

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: P269436

Luminaire Tested: **GLEON-AF-06-LED-E1-T4FT-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269436
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 34134.9 lumens
Efficiency: N/A
Efficacy: 89.4 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

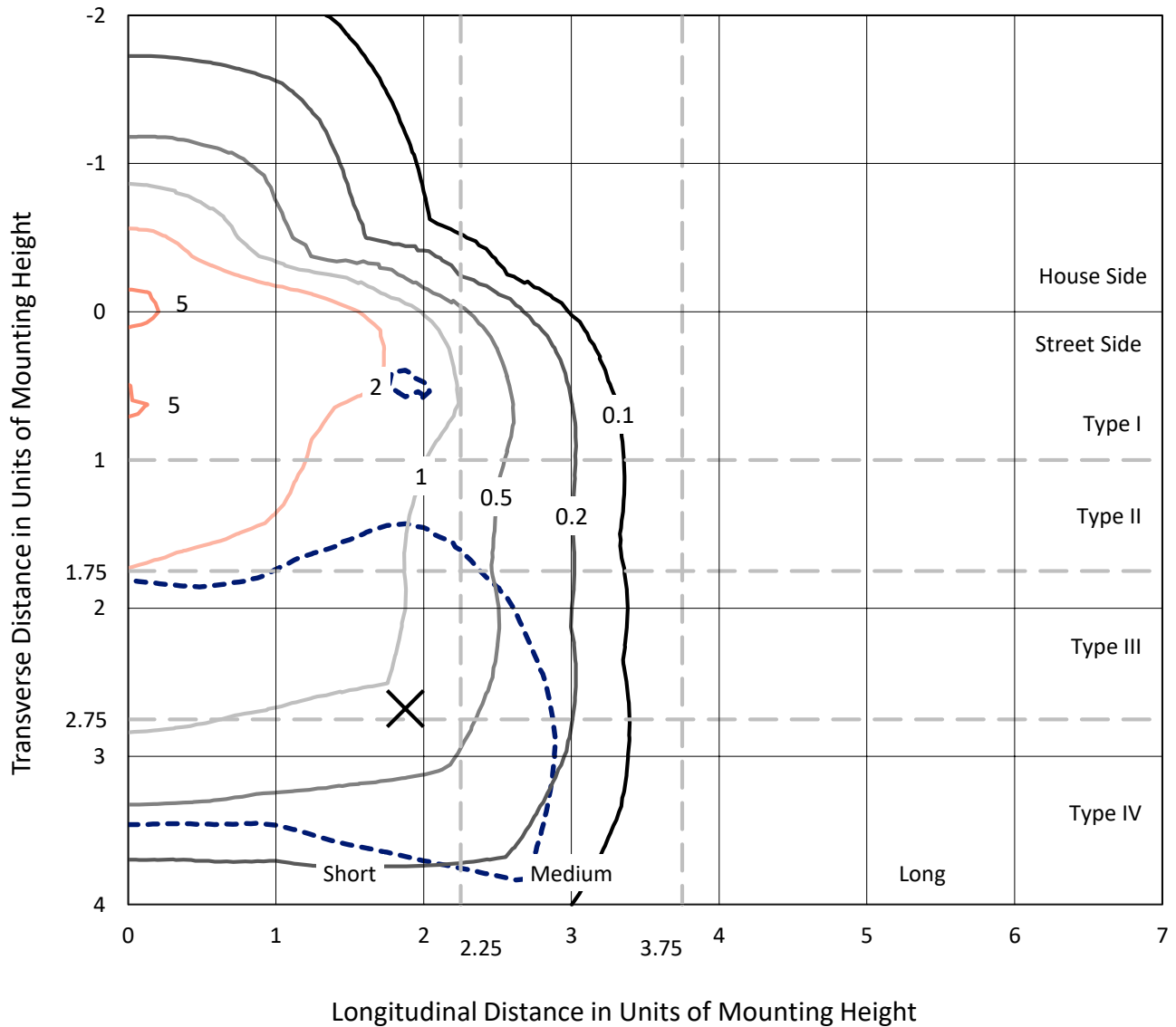


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

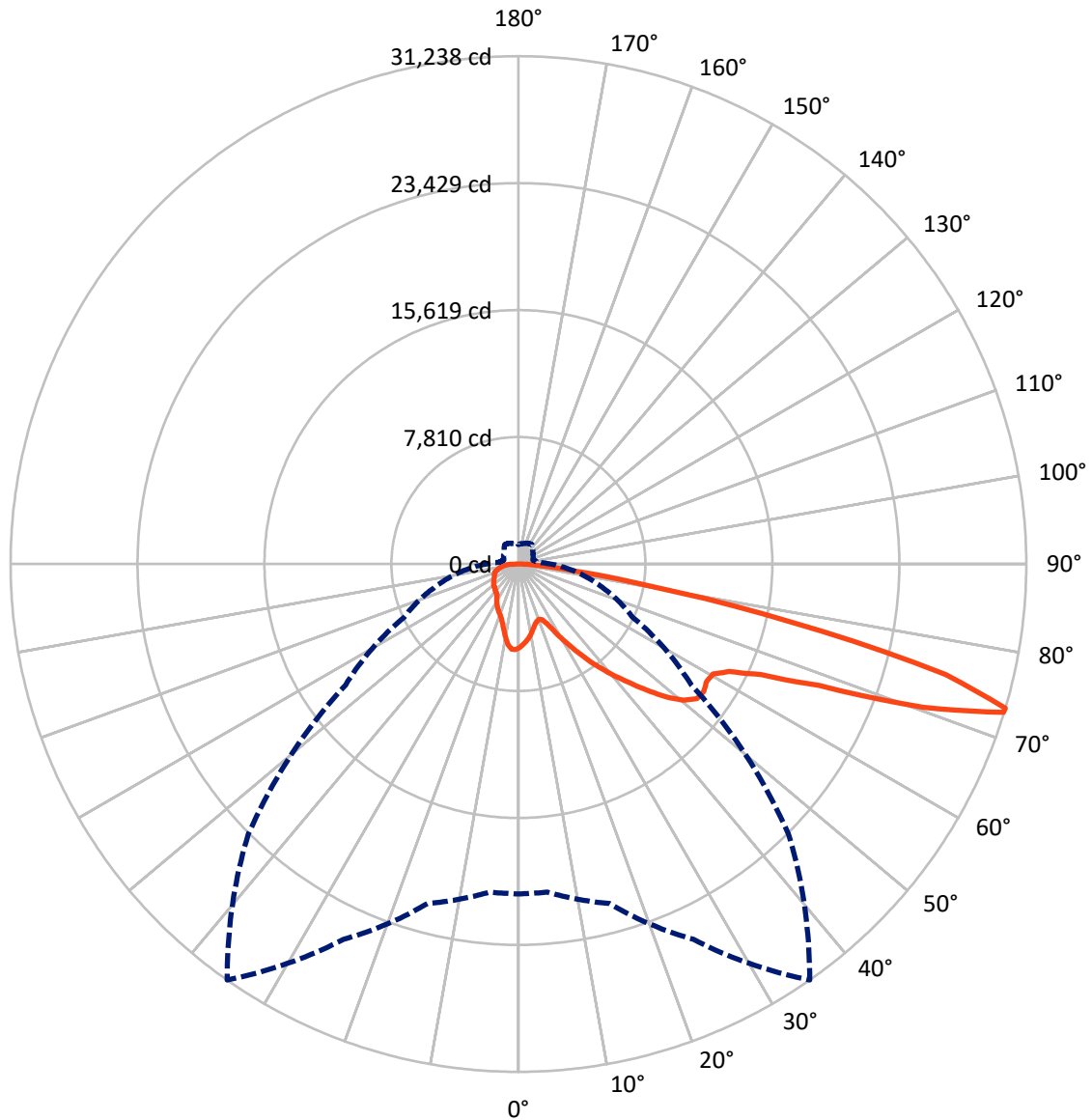


Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Non-Cutoff

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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	6510.5	0.0	6510.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	27624.5	0.0	27624.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	34134.9	0.0	34134.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.4	1.4
10°-20°	1164.1	3.4
20°-30°	1881.9	5.5
30°-40°	3155.7	9.2
40°-50°	4864.3	14.3
50°-60°	6526.0	19.1
60°-70°	8694.0	25.5
70°-80°	6630.9	19.4
80°-90°	751.6	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°	34134.9	100.0
0°-180°	34134.9	100.0



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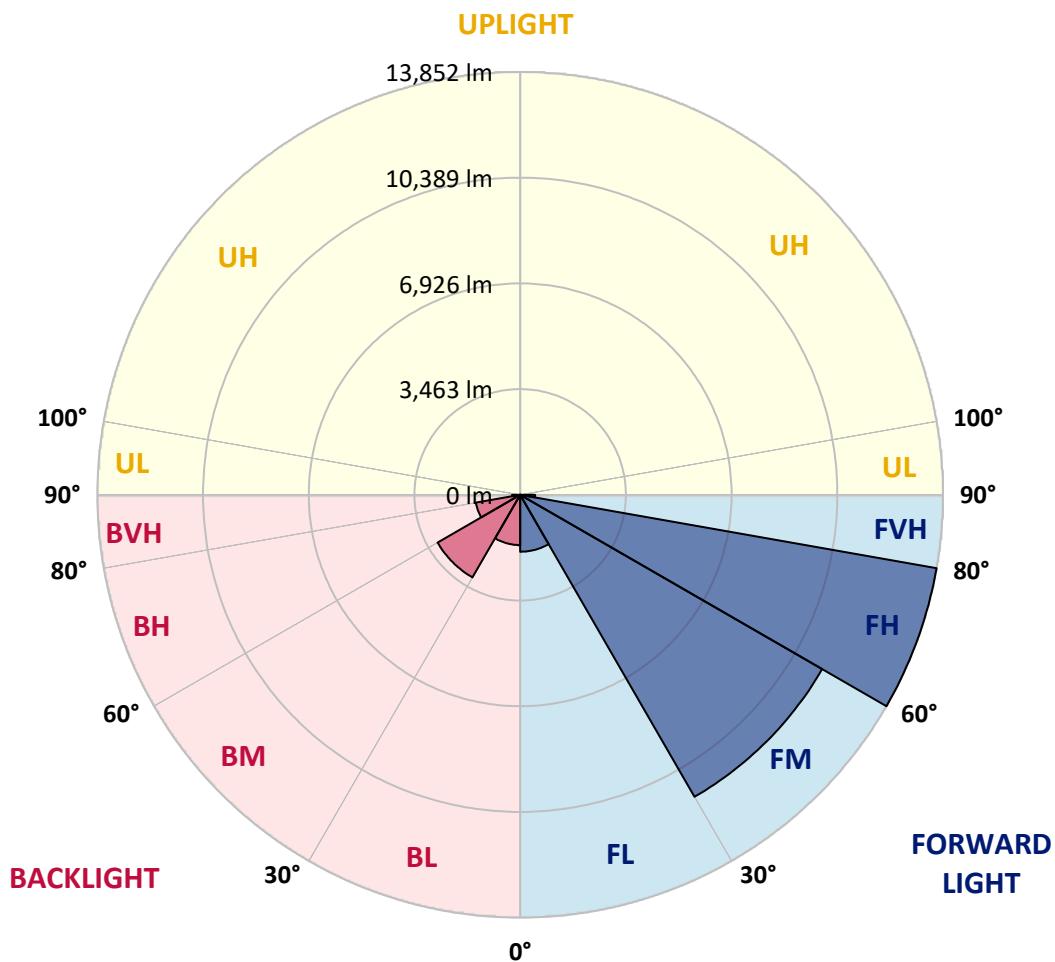
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1864.9	5.5			
FM	(30°-60°)	11421.8	33.5			
FH	(60°-80°)	13851.9	40.6			G5
FVH	(80°-90°)	485.8	1.4			G3/500
BL	(0°-30°)	1647.5	4.8	B3/2500		
BM	(30°-60°)	3124.3	9.2	B3/5000		
