

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: P194084

Luminaire Tested: **GLEON-AF-06-LED-E1-T4FT-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194084
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: GLEON-AF-06-LED-E1-T4FT-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32060 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-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

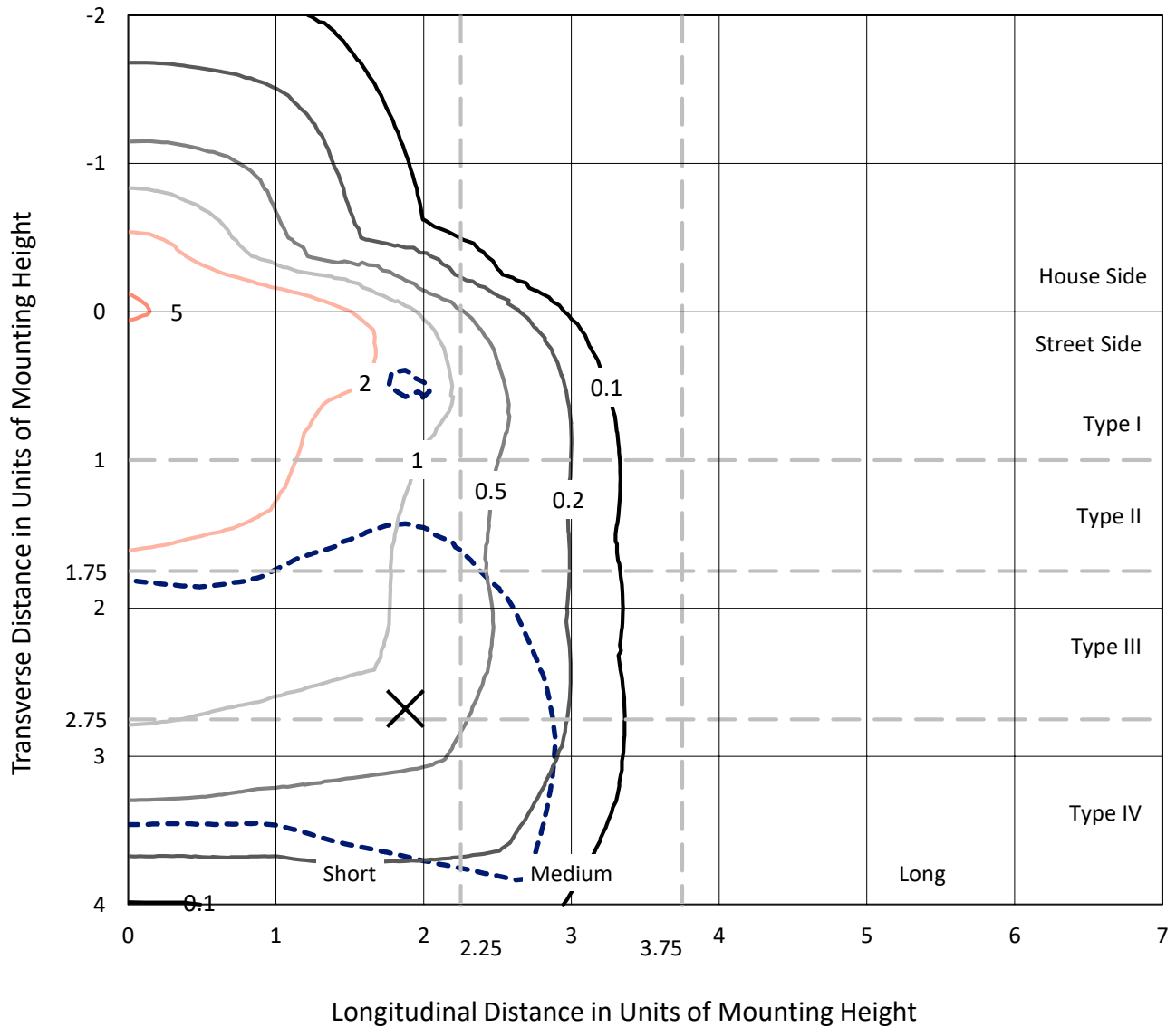


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Iso-Footcandle Lines of Horizontal Illumination

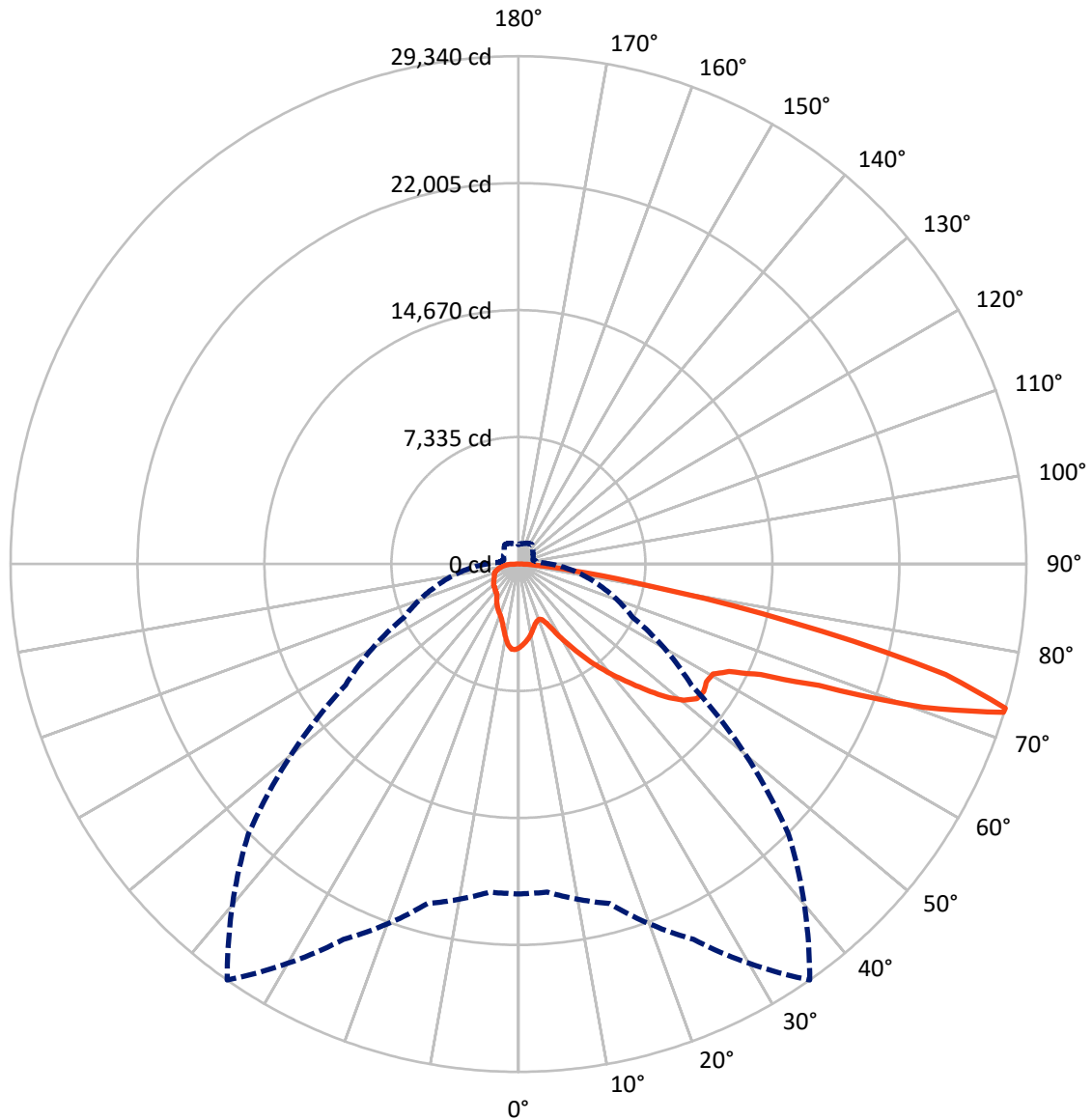
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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	6114.7	0.0	6114.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	25945.3	0.0	25945.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	32060.0	0.0	32060.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.1	1.4
10°-20°	1093.3	3.4
20°-30°	1767.5	5.5
30°-40°	2963.9	9.2
40°-50°	4568.7	14.3
50°-60°	6129.3	19.1
60°-70°	8165.5	25.5
70°-80°	6227.8	19.4
80°-90°	705.9	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°	32060.0	100.0
0°-180°	32060.0	100.0



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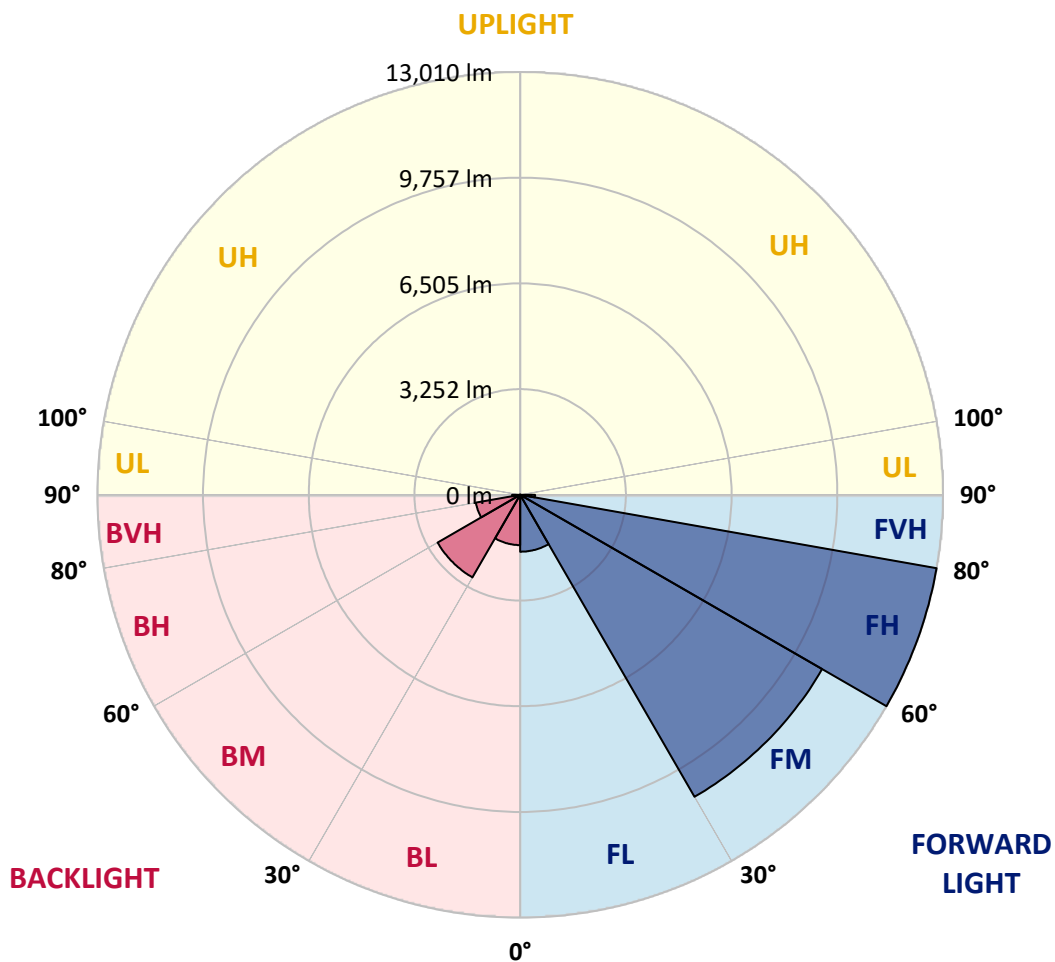
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1751.6	5.5			
FM	(30°-60°)	10727.5	33.5			
FH	(60°-80°)	13009.9	40.6			G5
FVH	(80°-90°)	456.3	1.4			G3/500
BL	(0°-30°)	1547.3	4.8	B3/2500		
BM	(30°-60°)	2934.4	9.2	B3/5000		
