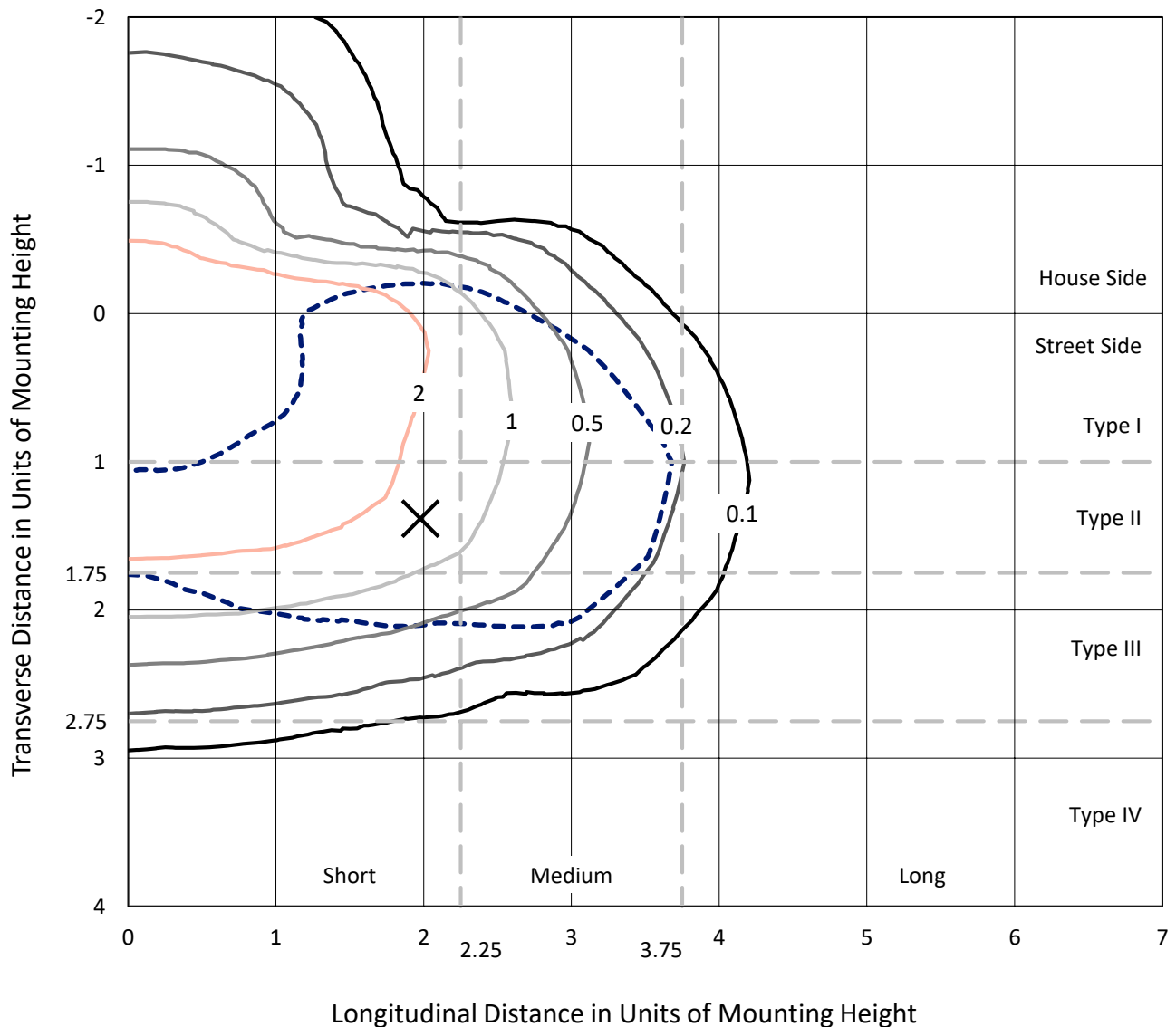
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

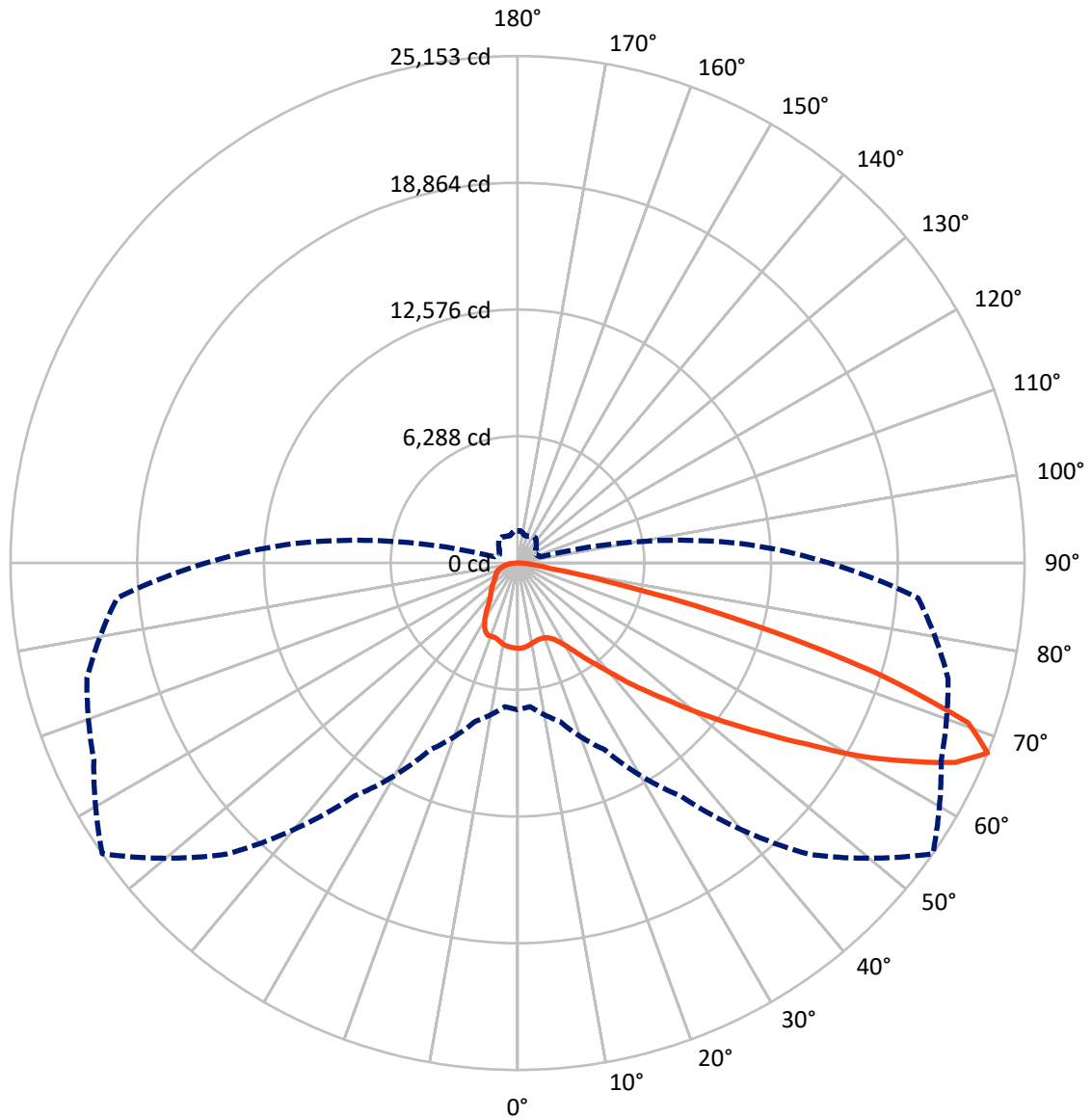
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 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	7415.0	0.0	7415.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	26910.4	0.0	26910.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	34325.4	0.0	34325.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.1	1.2
10°-20°	1118.9	3.3
20°-30°	1874.3	5.5
30°-40°	3082.2	9.0
40°-50°	5188.3	15.1
50°-60°	8166.0	23.8
60°-70°	9745.2	28.4
70°-80°	4184.8	12.2
80°-90°	570.6	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°	34325.4	100.0
0°-180°	34325.4	100.0



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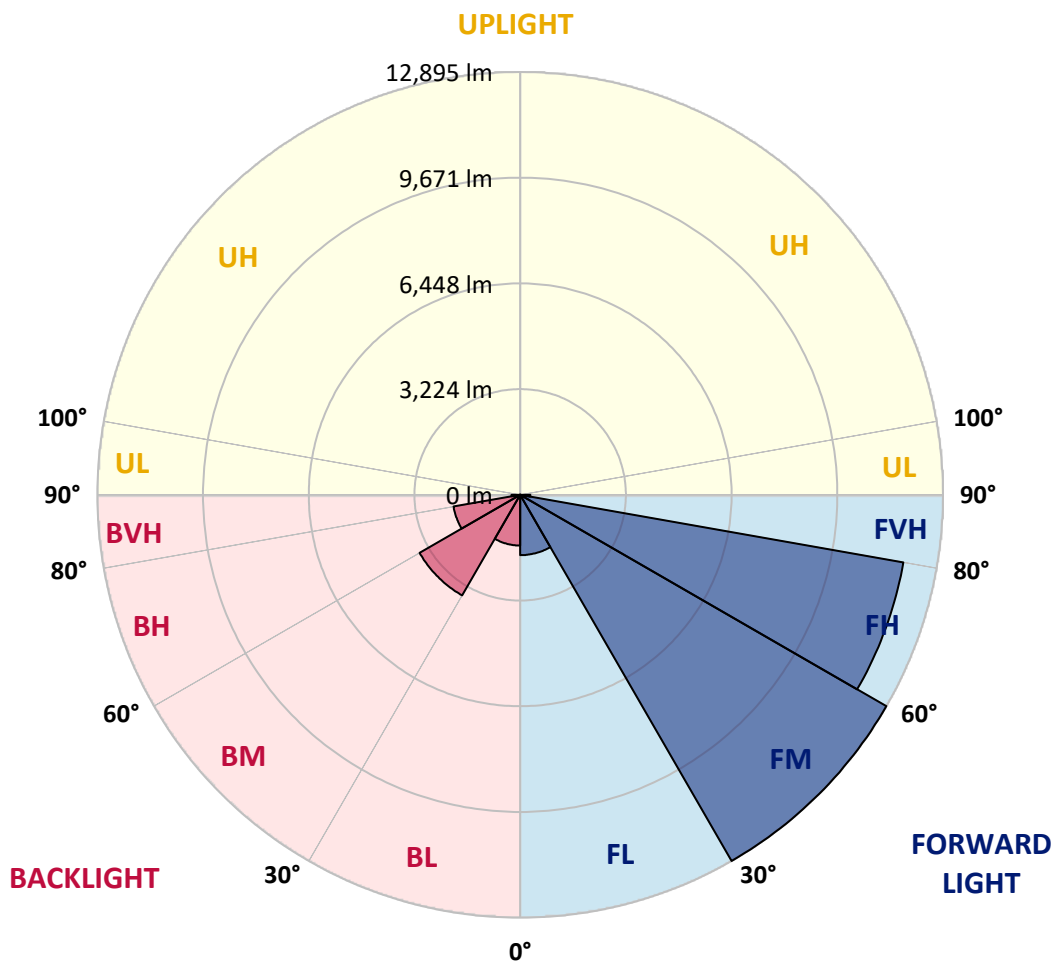
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1839.9	5.4			
FM	(30°-60°)	12895.2	37.6			
FH	(60°-80°)	11866.5	34.6			G4/12000
FVH	(80°-90°)	308.8	0.9			G3/500
BL	(0°-30°)	1548.4	4.5	B3/2500		
BM	(30°-60°)	3541.3	10.3	B3/5000		
BH	(60°-80°)	2063.6	6.0	B3/2500		G3/2500
BVH	(80°-90°)	261.7	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°	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7
2.5°	4196.2	4197.9	4201.2	4214.5	4226.1	4222.7	4224.4	4217.8	4216.1	4206.2	4216.1
5°	4143.2	4148.1	4149.8	4171.4	4184.6	4187.9	4183.0	4174.7	4164.7	4154.8	4159.7