BH	(60°-80°)	1472.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	265.8	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°	5152.0	5152.0	5152.0	5152.0	5152.0	5152.0	5152.0	5152.0	5152.0	5152.0	5152.0
2.5°	4948.8	4958.6	4947.1	4961.9	4986.4	5012.7	5030.7	5057.0	5086.5	5127.4	5137.2
5°	4716.0	4730.7	4730.7	4757.0	4804.6	4847.2	4886.5	4929.1	4991.4	5061.9	5089.7
7.5°	4460.3	4468.4	4483.3	4522.5	4591.3	4652.1	4707.7	4776.6	4861.8	4955.3	5004.5
10°	4152.1	4163.6	4186.6	4242.2	4335.7	4419.3	4499.6	4594.7	4702.8	4819.2	4881.6
12.5°	3934.0	3930.9	3940.7	3981.6	4063.7	4165.3	4281.6	4403.0	4535.7	4671.7	4747.2
15°	3860.3	3842.3	3804.6	3794.8	3839.0	3940.7	4075.2	4224.2	4383.2	4547.2	4640.6
17.5°	3906.2	3875.1	3771.9	3696.4	3689.9	3767.0	3909.6	4076.7	4260.3	4460.3	4576.7
20°	4194.7	4121.0	3866.8	3691.4	3630.8	3668.6	3793.2	3970.1	4186.6	4452.1	4601.3
22.5°	4884.9	4776.6	4237.3	3911.1	3706.2	3660.4	3753.7	3942.3	4194.7	4553.7	4743.9
25°	5889.6	5735.6	4873.3	4458.6	4035.7	3791.4	3812.8	4006.3	4311.1	4789.8	5019.3
27.5°	6683.0	6583.0	5704.4	5230.7	4635.7	4145.6	4004.6	4166.9	4548.7	5176.7	5411.0
30°	7155.1	7094.5	6592.9	6106.0	5401.1	4709.5	4371.7	4468.4	4920.8	5712.6	5906.0
32.5°	7702.6	7666.6	7420.7	6973.3	6227.3	5450.3	4953.7	4919.3	5419.3	6356.9	6445.3
35°	8269.7	8258.3	8114.1	7792.7	7114.1	6427.4	5725.7	5493.0	5961.8	7025.6	6969.9
37.5°	8797.6	8778.0	8694.3	8507.5	8041.9	7476.5	6512.5	6081.4	6546.9	7664.9	7417.5
40°	9769.6	9615.5	9328.7	9187.8	8979.5	8359.9	7137.2	6630.6	7153.6	8274.6	7804.3
42.5°	10954.8	10704.1	10169.6	9976.1	9946.8	9056.6	7563.3	7163.4	7764.9	8879.6	8184.5
