

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: P300393

Luminaire Tested: **GLNA-AF-07-LED-E1-T4FT-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-T4FT-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32987.1 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

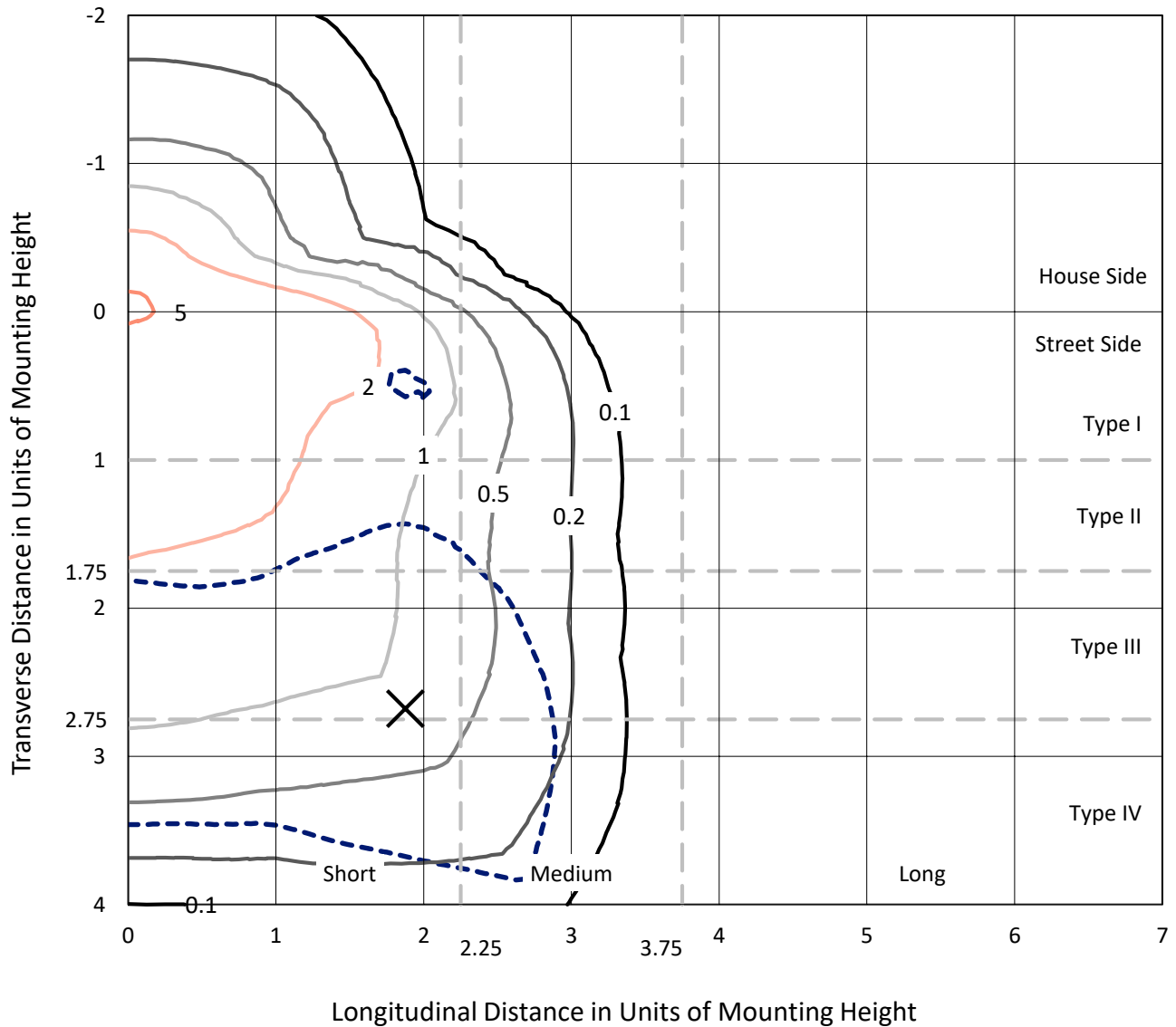
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

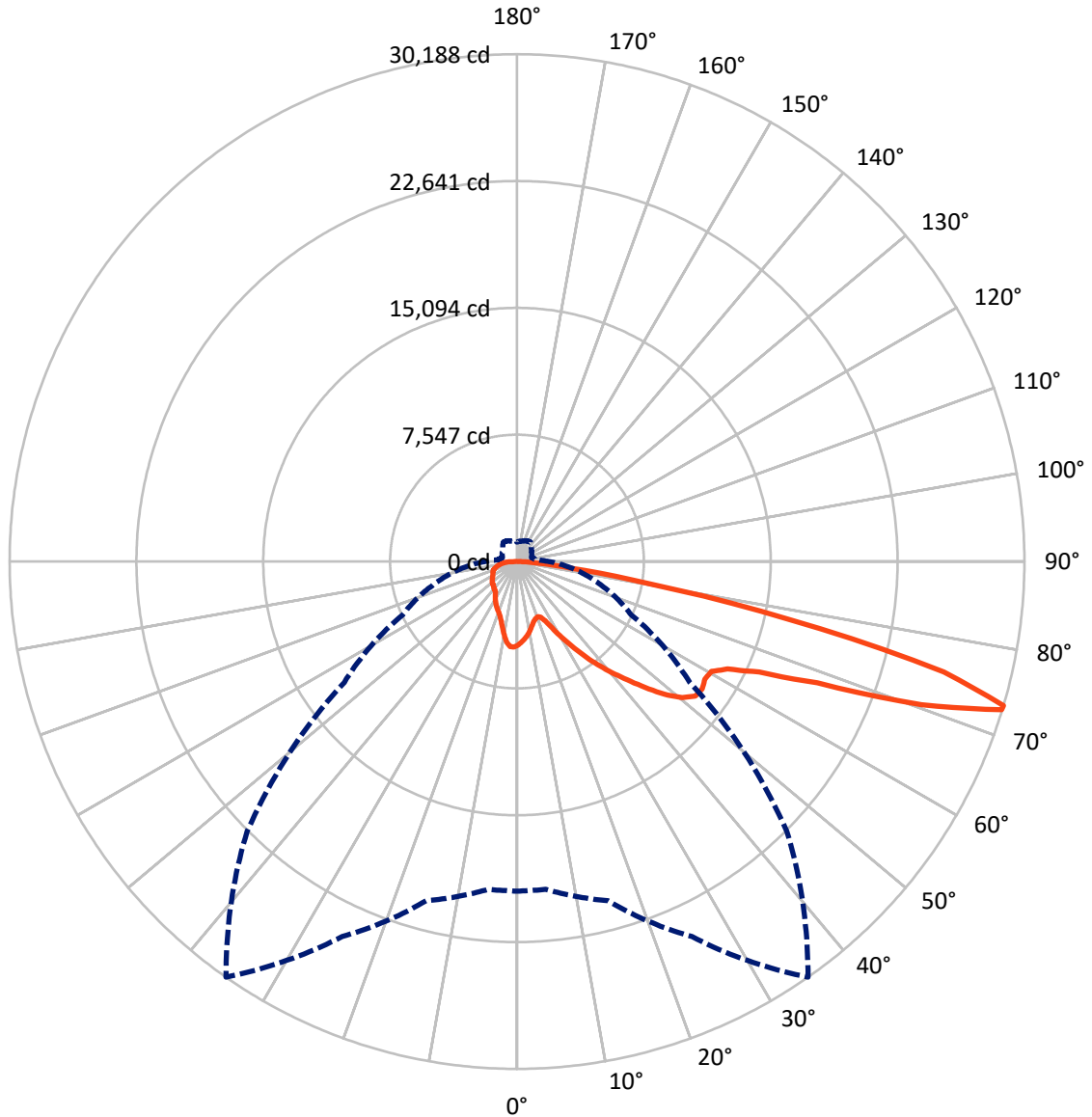
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6291.6	0.0	6291.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	26695.5	0.0	26695.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	32987.1	0.0	32987.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.7	1.4
10°-20°	1124.9	3.4
20°-30°	1818.6	5.5
30°-40°	3049.6	9.2
40°-50°	4700.8	14.3
50°-60°	6306.6	19.1
60°-70°	8401.7	25.5
70°-80°	6407.9	19.4
80°-90°	726.3	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°	32987.1	100.0
0°-180°	32987.1	100.0

Coefficient of Utilization



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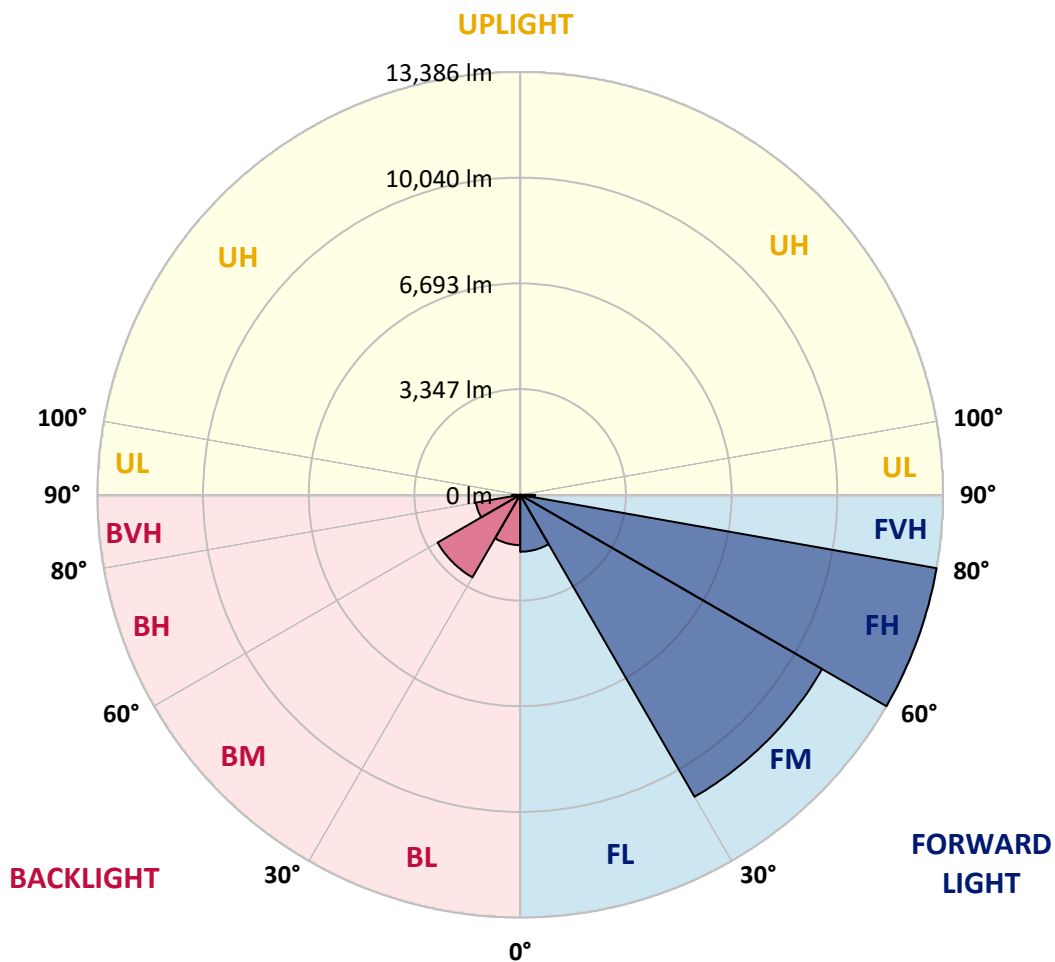
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1802.2	5.5			
FM	(30°-60°)	11037.7	33.5			
FH	(60°-80°)	13386.2	40.6			G5
FVH	(80°-90°)	469.5	1.4			G3/500
BL	(0°-30°)	1592.1	4.8	B3/2500		
BM	(30°-60°)	3019.2	9.2	B3/5000		
BH	(60°-80°)	1423.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	256.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4978.8	4978.8	4978.8	4978.8	4978.8	4978.8	4978.8	4978.8	4978.8	4978.8	4978.8
