

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: P302795

Luminaire Tested: **GLNA-AF-06-LED-E1-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)
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-T4W
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35232.9 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

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

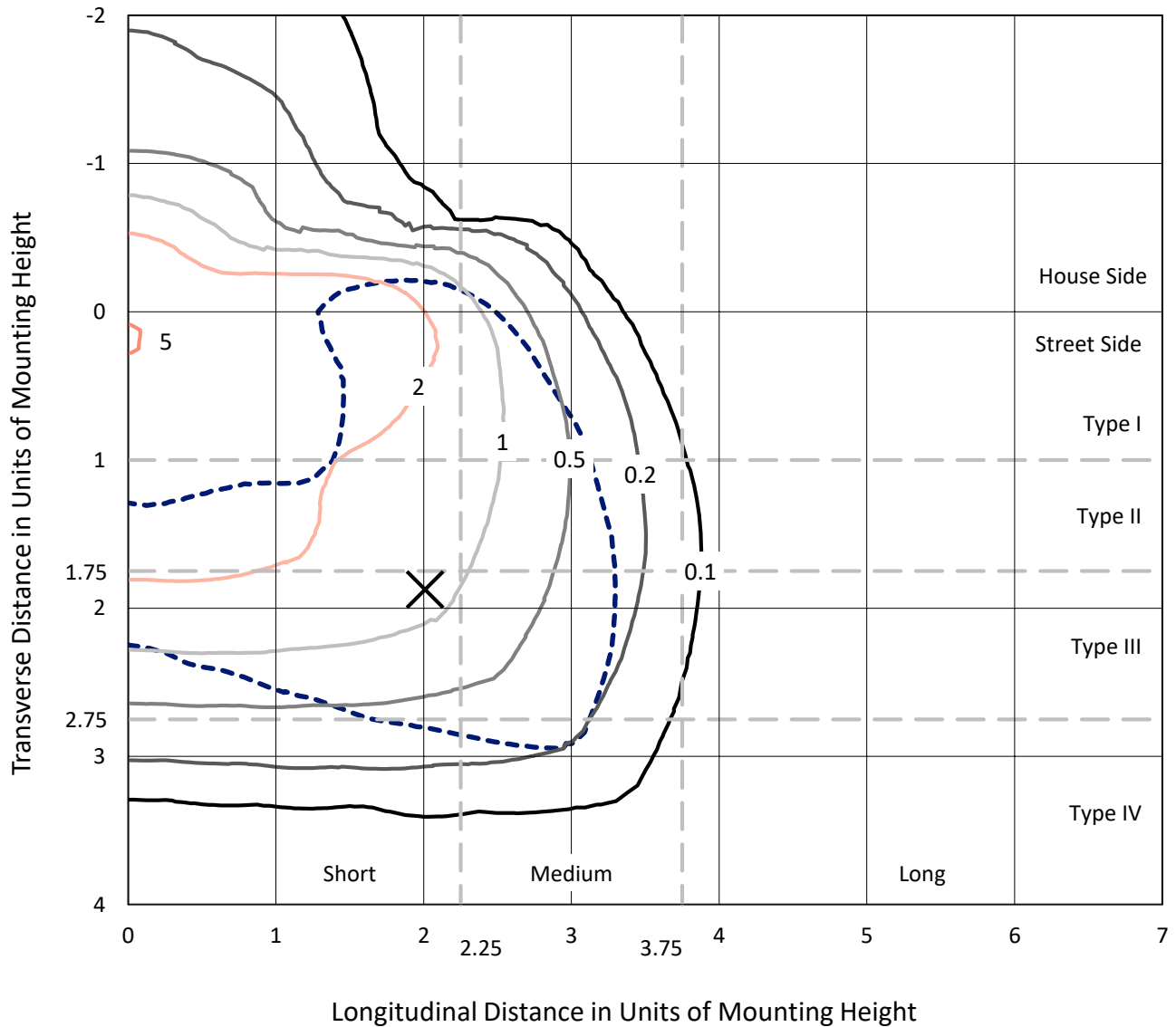


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

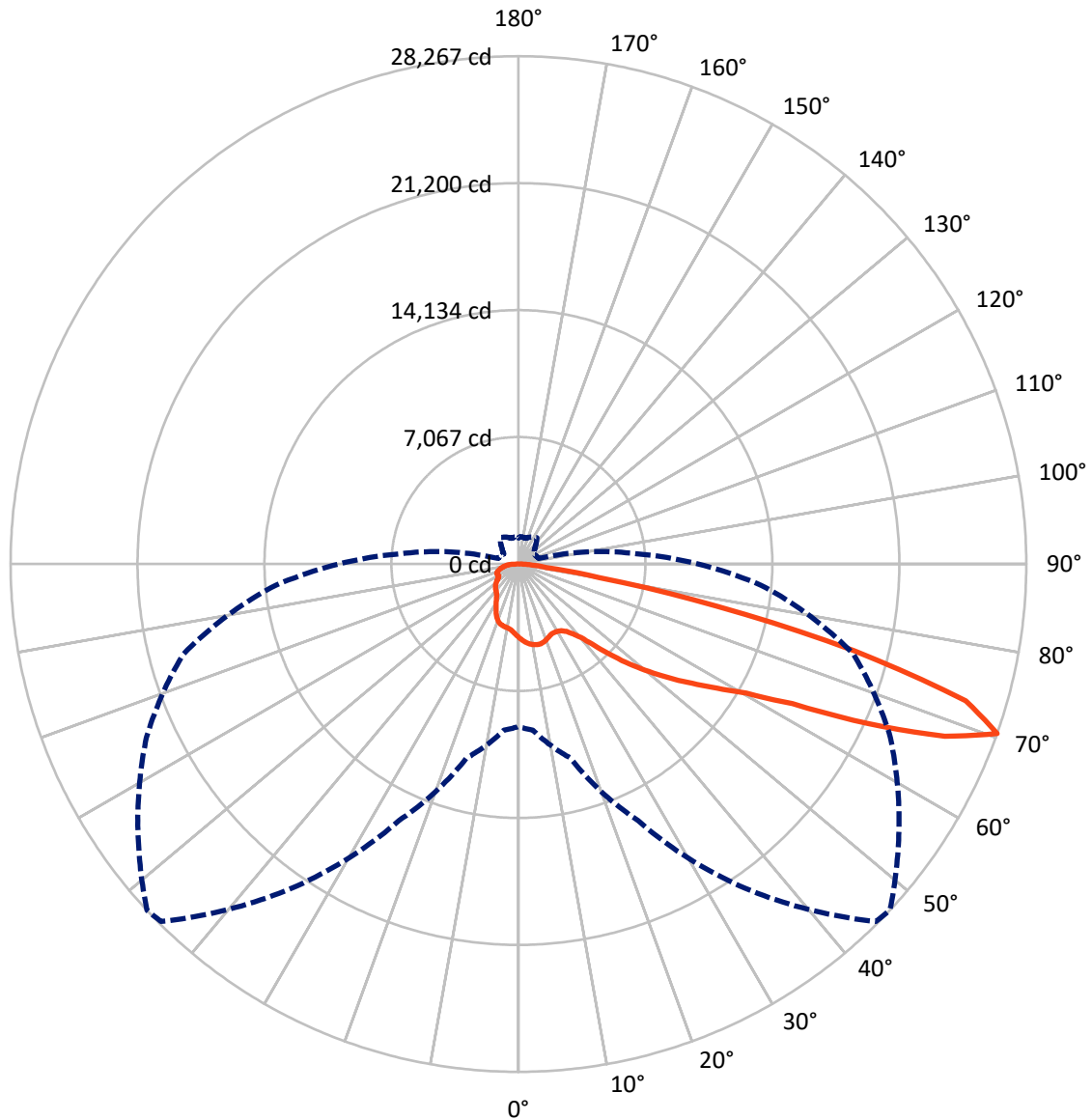


Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7350.3	0.0	7350.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	27882.6	0.0	27882.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	35232.9	0.0	35232.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.7	1.1
10°-20°	1149.2	3.3
20°-30°	1697.0	4.8
30°-40°	2466.6	7.0
40°-50°	4439.0	12.6
50°-60°	7690.1	21.8
60°-70°	10976.0	31.2
70°-80°	5634.5	16.0
80°-90°	788.8	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°	35232.9	100.0
0°-180°	35232.9	100.0