7.5°	4022.1	4035.4	4037.1	4066.9	4088.5	4116.6	4118.3	4120.0	4115.0	4108.4	4118.3
10°	3945.9	3949.2	3947.5	3969.1	3985.7	4017.2	4035.4	4066.9	4080.2	4083.5	4090.1
12.5°	3940.9	3937.6	3932.6	3932.6	3927.6	3940.9	3974.1	4018.8	4050.3	4060.3	4068.6
15°	3994.0	3992.3	3975.7	3950.8	3919.3	3909.4	3937.6	3987.3	4028.8	4050.3	4058.6
17.5°	4113.3	4103.4	4076.9	4020.5	3952.5	3926.0	3929.3	3970.7	4018.8	4047.0	4055.3
20°	4332.2	4332.2	4275.8	4169.7	4048.7	3985.7	3955.8	3980.7	4027.1	4065.2	4076.9
22.5°	4710.2	4713.5	4619.0	4444.9	4241.0	4106.7	4032.1	4027.1	4081.8	4124.9	4138.2
25°	5245.7	5232.4	5099.8	4851.1	4541.1	4318.9	4189.6	4159.7	4206.2	4254.2	4270.8
27.5°	5869.1	5821.0	5663.5	5363.4	4962.2	4637.2	4438.3	4390.2	4435.0	4489.7	4506.3
30°	6485.8	6436.1	6248.7	5920.5	5474.5	5063.3	4778.2	4700.2	4763.2	4841.2	4851.1
32.5°	7102.6	7102.6	6893.7	6510.7	6024.9	5572.3	5230.8	5137.9	5242.4	5336.9	5358.4
35°	7840.4	7843.7	7641.4	7180.5	6658.2	6179.1	5802.8	5734.8	5892.3	5958.6	6010.0
37.5°	8747.2	8765.5	8505.2	7948.1	7376.1	6872.1	6424.5	6331.6	6489.1	6669.9	6835.6
40°	9727.1	9750.3	9463.5	8777.1	8205.1	7677.9	7193.8	7026.3	7288.3	7633.1	7847.0
42.5°	10662.2	10781.5	10504.6	9798.4	9183.3	8637.8	8147.1	7903.4	8231.6	8752.2	8937.9
45°	12013.4	12099.6	11617.1	10977.2	10398.5	9788.4	9138.5	8881.5	9340.8	9997.3	10035.5
47.5°	12913.6	12849.0	12603.6	12205.7	11839.3	11269.0	10290.8	10008.9	10619.0	11391.6	11177.8