2.5°	4782.4	4791.9	4780.8	4795.0	4818.8	4844.1	4861.6	4886.9	4915.4	4955.0	4964.5
5°	4557.4	4571.7	4571.7	4597.0	4643.0	4684.1	4722.2	4763.3	4823.5	4891.7	4918.6
7.5°	4310.3	4318.2	4332.5	4370.5	4437.0	4495.6	4549.5	4616.0	4698.4	4788.7	4836.2
10°	4012.5	4023.6	4045.8	4099.6	4189.9	4270.7	4348.3	4440.2	4544.7	4657.2	4717.4
12.5°	3801.8	3798.6	3808.1	3847.7	3926.9	4025.2	4137.6	4254.9	4383.2	4514.6	4587.5
15°	3730.5	3713.1	3676.7	3667.2	3709.9	3808.1	3938.0	4082.2	4235.8	4394.3	4484.5
17.5°	3774.9	3744.8	3645.0	3572.1	3565.8	3640.2	3778.0	3939.6	4117.0	4310.3	4422.8
20°	4053.7	3982.4	3736.9	3567.4	3508.7	3545.2	3665.6	3836.7	4045.8	4302.4	4446.5
22.5°	4720.6	4616.0	4094.9	3779.6	3581.6	3537.3	3627.6	3809.7	4053.7	4400.6	4584.3
25°	5691.6	5542.7	4709.5	4308.7	3900.0	3664.0	3684.6	3871.5	4166.1	4628.7	4850.5
27.5°	6458.3	6361.7	5512.6	5054.8	4479.8	4006.2	3869.9	4026.7	4395.8	5002.5	5229.1
30°	6914.5	6855.9	6371.2	5900.7	5219.6	4551.1	4224.8	4318.2	4755.4	5520.5	5707.5
32.5°	7443.6	7408.8	7171.2	6738.7	6017.9	5267.1	4787.1	4753.8	5237.0	6143.1	6228.6
35°	7991.7	7980.6	7841.2	7530.7	6874.9	6211.2	5533.2	5308.3	5761.3	6789.4	6735.5
37.5°	8501.8	8482.8	8402.0	8221.4	7771.5	7225.0	6293.6	5877.0	6326.8	7407.2	7168.0
40°	9441.1	9292.2	9015.0	8878.8	8677.6	8078.8	6897.1	6407.6	6912.9	7996.5	7541.8
42.5°	10586.4	10344.1	9827.7	9640.7	9612.2	8752.1	7309.0	6922.5	7503.8	8581.0	7909.3
45°	11487.8	11259.7	10814.5	10578.5	10683.1	9361.9	7722.4	7472.1	8112.1	9194.0	8287.9