Coefficient of Utilization



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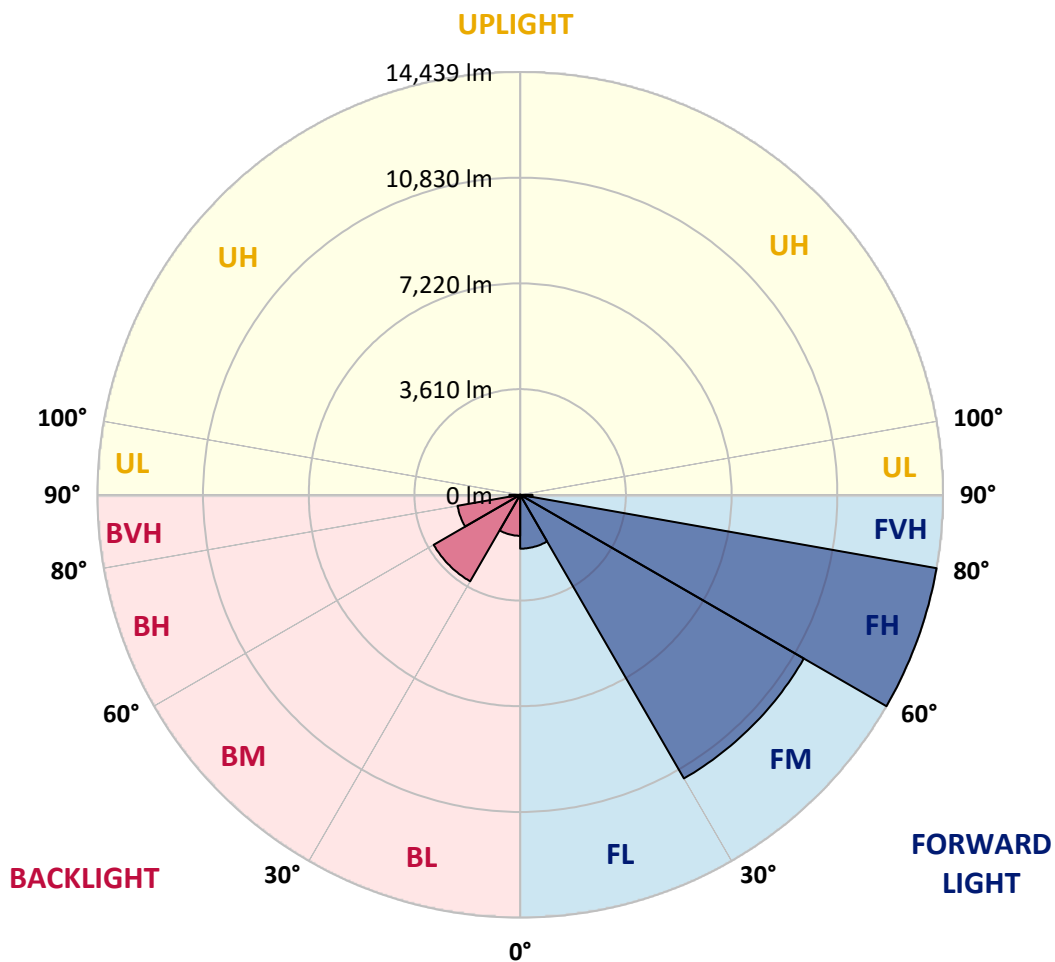
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1838.4	5.2			
FM	(30°-60°)	11183.9	31.7			
FH	(60°-80°)	14439.4	41.0			G5
FVH	(80°-90°)	420.9	1.2			G3/500
BL	(0°-30°)	1399.5	4.0	B3/2500		
BM	(30°-60°)	3411.8	9.7	B3/5000		
BH	(60°-80°)	2171.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	367.9	1.0			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°	47°	55°	65°	75°	85°
0°	4088.0	4088.0	4088.0	4088.0	4088.0	4088.0	4088.0	4088.0	4088.0	4088.0	4088.0
2.5°	4328.3	4319.7	4316.3	4309.5	4300.9	4257.7	4249.1	4218.4	4175.7	4130.7	4084.6
5°	4612.9	4611.2	4591.8	4557.7	4503.0	4408.5	4386.3	4311.2	4209.8	4111.9	4014.6
7.5°	4862.8	4847.4	4811.6	4742.7	4647.1	4518.4	4487.7	4382.9	4244.0	4110.2	3978.1
10°	5046.1	5037.6	4959.0	4864.5	4739.3	4597.0	4561.1	4444.4	4291.8	4122.2	3957.7
12.5°	5150.9	5133.8	5042.7	4930.0	4780.8	4641.9	4605.5	4487.7	4316.3	4122.2	3928.6
15°	5144.0	5132.1	5041.0	4917.5	4767.2	4645.3	4612.9	4494.5	4311.2	4105.1	3891.0
17.5°	5006.8	5012.0	4935.1	4813.3	4689.8	4597.0	4567.9	4458.6	4276.5	4070.9	3846.6
20°	4767.2	4791.1	4739.3	4631.7	4562.8	4499.6	4480.8	4388.0	4223.5	4021.4	3798.3
22.5°	4526.9	4549.1	4528.6	4437.6	4427.3	4389.7	4379.5	4312.9	4177.4	3990.7	3769.2
25°	4350.5	4371.0	4367.5	4288.4	4319.7	4318.0	4309.5	4276.5	4167.1	3990.7	3774.3
27.5°	4302.6	4309.5	4302.6	4230.3	4273.0	4307.8	4300.9	4295.2	4197.9	4040.2	3839.8
30°	4467.2	4456.9	4403.4	4257.7	4297.5	4345.3	4338.5	4341.9	4290.1	4170.6	3985.5
32.5°	5123.5	5076.9	4908.9	4499.6	4394.9	4420.5	4423.9	4480.8	4489.4	4371.0	4211.6
35°	6105.6	6054.3	5836.3	5147.5	4698.3	4609.5	4609.5	4694.9	4746.1	4659.0	4562.8
37.5°	7146.2	7089.3	6973.1	6045.8	5335.9	4936.8	4928.3	4988.1	5061.5	5082.6	5106.5
40°	8328.6	8268.8	8301.3	7053.4	6225.7	5503.8	5382.0	5339.3	5538.0	5670.1	5862.5
42.5°	9623.2	9595.3	9607.2	8176.0	7238.4	6352.6	6179.6	5958.1	6198.4	6432.9	6835.9
45°	10820.9	10844.8	10832.9	9377.8	8366.7	7387.6	7204.3	6775.6	7010.7	7413.2	8070.2
47.5°	11870.1	11770.5	11924.8	10690.6	9630.0	8546.6	8320.1	7746.2	7984.2	8481.2	9591.8
