

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: P194124

Luminaire Tested: **GLEON-AF-06-LED-E1-T4W-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-T4W-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31645 lumens
Efficiency: N/A
Efficacy: 82.8 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): 382
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

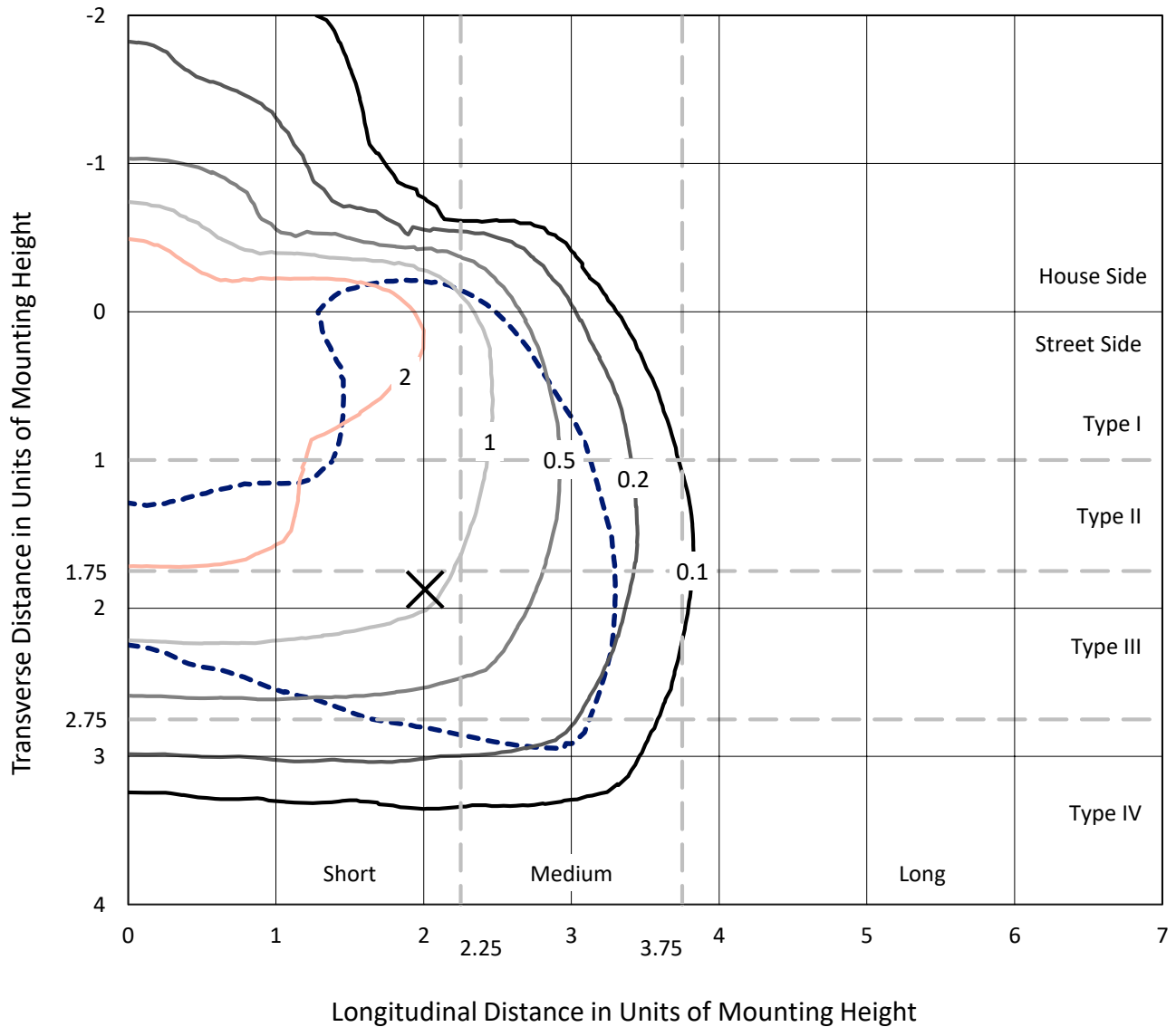


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Iso-Footcandle Lines of Horizontal Illumination

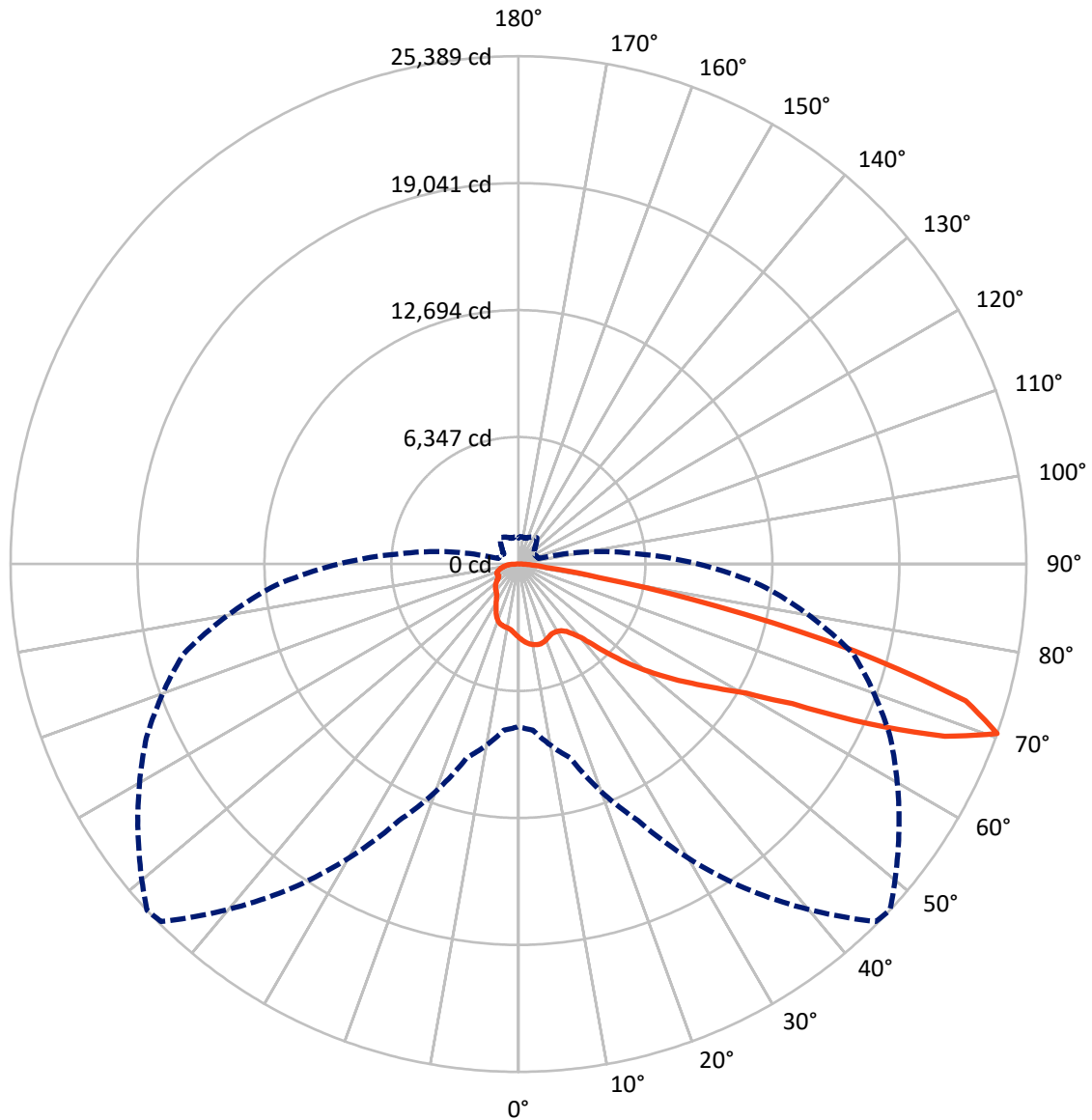
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 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	6601.8	0.0	6601.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	25043.2	0.0	25043.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	31645.0	0.0	31645.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.8	1.1
10°-20°	1032.1	3.3
20°-30°	1524.2	4.8
30°-40°	2215.4	7.0
40°-50°	3987.0	12.6
50°-60°	6907.0	21.8
60°-70°	9858.3	31.2
70°-80°	5060.7	16.0
80°-90°	708.5	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°	31645.0	100.0
0°-180°	31645.0	100.0

Coefficient of Utilization



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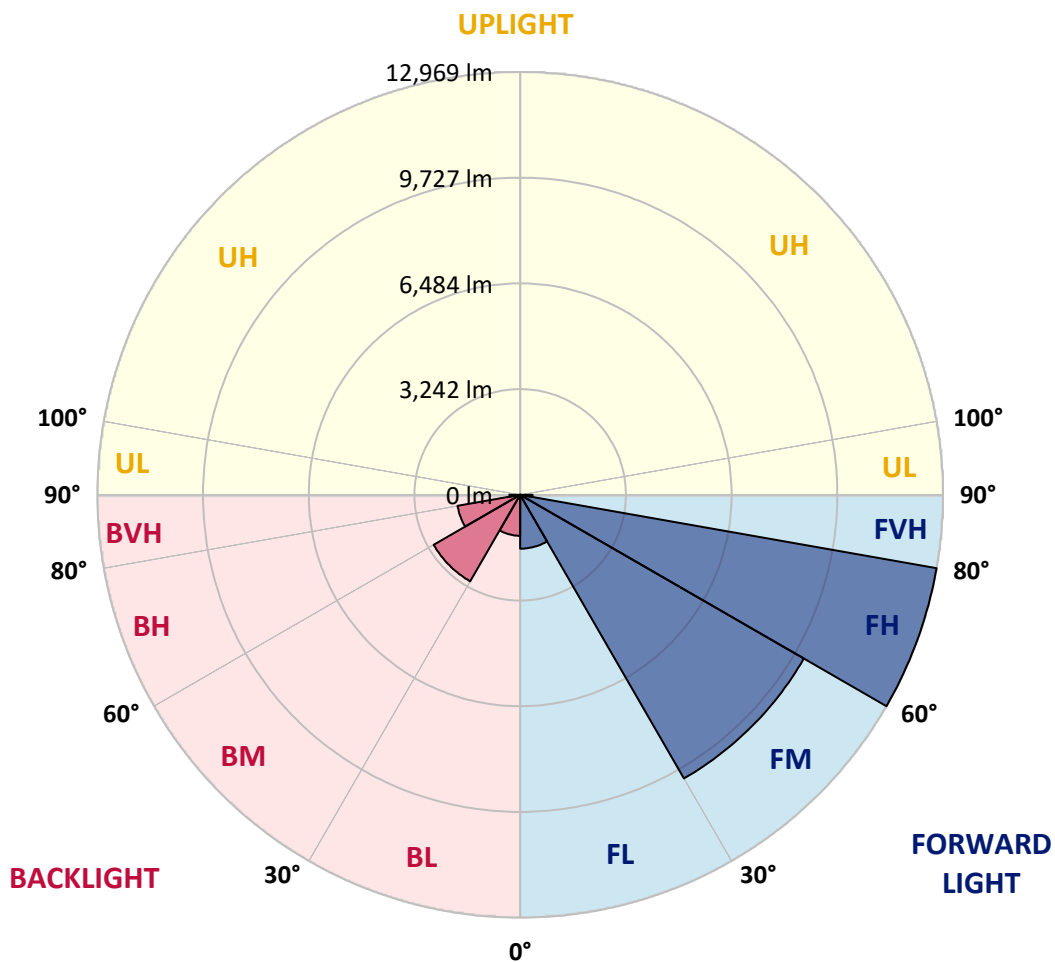
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1651.2	5.2			
FM	(30°-60°)	10045.0	31.7			
FH	(60°-80°)	12969.0	41.0			G5
FVH	(80°-90°)	378.1	1.2			G3/500
BL	(0°-30°)	1257.0	4.0	B3/2500		
BM	(30°-60°)	3064.3	9.7	B3/5000		