BH	(60°-80°)	1383.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	249.6	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°	4838.8	4838.8	4838.8	4838.8	4838.8	4838.8	4838.8	4838.8	4838.8	4838.8	4838.8
2.5°	4647.9	4657.2	4646.4	4660.3	4683.4	4708.0	4724.9	4749.6	4777.3	4815.8	4825.0
5°	4429.3	4443.2	4443.2	4467.8	4512.5	4552.5	4589.4	4629.5	4688.0	4754.2	4780.3
7.5°	4189.2	4196.9	4210.7	4247.7	4312.3	4369.3	4421.6	4486.3	4566.3	4654.1	4700.3
10°	3899.7	3910.5	3932.0	3984.4	4072.1	4150.7	4226.1	4315.4	4417.0	4526.3	4584.8
12.5°	3695.0	3691.9	3701.1	3739.6	3816.6	3912.0	4021.3	4135.3	4260.0	4387.8	4458.6
15°	3625.7	3608.7	3573.3	3564.1	3605.7	3701.1	3827.4	3967.5	4116.8	4270.8	4358.5
17.5°	3668.8	3639.5	3542.5	3471.7	3465.6	3537.9	3671.9	3828.9	4001.3	4189.2	4298.5
20°	3939.7	3870.5	3631.8	3467.1	3410.1	3445.5	3562.6	3728.8	3932.0	4181.5	4321.6
22.5°	4587.9	4486.3	3979.8	3673.4	3481.0	3437.8	3525.6	3702.7	3939.7	4276.9	4455.5
25°	5531.7	5386.9	4577.1	4187.6	3790.4	3561.0	3581.0	3762.7	4049.1	4498.6	4714.1
27.5°	6276.8	6182.9	5357.7	4912.7	4353.9	3893.6	3761.2	3913.6	4272.3	4861.9	5082.1
30°	6720.2	6663.2	6192.1	5734.9	5072.9	4423.2	4106.0	4196.9	4621.8	5365.4	5547.0
32.5°	7234.4	7200.5	6969.6	6549.3	5848.8	5119.1	4652.6	4620.2	5089.8	5970.4	6053.6
35°	7767.1	7756.3	7620.8	7319.1	6681.7	6036.6	5377.7	5159.1	5599.4	6598.6	6546.2
37.5°	8262.8	8244.4	8165.8	7990.3	7553.1	7022.0	6116.7	5711.8	6149.0	7199.0	6966.5
40°	9175.8	9031.1	8761.7	8629.3	8433.7	7851.8	6703.3	6227.5	6718.7	7771.7	7329.9
