

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: P269594

Luminaire Tested: **GLEON-AF-08-LED-E1-T4FT-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269594
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-08-LED-E1-T4FT-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA 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: 27471.6 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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

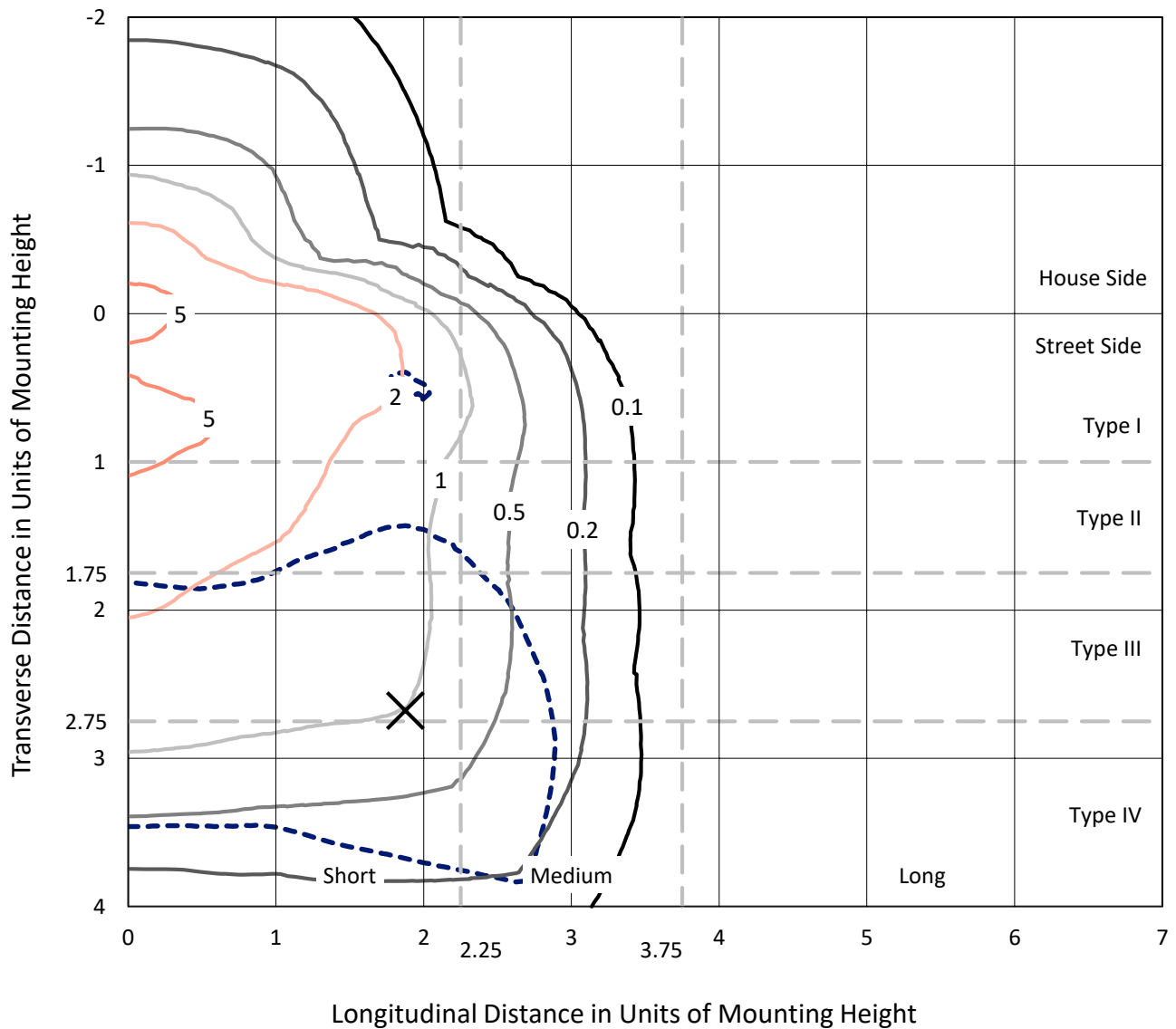


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

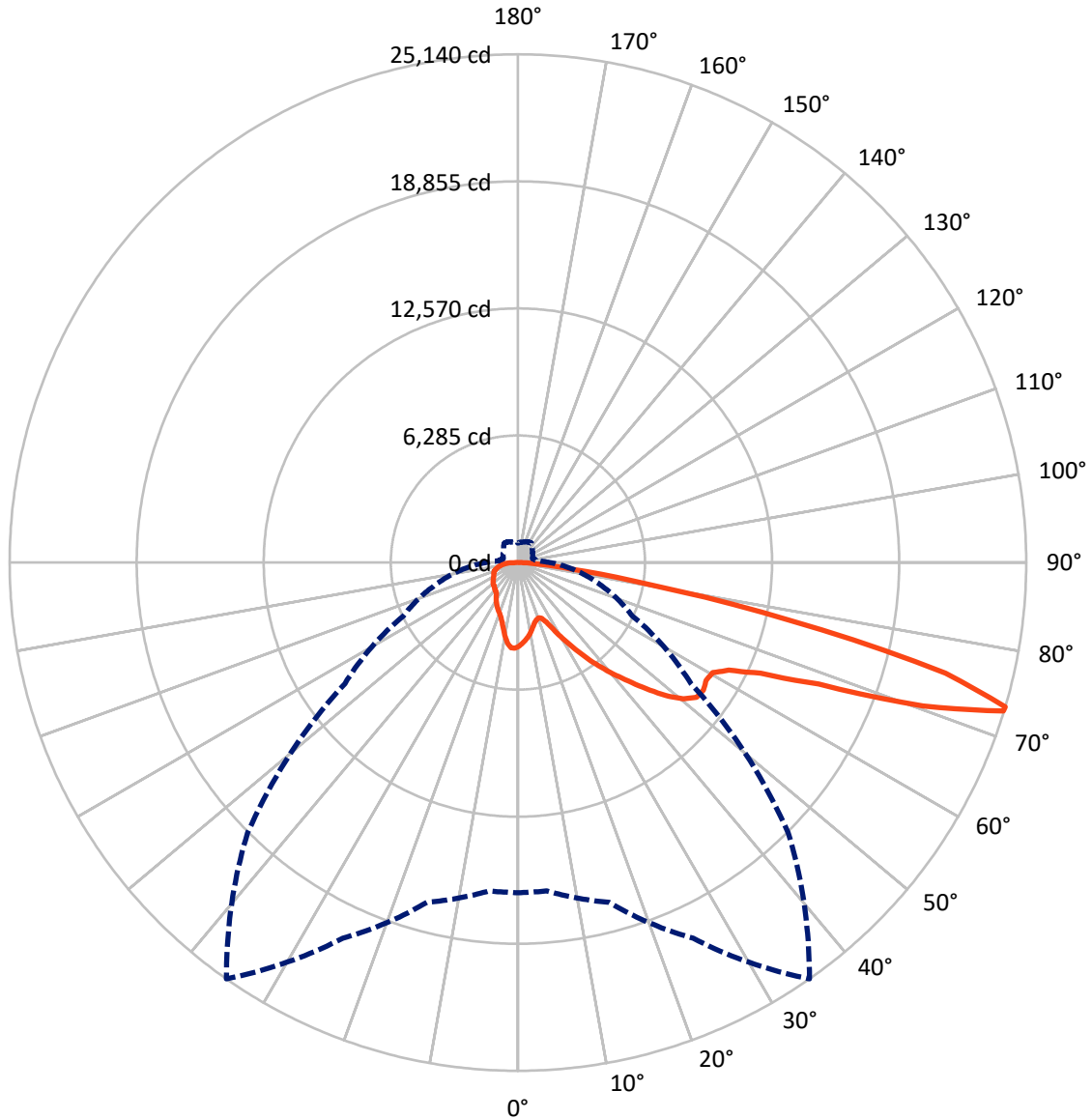


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Non-Cutoff

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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	5239.6	0.0	5239.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	22232.1	0.0	22232.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	27471.6	0.0	27471.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.4	1.4
10°-20°	936.8	3.4
20°-30°	1514.5	5.5
30°-40°	2539.7	9.2
40°-50°	3914.8	14.3
50°-60°	5252.1	19.1
60°-70°	6996.9	25.5
70°-80°	5336.5	19.4
80°-90°	604.9	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°	27471.6	100.0
0°-180°	27471.6	100.0