45°	11887.5	11651.5	11190.8	10946.7	11054.8	9687.7	7991.1	7732.2	8394.4	9513.9	8576.3
47.5°	12882.6	12512.0	11902.3	11976.1	12212.1	10284.3	8427.2	8343.5	9084.5	10223.7	9063.2
50°	12918.5	12635.0	12367.9	12808.8	13175.9	10833.5	8973.0	8984.5	9928.6	11117.1	9710.7
52.5°	12169.5	12108.9	12533.3	13226.7	13756.3	11267.9	9594.3	9646.7	11008.9	12143.3	10422.0
55°	11907.3	11838.4	12328.5	13080.8	13834.8	11626.9	10267.9	10363.0	12315.4	13225.0	11115.4
57.5°	12546.4	12394.0	12426.9	13011.9	13643.1	12020.3	11002.4	11194.0	13734.9	14170.9	11561.4
60°	14333.3	14007.0	13387.4	13372.7	13746.4	12610.3	11851.5	12085.8	15210.2	14623.4	11387.5
62.5°	16839.5	16513.4	15352.8	14597.1	14541.5	13584.1	12894.0	12956.3	16062.6	14010.2	10326.9
65°	19552.5	19260.6	17964.0	16896.8	16382.2	15197.0	14105.4	13344.9	15783.8	12323.6	8471.5
67.5°	22845.7	22532.5	21417.8	20432.7	19937.6	17800.2	14956.2	12972.7	14015.1	9546.7	6089.6
70°	25148.7	24829.1	24389.7	25188.0	26399.4	21555.5	15066.0	11459.7	10467.9	6345.4	3665.3
72.5°	22143.9	21994.9	22796.5	26158.5	31204.0	23834.0	13618.6	8343.5	6079.8	3368.6	2121.2
73°	20288.4	20255.6	21622.7	25478.2	31238.3	23483.2	12984.1	7755.1	5214.3	2980.0	1939.3
75°	9161.5	9425.5	12421.9	19460.6	27140.3	19350.7	9138.5	4448.8	2945.6	2058.8	1463.8
77.5°	2201.4	2293.3	3886.5	9241.9	17139.5	11531.8	4140.6	2199.8	1883.4	1453.9	1068.8
80°	937.7	968.7	1496.5	3414.5	8069.8	4643.9	1908.0	1473.7	1303.3	1014.6	749.1
82.5°	521.2	554.1	849.1	1549.0	3257.2	1583.4	1163.8	1026.1	857.3	611.4	486.8