42.5°	10288.9	10053.4	9551.5	9369.8	9342.1	8506.1	7103.5	6727.9	7292.9	8339.8	7687.0
45°	11164.9	10943.2	10510.6	10281.2	10382.8	9098.8	7505.4	7262.1	7884.1	8935.6	8055.0
47.5°	12099.4	11751.5	11178.8	11248.1	11469.8	9659.2	7914.9	7836.4	8532.3	9602.3	8512.2
50°	12133.3	11867.0	11616.0	12030.2	12375.0	10175.0	8427.6	8438.4	9325.1	10441.3	9120.4
52.5°	11429.7	11372.8	11771.5	12422.7	12920.0	10583.0	9011.1	9060.3	10339.7	11405.1	9788.5
55°	11183.4	11118.7	11579.1	12285.7	12993.9	10920.1	9643.8	9733.1	11566.7	12421.2	10439.8
57.5°	11783.8	11640.6	11671.4	12221.1	12813.8	11289.6	10333.6	10513.7	12900.0	13309.5	10858.5
60°	13461.9	13155.6	12573.6	12559.8	12910.8	11843.9	11131.0	11351.2	14285.6	13734.5	10695.4
62.5°	15815.9	15509.6	14419.6	13709.8	13657.5	12758.4	12110.2	12168.7	15086.2	13158.7	9699.3
65°	18363.9	18089.9	16872.1	15869.8	15386.4	14273.3	13247.9	12533.6	14824.5	11574.4	7956.5
67.5°	21456.9	21162.8	20115.9	19190.7	18725.7	16718.1	14047.0	12184.1	13163.3	8966.4	5719.5
70°	23620.0	23319.8	22907.2	23656.9	24794.7	20245.3	14150.1	10763.1	9831.7	5959.7	3442.5
72.5°	20798.0	20657.9	21410.7	24568.4	29307.1	22385.3	12790.7	7836.4	5710.2	3163.8	1992.2
73°	19055.2	19024.4	20308.4	23929.4	29339.5	22055.8	12194.9	7283.7	4897.4	2798.9	1821.3
75°	8604.6	8852.5	11666.8	18277.7	25490.6	18174.6	8583.1	4178.4	2766.6	1933.7	1374.8
77.5°	2067.6	2153.9	3650.3	8680.1	16097.7	10830.8	3888.9	2066.1	1769.0	1365.6	1003.8
80°	880.6	909.9	1405.6	3206.9	7579.3	4361.6	1792.1	1384.1	1224.0	953.0	703.6