BH	(60°-80°)	1950.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	330.4	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°	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8
2.5°	3887.3	3879.6	3876.6	3870.4	3862.7	3824.2	3816.5	3788.8	3750.3	3710.3	3668.7
5°	4142.9	4141.4	4124.4	4093.6	4044.4	3959.7	3939.7	3871.9	3781.1	3693.4	3605.6
7.5°	4367.7	4353.8	4321.5	4259.9	4173.7	4058.2	4030.5	3936.6	3811.9	3691.8	3573.3
10°	4532.4	4524.7	4453.9	4369.2	4256.8	4129.0	4096.7	3992.0	3855.0	3702.6	3554.8
12.5°	4626.3	4610.9	4529.3	4427.7	4293.8	4169.1	4136.7	4030.5	3876.6	3702.6	3528.6
15°	4620.2	4609.4	4527.8	4416.9	4281.5	4172.2	4142.9	4036.7	3871.9	3687.2	3494.8
17.5°	4497.0	4501.6	4432.3	4323.0	4212.2	4129.0	4102.9	4004.3	3841.2	3656.4	3454.7
20°	4281.5	4303.0	4256.8	4159.8	4098.3	4041.3	4024.4	3941.2	3793.4	3611.8	3411.6
22.5°	4065.9	4085.9	4067.5	3985.9	3976.6	3942.8	3933.5	3873.5	3751.9	3584.1	3385.5
25°	3907.4	3925.8	3922.8	3851.9	3879.6	3878.1	3870.4	3841.2	3742.6	3584.1	3390.1
27.5°	3864.2	3870.4	3864.2	3799.6	3838.1	3868.9	3862.7	3858.1	3770.3	3628.7	3448.6
30°	4012.0	4002.8	3955.1	3824.2	3859.6	3902.7	3896.6	3899.7	3853.5	3745.7	3579.4
32.5°	4601.7	4560.1	4409.2	4041.3	3947.4	3970.5	3973.6	4024.4	4032.1	3925.8	3782.7
35°	5483.8	5437.7	5242.1	4623.2	4219.9	4139.8	4139.8	4216.8	4263.0	4184.5	4098.3
37.5°	6418.3	6367.5	6262.9	5430.0	4792.6	4433.9	4426.2	4480.1	4546.3	4564.7	4586.3
40°	7480.6	7426.7	7456.0	6335.2	5591.6	4943.5	4834.2	4795.7	4974.3	5092.8	5265.2
42.5°	8643.0	8618.4	8629.1	7343.6	6501.5	5705.5	5550.0	5351.4	5567.0	5777.9	6139.7