50°	13392.8	13412.7	13379.5	13402.7	13416.0	13057.9	11703.3	11317.0	12044.9	12978.3	12485.9
52.5°	13840.4	13707.8	13817.2	14361.0	15017.5	14884.9	13240.2	12837.4	13573.5	14739.0	13868.6
55°	13830.5	13628.2	13984.6	14944.6	16368.7	16521.3	14966.1	14501.9	15190.0	16627.4	15334.2
57.5°	13341.4	13351.3	13900.1	15156.8	17310.5	18059.8	16968.9	16272.6	16904.3	18540.6	16672.1
60°	12668.2	12759.4	13550.3	15122.0	18064.8	19321.5	19426.0	18180.9	18583.7	20279.8	17779.6
62.5°	11582.3	11678.5	12769.4	14760.6	17950.4	20536.8	21647.6	20346.1	20339.5	21334.2	18104.6
65°	9869.7	9841.5	10987.1	13409.3	16990.5	21435.4	23854.3	22217.9	21662.5	21350.8	17451.4
67.5°	7278.3	7152.3	8135.5	10212.9	14122.3	20429.0	25152.5	23192.8	22113.5	19946.6	15455.2
70°	3776.8	3650.8	4446.6	5963.6	9287.7	15944.3	23715.0	22688.8	21117.1	16720.2	12107.9
72.5°	1614.8	1593.3	1916.6	2616.2	4493.0	9196.5	18595.3	19638.2	18119.5	12457.7	8324.5
75°	1085.9	1079.3	1200.3	1425.8	2021.0	3732.0	11637.0	13939.9	13256.8	7724.3	4682.0
77.5°	852.2	843.9	915.2	1024.6	1309.8	1472.2	5164.5	7483.9	6926.8	3362.3	2049.2
80°	666.5	659.9	704.6	764.3	941.7	928.4	1699.4	2977.6	2304.5	1288.2	996.4
82.5°	525.6	525.6	562.0	563.7	668.1	633.3	887.0	1311.4	1150.6	751.0	610.1
85°	480.8	480.8	518.9	421.1	436.0	399.6	550.4	777.6	729.5	308.4	265.3
87.5°	242.1	235.4	436.0	373.0	237.1	212.2	268.6	376.4	404.5	170.8	132.6