82.5°	489.6	520.4	797.5	1454.9	3059.1	1487.2	1093.1	963.8	805.2	574.3	457.3
85°	277.1	294.1	466.5	812.9	1296.3	597.4	654.3	640.5	454.2	295.6	224.8
87.5°	130.9	141.6	224.8	377.2	508.1	234.0	332.5	366.4	284.8	180.1	117.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4838.8	4838.8	4838.8	4838.8	4838.8	4838.8	4838.8	4838.8	4838.8	4838.8
2.5°	4835.8	4863.5	4895.8	4912.7	4928.1	4946.6	4965.1	4965.1	4968.2	4969.7
5°	4801.9	4858.9	4909.7	4931.2	4935.8	4935.8	4931.2	4906.6	4885.0	4894.3
7.5°	4731.1	4814.2	4857.3	4849.6	4791.1	4723.4	4666.4	4597.1	4561.7	4555.6
10°	4629.5	4724.9	4732.6	4655.6	4510.9	4366.2	4246.1	4129.1	4073.7	4059.8
12.5°	4517.1	4604.8	4555.6	4397.0	4164.5	3953.6	3801.2	3682.6	3630.3	3616.4
15°	4426.2	4486.3	4361.6	4112.2	3819.7	3596.4	3470.2	3382.4	3345.5	3334.7
17.5°	4378.5	4390.8	4163.0	3825.8	3514.8	3328.5	3250.0	3208.5	3194.6	3186.9
20°	4401.6	4315.4	3973.6	3559.5	3265.4	3134.6	3116.1	3105.3	3102.2	3097.6
22.5°	4517.1	4292.3	3799.6	3307.0	3046.8	2989.8	3005.2	3003.7	3000.6	2997.5
25°	4723.4	4312.3	3630.3	3066.8	2863.6	2851.3	2879.0	2879.0	2866.7	2866.7
27.5°	4995.9	4353.9	3440.9	2839.0	2697.3	2698.9	2720.4	2714.3	2700.4	2691.2
30°	5328.4	4380.1	3219.2	2634.2	2541.8	2535.7	2541.8	2515.6	2474.1	2471.0
32.5°	5668.7	4347.7	2962.1	2452.5	2377.1	2363.2	2358.6	2321.7	2273.9	2260.1
35°	5976.6	4229.2	2700.4	2307.8	2220.1	2189.3	2210.8	2198.5	2155.4	2144.6
37.5°	6201.4	4009.0	2464.8	2180.0	2107.7	2100.0	2113.8	2118.4	2067.6	2056.9
40°	6352.2	3710.3	2263.2	2072.3	2086.1	2056.9	2010.7	1978.3	1962.9	1958.3