50°	13143.6	13129.9	12903.9	12442.8	11156.8	9710.3	9413.7	8748.7	9118.8	9809.9	11510.3
52.5°	14482.6	14233.8	14026.6	13805.1	12777.0	10903.5	10539.7	9747.8	10452.6	11321.3	13848.4
55°	14756.4	14645.4	14902.1	15274.4	14338.5	12142.8	11719.3	11000.8	11954.4	13049.7	16544.5
57.5°	15342.7	15341.0	15872.7	16536.0	15946.2	13457.3	13030.3	12514.5	13642.3	15029.1	19406.8
60°	15739.0	15850.0	16837.7	18124.8	17524.8	14976.1	14583.3	14261.1	15562.5	17241.9	22073.9
62.5°	15946.2	16097.0	17444.5	18769.3	19756.4	17504.3	17112.1	16647.5	18102.6	19669.3	23633.8
65°	15084.3	15380.3	17350.0	19326.6	21710.7	21602.6	21426.1	20610.3	21278.7	21587.2	23070.2
67.5°	12697.9	13001.3	15294.9	18806.8	23106.0	25555.7	25593.2	24199.6	23233.0	21751.7	19396.6
70°	9047.0	9285.0	11183.0	15768.0	22043.2	28138.5	28267.2	25853.4	22843.6	19290.1	13551.8
72.5°	4295.2	4441.0	6237.6	10262.5	17492.4	25781.7	26030.5	23741.9	19423.9	14281.6	7392.7
75°	1578.6	1623.0	2108.1	4365.8	10145.8	19012.9	19306.1	17019.3	12876.0	7110.3	2816.2
77.5°	946.1	975.2	1183.0	1842.8	3990.7	10867.6	11300.8	9256.0	5627.4	2646.6	1385.1
80°	661.5	682.0	848.2	1146.5	1885.5	4141.5	4526.9	3777.8	2241.8	1674.8	1007.6
82.5°	447.5	457.7	596.6	774.8	1253.0	1479.0	1595.7	1680.0	1512.0	1246.2	639.3
85°	293.2	303.4	404.8	510.6	797.0	764.5	781.6	988.8	1103.8	846.5	354.7
87.5°	167.9	174.8	243.7	272.7	391.1	323.9	327.3	520.9	706.5	571.0	215.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4088.0	4088.0	4088.0	4088.0	4088.0	4088.0	4088.0	4088.0	4088.0	4088.0	4088.0
2.5°	4072.6	4050.4	4000.9	3969.6	3940.6	3933.7	3921.8	3920.1	3918.4	3918.4	3913.2
5°	3981.6	3944.0	3867.1	3823.9	3788.0	3784.6	3782.9	3791.4	3794.8	3798.3	3793.1
7.5°	3923.5	3872.3	3776.1	3714.6	3671.9	3661.1	3678.7	3718.0	3743.6	3753.9	3748.7
10°	3887.6	3823.9	3712.9	3645.7	3609.8	3604.7	3626.9	3673.6	3726.5	3747.0	3745.3
12.5°	3846.6	3774.3	3655.9	3585.9	3565.4	3575.7	3604.7	3647.4	3702.6	3735.1	3736.8
15°	3805.1	3721.4	3599.6	3538.1	3529.6	3543.2	3570.5	3603.0	3645.7	3678.7	3682.1
17.5°	3755.6	3667.9	3546.6	3482.9	3476.0	3482.9	3484.6	3501.7	3529.6	3560.3	3568.8
20°	3702.6	3613.2	3486.3	3423.1	3392.4	3365.0	3333.7	3337.1	3345.7	3377.0	3383.8
22.5°	3664.5	3575.7	3440.2	3352.5	3270.5	3188.0	3126.5	3118.0	3121.4	3147.0	3155.5