47.5°	12449.3	12091.3	11502.0	11573.3	11801.4	9938.5	8143.8	8063.0	8779.0	9879.9	8758.4
50°	12484.2	12210.1	11951.9	12378.0	12732.9	10469.2	8671.3	8682.4	9594.8	10743.3	9384.1
52.5°	11760.2	11701.6	12111.9	12782.0	13293.6	10889.0	9271.6	9322.3	10638.7	11734.9	10071.6
55°	11506.8	11440.3	11913.9	12641.0	13369.7	11235.9	9922.7	10014.6	11901.2	12780.4	10741.7
57.5°	12124.6	11977.3	12008.9	12574.5	13184.3	11616.1	10632.4	10817.7	13273.0	13694.4	11172.6
60°	13851.2	13536.0	12937.2	12923.0	13284.1	12186.4	11452.9	11679.5	14698.7	14131.6	11004.6
62.5°	16273.3	15958.1	14836.5	14106.3	14052.4	13127.3	12460.4	12520.6	15522.4	13539.2	9979.7
65°	18895.0	18613.0	17360.0	16328.7	15831.3	14686.1	13631.1	12896.0	15253.2	11909.2	8186.6
67.5°	22077.4	21774.8	20697.7	19745.6	19267.2	17201.6	14453.2	12536.4	13543.9	9225.7	5884.9
70°	24303.0	23994.1	23569.6	24341.0	25511.7	20830.7	14559.3	11074.3	10116.0	6132.0	3542.0
72.5°	21399.4	21255.3	22029.9	25278.8	30154.6	23032.6	13160.6	8063.0	5875.4	3255.3	2049.8
73°	19606.2	19574.5	20895.7	24621.4	30187.9	22693.6	12547.5	7494.3	5039.0	2879.9	1874.0
75°	8853.5	9108.5	12004.2	18806.3	26227.7	18700.1	8831.3	4299.2	2846.6	1989.6	1414.6
77.5°	2127.4	2216.1	3755.9	8931.1	16563.2	11144.0	4001.4	2125.8	1820.1	1405.1	1032.8
80°	906.1	936.2	1446.3	3299.6	7798.5	4487.7	1843.9	1424.1	1259.3	980.5	723.9
82.5°	503.7	535.4	820.6	1497.0	3147.6	1530.2	1124.7	991.6	828.5	590.9	470.5