85°	295.1	313.1	496.8	865.4	1380.2	636.0	696.6	682.0	483.6	314.8	239.3
87.5°	139.3	150.8	239.3	401.6	540.9	249.2	354.0	390.1	303.3	191.8	124.5
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°	5152.0	5152.0	5152.0	5152.0	5152.0	5152.0	5152.0	5152.0	5152.0	5152.0
2.5°	5148.7	5178.3	5212.7	5230.7	5247.1	5266.8	5286.4	5286.4	5289.7	5291.3
5°	5112.7	5173.2	5227.4	5250.4	5255.3	5255.3	5250.4	5224.2	5201.1	5211.1
7.5°	5037.2	5125.8	5171.7	5163.5	5101.3	5029.2	4968.4	4894.7	4857.0	4850.4
10°	4929.1	5030.7	5039.0	4956.9	4802.9	4648.8	4520.9	4396.3	4337.3	4322.6
12.5°	4809.4	4902.9	4850.4	4681.5	4434.0	4209.5	4047.3	3921.0	3865.2	3850.4
15°	4712.7	4776.6	4643.9	4378.2	4066.8	3829.1	3694.8	3601.3	3562.0	3550.6
17.5°	4661.9	4675.0	4432.3	4073.5	3742.2	3544.0	3460.5	3416.2	3401.3	3393.2
20°	4686.5	4594.7	4230.7	3789.9	3476.8	3337.5	3317.8	3306.3	3303.0	3298.0
22.5°	4809.4	4570.0	4045.5	3520.9	3244.0	3183.4	3199.8	3198.1	3194.8	3191.6
25°	5029.2	4591.3	3865.2	3265.2	3048.8	3035.8	3065.3	3065.3	3052.3	3052.3
27.5°	5319.3	4635.7	3663.6	3022.6	2871.9	2873.5	2896.4	2889.8	2875.1	2865.4
30°	5673.2	4663.6	3427.7	2804.7	2706.4	2699.8	2706.4	2678.4	2634.2	2631.0
32.5°	6035.5	4629.1	3153.8	2611.3	2531.0	2516.2	2511.2	2472.0	2421.1	2406.4
35°	6363.5	4502.9	2875.1	2457.1	2363.7	2330.9	2353.9	2340.9	2294.9	2283.4
37.5°	6602.7	4268.4	2624.4	2321.1	2244.1	2235.9	2250.7	2255.6	2201.4	2190.0
40°	6763.3	3950.4	2409.7	2206.3	2221.1	2190.0	2140.8	2106.3	2089.9	2085.1