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°	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7
2.5°	4212.8	4211.1	4214.5	4216.1	4229.4	4247.6	4255.9	4267.5	4274.1	4270.8
5°	4163.1	4166.4	4179.6	4189.6	4212.8	4242.6	4259.2	4272.5	4284.1	4279.1
7.5°	4121.6	4129.9	4149.8	4158.1	4171.4	4179.6	4178.0	4183.0	4192.9	4181.3
10°	4098.4	4108.4	4123.3	4111.7	4080.2	4035.4	3994.0	3972.4	3979.0	3970.7
12.5°	4075.2	4088.5	4076.9	4022.1	3934.3	3876.2	3844.7	3848.1	3863.0	3866.3
15°	4061.9	4066.9	4017.2	3914.4	3824.8	3816.6	3833.1	3829.8	3831.5	3831.5
17.5°	4061.9	4048.7	3955.8	3853.0	3814.9	3800.0	3748.6	3683.9	3655.7	3645.8
20°	4083.5	4048.7	3935.9	3868.0	3785.1	3657.4	3521.4	3402.1	3349.0	3334.1
22.5°	4148.1	4088.5	3992.3	3874.6	3639.2	3425.3	3209.8	3067.2	2971.0	2954.4
25°	4279.1	4212.8	4103.4	3786.7	3407.0	3102.0	2856.6	2697.5	2601.3	2588.0
27.5°	4507.9	4464.8	4163.1	3592.7	3098.7	2772.1	2544.9	2422.2	2350.9	2346.0
30°	4852.8	4831.2	4133.2	3305.9	2719.0	2452.1	2342.7	2271.4	2218.3	2216.7
32.5°	5403.2	5229.1	4035.4	2956.1	2372.5	2224.9	2180.2	2137.1	2095.6	2095.6
35°	6111.1	5550.8	3849.7	2581.4	2161.9	2098.9	2042.6	1974.6	1919.9	1916.6
37.5°	6943.4	5749.7	3516.5	2279.7	2062.5	2014.4	1931.5	1830.4	1734.2	1717.6
40°	7784.0	5809.4	3047.3	2094.0	1999.5	1929.8	1828.7	1709.3	1616.5	1611.5
42.5°	8554.9	5695.0	2549.9	1966.3	1936.5	1843.6	1737.5	1631.4	1558.5	1556.8