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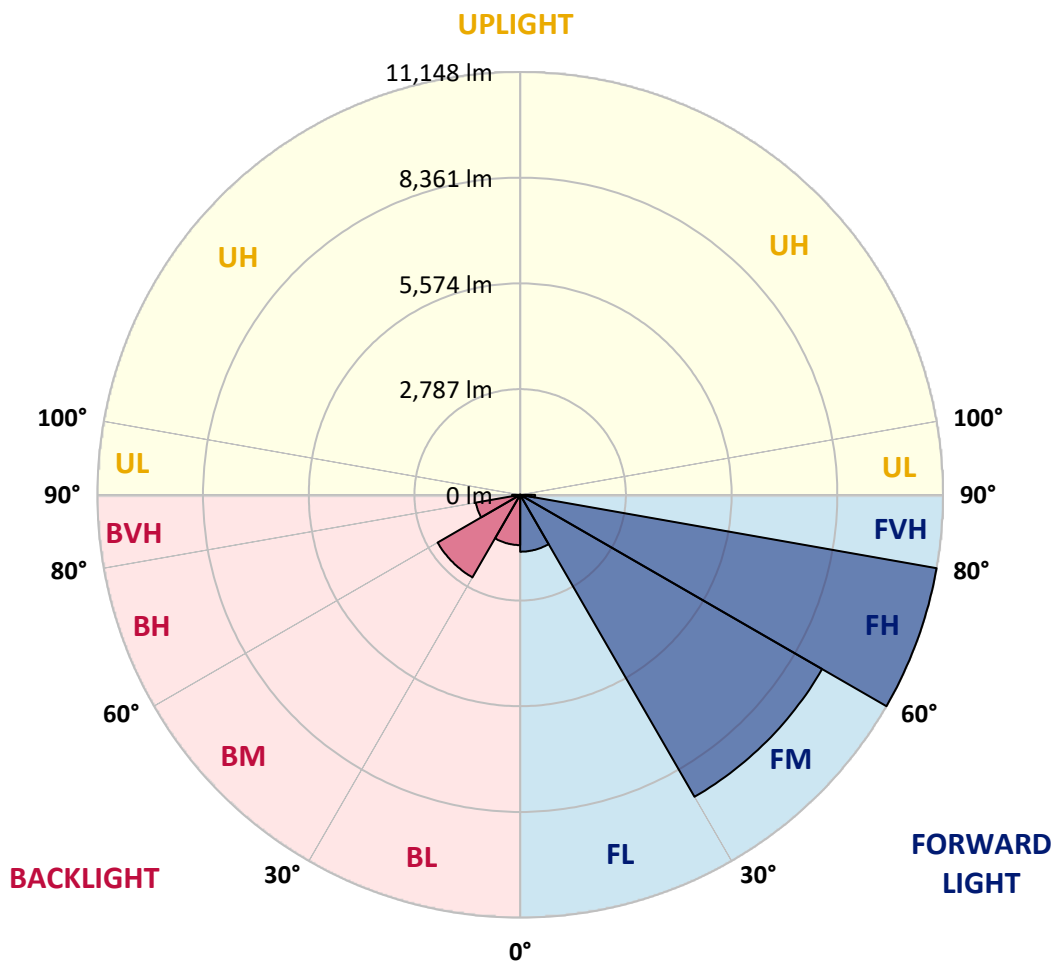
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1500.9	5.5			
FM	(30°-60°)	9192.2	33.5			
FH	(60°-80°)	11148.0	40.6			G4/12000
FVH	(80°-90°)	391.0	1.4			G3/500
BL	(0°-30°)	1325.9	4.8	B3/2500		
BM	(30°-60°)	2514.4	9.2	B3/5000		
BH	(60°-80°)	1185.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	213.9	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3
2.5°	3982.7	3990.7	3981.4	3993.2	4013.1	4034.2	4048.8	4069.9	4093.5	4126.5	4134.4
5°	3795.3	3807.2	3807.2	3828.3	3866.7	3901.0	3932.6	3966.9	4017.0	4073.8	4096.2
7.5°	3589.5	3596.3	3608.1	3639.8	3695.2	3744.0	3788.8	3844.2	3912.8	3988.0	4027.6
10°	3341.5	3350.9	3369.4	3414.2	3489.3	3556.6	3621.2	3697.9	3784.9	3878.5	3928.6
12.5°	3166.2	3163.6	3171.5	3204.4	3270.4	3352.1	3445.8	3543.5	3650.4	3759.8	3820.5
15°	3106.8	3092.2	3062.0	3054.0	3089.6	3171.5	3279.6	3399.6	3527.6	3659.5	3734.8
17.5°	3143.7	3118.6	3035.6	2974.8	2969.5	3031.6	3146.4	3280.9	3428.7	3589.5	3683.3
20°	3375.9	3316.5	3112.1	2971.0	2922.0	2952.4	3052.7	3195.2	3369.4	3583.0	3703.1
22.5°	3931.3	3844.2	3410.1	3147.8	2982.7	2945.8	3021.0	3172.8	3375.9	3664.8	3817.8
25°	4739.9	4616.0	3922.1	3588.3	3247.9	3051.4	3068.5	3224.1	3469.6	3854.7	4039.5
27.5°	5378.5	5298.1	4590.9	4209.6	3730.8	3336.3	3222.8	3353.5	3660.9	4166.1	4354.8
30°	5758.4	5709.5	5305.8	4914.1	4346.9	3790.0	3518.4	3596.3	3960.3	4597.4	4753.2
32.5°	6199.1	6170.0	5972.1	5612.0	5011.7	4386.5	3986.7	3959.0	4361.5	5115.9	5187.3
35°	6655.5	6646.3	6530.1	6271.5	5725.4	5172.7	4608.0	4420.6	4798.0	5654.2	5609.3
37.5°	7080.4	7064.5	6997.2	6846.8	6472.1	6016.9	5241.3	4894.3	5269.0	6168.8	5969.4
40°	7862.5	7738.5	7507.8	7394.3	7226.8	6728.0	5743.9	5336.3	5757.1	6659.5	6280.8
42.5°	8816.3	8614.6	8184.5	8028.8	8005.1	7288.7	6086.9	5765.1	6249.1	7146.2	6586.9
45°	9566.9	9377.0	9006.3	8809.8	8896.9	7796.6	6431.2	6222.7	6755.8	7656.9	6902.1
47.5°	10367.8	10069.6	9578.8	9638.3	9828.3	8276.9	6782.2	6714.9	7311.1	8228.0	7294.0
50°	10396.9	10168.6	9953.6	10308.4	10604.0	8718.8	7221.5	7230.6	7990.6	8946.9	7815.2
52.5°	9794.0	9745.2	10086.8	10644.8	11070.9	9068.4	7721.4	7763.6	8860.0	9772.8	8387.7