45°	9719.1	9740.7	9729.9	8422.8	7514.5	6635.4	6470.7	6085.8	6296.7	6658.5	7248.2
47.5°	10661.3	10572.0	10710.6	9602.1	8649.1	7676.2	7472.9	6957.2	7171.2	7617.6	8615.3
50°	11805.2	11792.9	11589.7	11175.5	10020.9	8721.5	8455.2	7857.8	8190.4	8810.8	10338.0
52.5°	13007.6	12784.3	12598.1	12399.5	11475.7	9793.0	9466.6	8755.4	9388.1	10168.7	12438.0
55°	13253.9	13153.8	13384.8	13718.8	12878.3	10906.1	10525.8	9880.8	10736.8	11720.5	14859.6
57.5°	13780.4	13778.9	14256.1	14852.0	14322.3	12086.9	11703.6	11240.2	12253.2	13498.7	17430.7
60°	14136.1	14236.1	15122.9	16279.1	15740.3	13451.0	13098.4	12809.0	13977.5	15486.2	19826.2
62.5°	14322.3	14457.8	15667.9	16858.0	17744.7	15721.8	15369.2	14952.0	16259.1	17666.2	21227.2
65°	13548.0	13814.3	15583.2	17358.3	19499.8	19402.8	19244.3	18511.4	19111.9	19389.0	20720.7
67.5°	11404.9	11677.4	13737.3	16891.8	20753.0	22953.0	22986.9	21735.2	20866.9	19536.8	17421.4
70°	8125.7	8339.7	10044.0	14162.2	19798.5	25273.1	25388.6	23220.9	20517.5	17326.0	12171.6
72.5°	3858.1	3989.0	5602.4	9217.2	15711.0	23156.2	23379.5	21324.2	17446.1	12827.5	6640.0
75°	1417.9	1457.9	1893.6	3921.2	9112.5	17076.6	17339.8	15286.1	11565.0	6386.0	2529.5
77.5°	849.8	876.0	1062.3	1655.0	3584.1	9760.7	10150.2	8313.5	5054.3	2377.1	1243.9
80°	594.3	612.7	762.1	1030.0	1693.5	3719.5	4065.9	3393.1	2013.7	1504.1	905.3
82.5°	401.8	411.1	535.8	695.9	1125.4	1328.6	1433.3	1508.8	1357.9	1119.2	574.2
85°	263.3	272.5	363.3	458.8	715.9	686.6	702.0	888.3	991.5	760.5	318.7
87.5°	150.9	157.0	218.6	244.8	351.0	291.0	294.1	468.0	634.3	512.7	194.0