42.5°	6892.9	3619.5	2229.4	2152.2	2226.0	2135.9	2029.4	1973.5	2003.1	2016.2
45°	7042.1	3296.4	2078.5	2085.1	2201.4	2073.6	1952.2	1898.2	1909.6	1912.9
47.5°	7246.9	2903.1	1916.3	1976.9	2119.6	2031.0	1904.8	1827.7	1773.7	1749.0
50°	7530.5	2437.6	1747.5	1855.5	2039.2	1999.8	1830.9	1749.0	1649.1	1626.1
52.5°	7727.2	2003.1	1608.1	1753.9	1967.1	1937.6	1771.9	1665.5	1560.5	1540.9
55°	7620.7	1663.8	1486.8	1640.8	1872.0	1860.5	1722.8	1580.2	1498.3	1481.8
57.5°	7087.9	1449.1	1393.4	1534.2	1755.6	1795.0	1657.3	1508.1	1449.1	1437.6
60°	6071.6	1314.6	1334.3	1462.3	1660.4	1729.3	1591.6	1468.6	1429.5	1421.2
62.5°	4711.2	1224.5	1290.1	1409.7	1586.8	1683.5	1555.7	1463.8	1449.1	1439.3
65°	3375.1	1152.3	1242.5	1357.2	1519.6	1640.8	1542.5	1457.2	1460.6	1452.3
67.5°	2293.3	1088.4	1185.1	1298.2	1453.9	1603.1	1524.5	1434.4	1475.2	1465.5
70°	1604.8	1026.1	1117.9	1222.9	1372.0	1550.7	1491.6	1399.9	1396.7	1357.2
72.5°	1252.3	944.2	1026.1	1117.9	1267.1	1477.0	1426.1	1322.8	1268.8	1227.8
73°	1194.9	924.5	1003.1	1094.9	1244.2	1458.8	1408.1	1301.6	1240.9	1203.2
75°	988.5	839.2	911.4	993.3	1145.8	1373.7	1319.6	1204.7	1127.8	1104.8
77.5°	776.9	717.9	786.8	860.5	1009.8	1249.1	1188.4	1078.5	1035.9	1016.3
80°	575.4	595.0	655.8	721.2	875.4	1116.4	1062.2	952.4	1142.6	1094.9
82.5°	404.9	450.8	506.6	565.6	734.4	986.8	921.2	808.1	836.1	695.0
85°	239.3	295.1	347.6	398.3	529.6	817.9	760.5	644.3	527.8	503.2
87.5°	139.3	163.9	178.7	231.1	364.0	616.3	536.0	477.0	273.8	185.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)