85°	285.1	302.6	480.0	836.4	1333.8	614.6	673.2	659.0	467.3	304.1	231.3
87.5°	134.6	145.7	231.3	388.1	522.7	240.8	342.2	377.0	293.1	185.3	120.4
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°	4978.8	4978.8	4978.8	4978.8	4978.8	4978.8	4978.8	4978.8	4978.8	4978.8
2.5°	4975.6	5004.1	5037.4	5054.8	5070.7	5089.7	5108.7	5108.7	5111.8	5113.4
5°	4940.8	4999.4	5051.6	5073.8	5078.6	5078.6	5073.8	5048.5	5026.3	5035.8
7.5°	4867.9	4953.4	4997.8	4989.9	4929.7	4860.0	4801.4	4730.1	4693.6	4687.3
10°	4763.3	4861.6	4869.5	4790.3	4641.4	4492.5	4368.9	4248.5	4191.5	4177.2
12.5°	4647.7	4738.0	4687.3	4524.1	4284.9	4067.9	3911.1	3789.1	3735.3	3721.0
15°	4554.2	4616.0	4487.7	4231.1	3930.1	3700.4	3570.5	3480.2	3442.2	3431.1
17.5°	4505.1	4517.8	4283.4	3936.5	3616.5	3424.8	3344.0	3301.2	3287.0	3279.1
20°	4528.9	4440.2	4088.5	3662.4	3359.8	3225.2	3206.2	3195.1	3191.9	3187.2
22.5°	4647.7	4416.4	3909.5	3402.6	3134.9	3076.3	3092.1	3090.5	3087.4	3084.2
25°	4860.0	4437.0	3735.3	3155.5	2946.4	2933.7	2962.2	2962.2	2949.6	2949.6
27.5°	5140.4	4479.8	3540.4	2921.1	2775.3	2776.9	2799.1	2792.7	2778.5	2769.0
30°	5482.5	4506.7	3312.3	2710.4	2615.3	2609.0	2615.3	2588.4	2545.6	2542.5
32.5°	5832.6	4473.5	3047.8	2523.4	2445.8	2431.6	2426.8	2388.8	2339.7	2325.4
35°	6149.4	4351.5	2778.5	2374.5	2284.3	2252.6	2274.7	2262.1	2217.7	2206.6
37.5°	6380.7	4125.0	2536.1	2243.1	2168.6	2160.7	2174.9	2179.7	2127.4	2116.3
40°	6535.9	3817.6	2328.6	2132.2	2146.4	2116.3	2068.8	2035.5	2019.7	2015.0