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°	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8
2.5°	3657.9	3637.9	3593.3	3565.6	3539.4	3533.2	3522.5	3520.9	3519.4	3519.4	3514.8
5°	3576.4	3542.5	3473.2	3434.7	3402.4	3399.3	3397.8	3405.5	3408.5	3411.6	3407.0
7.5°	3524.0	3477.8	3391.6	3336.2	3297.7	3288.5	3303.9	3339.3	3362.4	3371.6	3367.0
10°	3491.7	3434.7	3334.6	3274.6	3242.3	3237.7	3257.7	3299.2	3347.0	3365.4	3363.9
12.5°	3454.7	3390.1	3283.8	3220.7	3202.2	3211.5	3237.7	3276.1	3325.4	3354.7	3356.2
15°	3417.8	3342.3	3233.0	3177.6	3169.9	3182.2	3206.9	3236.1	3274.6	3303.9	3306.9
17.5°	3373.1	3294.6	3185.3	3128.3	3122.2	3128.3	3129.9	3145.3	3169.9	3197.6	3205.3
20°	3325.4	3245.4	3131.4	3074.5	3046.8	3022.1	2994.4	2997.5	3005.2	3032.9	3039.1
22.5°	3291.5	3211.5	3089.9	3011.3	2937.4	2863.5	2808.1	2800.4	2803.5	2826.6	2834.3
25°	3294.6	3209.9	3079.1	2943.6	2782.0	2663.4	2589.5	2577.2	2575.7	2592.6	2603.4
27.5°	3354.7	3270.0	3119.1	2874.3	2612.6	2437.1	2358.6	2349.3	2337.0	2341.6	2354.0
30°	3488.6	3410.1	3216.1	2803.5	2429.4	2215.4	2133.8	2124.6	2107.6	2099.9	2109.2
32.5°	3707.2	3642.6	3357.7	2735.8	2246.2	2026.0	1942.9	1922.9	1912.1	1902.9	1910.6
35°	4070.5	4042.8	3547.1	2661.9	2084.5	1879.8	1804.3	1773.6	1758.2	1775.1	1787.4
37.5°	4640.2	4655.6	3795.0	2546.4	1959.8	1782.8	1719.7	1684.3	1661.2	1675.0	1688.9
40°	5446.9	5457.7	4069.0	2383.2	1852.1	1725.8	1658.1	1625.8	1593.4	1568.8	1567.3
42.5°	6506.1	6396.8	4338.4	2206.2	1727.4	1690.4	1615.0	1575.0	1525.7	1457.9	1444.1