42.5°	6473.9	3399.4	2093.8	2021.4	2090.7	2006.1	1906.0	1853.6	1881.3	1893.7
45°	6614.0	3096.1	1952.2	1958.3	2067.6	1947.5	1833.6	1782.8	1793.6	1796.7
47.5°	6806.4	2726.6	1799.8	1856.7	1990.7	1907.5	1789.0	1716.6	1665.8	1642.7
50°	7072.8	2289.3	1641.2	1742.8	1915.2	1878.3	1719.7	1642.7	1548.8	1527.2
52.5°	7257.5	1881.3	1510.3	1647.3	1847.5	1819.8	1664.3	1564.2	1465.7	1447.2
55°	7157.4	1562.7	1396.4	1541.1	1758.2	1747.4	1618.1	1484.1	1407.2	1391.8
57.5°	6657.1	1361.0	1308.6	1441.0	1648.9	1685.8	1556.5	1416.4	1361.0	1350.2
60°	5702.5	1234.7	1253.2	1373.3	1559.6	1624.2	1494.9	1379.4	1342.5	1334.8
62.5°	4424.7	1150.1	1211.6	1324.0	1490.3	1581.1	1461.0	1374.8	1361.0	1351.7
65°	3170.0	1082.3	1167.0	1274.8	1427.2	1541.1	1448.7	1368.7	1371.8	1364.1
67.5°	2153.9	1022.3	1113.1	1219.3	1365.6	1505.7	1431.8	1347.1	1385.6	1376.4
70°	1507.2	963.8	1050.0	1148.5	1288.6	1456.4	1401.0	1314.8	1311.7	1274.8
72.5°	1176.2	886.8	963.8	1050.0	1190.1	1387.1	1339.4	1242.4	1191.6	1153.1
73°	1122.3	868.3	942.2	1028.4	1168.5	1370.2	1322.5	1222.4	1165.5	1130.0
75°	928.4	788.3	856.0	933.0	1076.2	1290.2	1239.3	1131.6	1059.2	1037.7
77.5°	729.8	674.3	739.0	808.3	948.4	1173.1	1116.2	1013.0	973.0	954.5
80°	540.4	558.9	615.8	677.4	822.1	1048.4	997.6	894.5	1073.1	1028.4
82.5°	380.3	423.4	475.7	531.1	689.7	926.8	865.2	759.0	785.2	652.8
85°	224.8	277.1	326.4	374.1	497.3	768.2	714.4	605.0	495.7	472.6
87.5°	130.9	154.0	167.8	217.1	341.8	578.9	503.4	448.0	257.1	174.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)