25°	3667.9	3574.0	3428.2	3277.4	3097.5	2965.4	2882.8	2869.2	2867.5	2886.3	2898.8
27.5°	3735.1	3640.6	3472.6	3199.9	2909.0	2713.2	2626.1	2615.9	2602.2	2607.3	2621.0
30°	3884.2	3796.5	3580.8	3121.4	2704.7	2466.7	2375.6	2365.4	2346.6	2338.0	2348.3
32.5°	4127.3	4055.6	3738.5	3045.7	2500.9	2255.5	2163.3	2141.1	2129.1	2118.9	2127.4
35°	4532.1	4501.3	3949.1	2963.7	2321.0	2092.7	2009.0	1974.8	1957.8	1976.5	1990.2
37.5°	5166.2	5183.3	4225.2	2835.0	2182.1	1985.1	1914.5	1875.2	1849.6	1865.0	1880.3
40°	6064.6	6076.5	4530.4	2653.4	2061.9	1921.3	1846.2	1810.3	1773.9	1746.6	1744.9
42.5°	7243.6	7122.3	4830.4	2456.5	1923.0	1882.0	1798.4	1753.4	1698.7	1623.0	1607.7
45°	8642.3	8215.9	5058.1	2229.9	1767.1	1834.2	1744.9	1683.4	1597.4	1515.4	1506.9
47.5°	10253.9	9389.7	5169.7	1995.3	1621.3	1763.6	1680.0	1582.0	1473.9	1432.9	1427.8
50°	12221.4	10783.4	5222.6	1767.1	1494.9	1671.4	1585.5	1470.5	1379.9	1371.4	1366.3
52.5°	14462.1	12459.9	5240.2	1580.3	1390.2	1551.3	1508.6	1397.0	1324.7	1332.1	1332.1
55°	16806.9	14191.1	5006.8	1444.8	1294.0	1427.8	1456.8	1368.0	1307.6	1335.5	1345.8
57.5°	18959.4	15725.3	4273.0	1340.7	1203.5	1333.8	1438.0	1395.3	1354.3	1465.3	1472.2
60°	20612.0	16631.6	3191.4	1246.2	1136.3	1300.8	1488.1	1500.1	1510.3	1775.6	1812.0
62.5°	20958.1	16330.4	2194.0	1172.7	1105.5	1328.7	1578.6	1580.3	1568.4	1753.4	1775.6
65°	19369.3	14422.2	1595.7	1131.2	1079.9	1378.2	1656.0	1619.6	1541.0	1681.7	1640.1
67.5°	15382.0	10865.9	1328.7	1100.4	1042.4	1374.8	1738.0	1656.0	1525.7	1647.5	1580.3
70°	9984.6	6570.1	1183.0	1074.8	997.4	1309.4	1785.8	1652.6	1480.7	1532.5	1453.4
72.5°	4871.4	2938.1	1085.1	1037.2	951.3	1218.8	1784.1	1621.3	1434.6	1431.2	1388.5
75°	1906.0	1345.8	995.7	980.3	872.7	1115.8	1736.3	1576.9	1379.9	1324.7	1309.4
77.5°	1115.8	959.8	883.0	896.6	778.2	1012.8	1666.3	1500.1	1304.2	1239.3	1222.3
80°	812.4	718.4	752.6	774.8	664.9	910.3	1571.8	1405.6	1220.5	1253.0	1229.1
82.5°	520.9	462.8	610.3	632.5	553.9	805.5	1468.7	1305.9	1102.1	1000.8	976.9
85°	265.9	293.2	454.3	481.6	427.0	661.5	1344.1	1174.4	968.3	832.9	846.5
87.5°	149.2	200.4	289.8	323.9	301.7	508.9	1090.2	968.3	790.2	642.7	565.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)