45°	7762.4	7379.0	4543.2	2002.9	1587.3	1647.3	1567.3	1511.8	1434.9	1361.0	1353.3
47.5°	9209.5	8433.6	4643.3	1792.0	1456.4	1584.2	1508.8	1421.0	1324.0	1287.1	1282.4
50°	10976.9	9685.3	4691.0	1587.3	1342.5	1501.1	1424.1	1320.9	1239.3	1231.6	1227.0
52.5°	12989.1	11190.9	4706.4	1419.5	1248.6	1393.3	1354.8	1254.7	1190.1	1196.2	1196.2
55°	15095.2	12745.9	4497.0	1297.8	1162.4	1282.4	1308.6	1228.6	1174.7	1199.3	1208.5
57.5°	17028.9	14123.7	3838.1	1203.9	1080.8	1197.8	1291.7	1253.2	1216.2	1316.3	1322.5
60°	18513.0	14938.2	2866.6	1119.2	1020.7	1168.5	1336.3	1347.1	1356.3	1595.0	1627.3
62.5°	18824.0	14667.2	1970.6	1053.0	993.0	1193.1	1417.9	1419.5	1408.7	1575.0	1595.0
65°	17396.8	12953.7	1433.3	1016.1	969.9	1237.8	1487.2	1454.9	1384.0	1510.3	1473.3
67.5°	13815.8	9759.1	1193.1	988.4	936.0	1234.7	1561.1	1487.2	1370.2	1479.5	1419.5
70°	<i>8967.8</i>	<i>5901.1</i>	<i>1062.3</i>	<i>965.3</i>	<i>896.0</i>	<i>1176.2</i>	<i>1604.2</i>	<i>1484.1</i>	<i>1330.2</i>	<i>1376.3</i>	<i>1305.5</i>
72.5°	4375.4	2638.8	974.5	931.4	854.4	1094.6	1602.7	1456.4	1288.6	1285.5	1247.0
75°	1712.0	1208.5	894.5	880.6	783.6	1002.2	1559.6	1416.4	1239.3	1190.1	1176.2
77.5°	1002.2	862.1	792.9	805.2	699.0	909.9	1496.4	1347.1	1171.6	1113.1	1097.7
80°	729.7	645.1	675.9	695.9	597.3	817.5	1411.8	1262.4	1096.2	1125.4	1103.9
82.5°	468.0	415.7	548.1	568.1	497.3	723.6	1319.4	1173.1	989.9	899.1	877.5
85°	238.6	263.3	408.0	432.6	383.3	594.3	1207.0	1054.6	869.8	748.2	760.5
87.5°	133.9	180.1	260.2	291.0	271.0	457.2	979.1	869.8	709.7	577.3	508.0
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)