42.5°	6661.1	3497.7	2154.4	2079.9	2151.2	2064.1	1961.1	1907.2	1935.8	1948.4
45°	6805.2	3185.6	2008.6	2015.0	2127.4	2003.9	1886.6	1834.4	1845.5	1848.6
47.5°	7003.2	2805.4	1851.8	1910.4	2048.2	1962.7	1840.7	1766.3	1714.0	1690.2
50°	7277.3	2355.5	1688.6	1793.2	1970.6	1932.6	1769.4	1690.2	1593.6	1571.4
52.5°	7467.4	1935.8	1554.0	1695.0	1900.9	1872.4	1712.4	1609.4	1508.0	1489.0
55°	7364.4	1607.8	1436.8	1585.7	1809.0	1797.9	1664.9	1527.1	1447.9	1432.0
57.5°	6849.6	1400.3	1346.5	1482.7	1696.6	1734.6	1601.5	1457.4	1400.3	1389.2
60°	5867.5	1270.4	1289.4	1413.0	1604.7	1671.2	1538.1	1419.3	1381.3	1373.4
62.5°	4552.7	1183.3	1246.7	1362.3	1533.4	1626.9	1503.3	1414.6	1400.3	1390.8
65°	3261.6	1113.6	1200.7	1311.6	1468.4	1585.7	1490.6	1408.3	1411.4	1403.5
67.5°	2216.1	1051.8	1145.3	1254.6	1405.1	1549.2	1473.2	1386.1	1425.7	1416.2
70°	1550.8	991.6	1080.3	1181.7	1325.9	1498.5	1441.5	1352.8	1349.6	1311.6
72.5°	1210.2	912.4	991.6	1080.3	1224.5	1427.3	1378.2	1278.4	1226.1	1186.5
73°	1154.8	893.4	969.5	1058.2	1202.3	1409.8	1360.7	1257.8	1199.2	1162.7
75°	955.2	811.1	880.8	960.0	1107.3	1327.5	1275.2	1164.3	1089.9	1067.7
77.5°	750.9	693.8	760.4	831.6	975.8	1207.1	1148.5	1042.3	1001.1	982.1
80°	556.0	575.0	633.6	697.0	845.9	1078.8	1026.5	920.4	1104.1	1058.2
82.5°	391.3	435.6	489.5	546.5	709.7	953.6	890.3	781.0	807.9	671.7
85°	231.3	285.1	335.8	384.9	511.7	790.5	735.0	622.5	510.1	486.3
87.5°	134.6	158.4	172.7	223.4	351.7	595.6	518.0	461.0	264.5	179.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)