45°	9201.5	5398.2	2132.1	1845.3	1870.1	1765.7	1671.2	1585.0	1528.6	1517.0
47.5°	9810.0	4978.8	1838.6	1717.6	1803.8	1722.6	1643.0	1561.8	1507.1	1498.8
50°	10516.3	4526.1	1633.1	1593.3	1745.8	1707.7	1666.2	1581.7	1490.5	1480.5
52.5°	11371.7	4134.9	1472.2	1483.8	1701.0	1727.6	1725.9	1638.0	1478.9	1465.6
55°	12326.7	3700.5	1351.2	1394.3	1682.8	1764.0	1740.8	1691.1	1488.8	1468.9
57.5°	13266.8	3193.2	1266.7	1326.3	1656.3	1760.7	1669.5	1598.2	1512.0	1483.8
60°	13971.4	2511.8	1202.0	1266.7	1598.2	1706.0	1591.6	1497.1	1507.1	1485.5
62.5°	14017.8	1941.4	1124.1	1215.3	1510.4	1651.3	1540.2	1452.3	1528.6	1508.7
65°	13193.8	1467.3	1049.5	1153.9	1415.9	1616.5	1490.5	1427.5	1573.4	1551.8
67.5°	11108.1	1180.4	986.5	1090.9	1321.4	1543.5	1445.7	1404.3	1613.2	1575.0
70°	8019.4	1006.4	925.1	1014.7	1236.8	1460.6	1405.9	1362.8	1505.4	1445.7
72.5°	4937.3	872.1	855.5	913.5	1172.2	1374.4	1346.2	1284.9	1356.2	1308.1
75°	2465.3	756.0	777.6	814.0	1081.0	1276.6	1246.8	1185.4	1195.4	1185.4
77.5°	1180.4	646.6	686.4	714.6	963.3	1165.5	1134.0	1071.0	1059.4	1061.1
80°	747.7	540.5	578.6	598.5	860.5	1036.2	1004.7	941.7	1074.3	996.4
82.5°	467.5	439.4	449.3	485.8	749.4	901.9	860.5	804.1	968.2	766.0
85°	258.6	306.7	320.0	351.5	577.0	754.4	712.9	641.6	575.3	565.4
87.5°	154.2	182.4	187.3	210.6	388.0	545.5	482.5	457.6	379.7	378.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)