55°	9582.8	9527.5	9921.9	10527.4	11134.2	9357.3	8263.7	8340.1	9911.4	10643.5	8945.7
57.5°	10097.4	9974.7	10001.1	10472.0	10980.0	9673.8	8854.7	9009.0	11053.9	11404.7	9304.6
60°	11535.3	11272.8	10774.1	10762.2	11063.0	10148.8	9538.1	9726.7	12241.2	11768.9	9164.7
62.5°	13552.4	13289.9	12355.8	11747.8	11702.8	10932.5	10377.0	10427.2	12927.1	11275.4	8311.1
65°	15735.7	15501.0	14457.4	13598.6	13184.3	12230.6	11351.9	10739.9	12702.8	9917.9	6817.7
67.5°	18386.1	18134.1	17236.9	16444.2	16045.7	14325.5	12036.6	10440.3	11279.4	7683.2	4901.0
70°	20239.5	19982.3	19628.8	20271.2	21246.2	17347.8	12125.1	9222.7	8424.6	5106.8	2949.8
72.5°	17821.5	17701.5	18346.4	21052.1	25112.7	19181.6	10960.1	6714.9	4893.0	2711.1	1707.0
73°	16328.0	16301.7	17402.0	20504.7	25140.4	18899.3	10449.7	6241.2	4196.4	2398.4	1560.6
75°	7373.2	7585.6	9997.1	15661.9	21842.4	15573.5	7354.8	3580.4	2370.6	1657.0	1178.0
77.5°	1771.6	1845.6	3127.9	7437.7	13793.8	9280.7	3332.4	1770.4	1515.8	1170.1	860.1
80°	754.5	779.6	1204.4	2747.9	6494.6	3737.4	1535.7	1186.0	1048.9	816.6	602.9
82.5°	419.5	445.9	683.4	1246.7	2621.3	1274.3	936.7	825.8	690.0	492.1	391.8
85°	237.4	252.0	399.7	696.5	1110.8	511.9	560.6	548.9	389.1	253.3	192.5
87.5°	112.1	121.5	192.5	323.2	435.4	200.5	284.9	314.0	244.1	154.4	100.3
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°	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3
2.5°	4143.7	4167.4	4195.2	4209.6	4222.8	4238.7	4254.6	4254.6	4257.2	4258.4
5°	4114.6	4163.5	4207.0	4225.4	4229.4	4229.4	4225.4	4204.3	4185.9	4193.7
7.5°	4054.1	4125.2	4162.1	4155.6	4105.4	4047.5	3998.5	3939.2	3908.9	3903.6
10°	3966.9	4048.8	4055.3	3989.4	3865.3	3741.4	3638.4	3538.2	3490.6	3478.7
12.5°	3870.5	3945.9	3903.6	3767.8	3568.4	3387.8	3257.2	3155.6	3110.7	3098.9
15°	3792.7	3844.2	3737.4	3523.6	3273.1	3081.7	2973.5	2898.3	2866.8	2857.5
17.5°	3752.0	3762.5	3567.2	3278.3	3011.7	2852.2	2784.8	2749.3	2737.3	2730.8
20°	3771.7	3697.9	3404.9	3050.0	2798.1	2685.9	2670.1	2660.9	2658.3	2654.3
22.5°	3870.5	3678.0	3255.8	2833.8	2610.7	2562.0	2575.1	2573.9	2571.2	2568.6
25°	4047.5	3695.2	3110.7	2627.9	2453.8	2443.2	2466.9	2466.9	2456.3	2456.3
27.5°	4281.0	3730.8	2948.4	2432.7	2311.2	2312.5	2331.1	2325.8	2313.9	2305.9
30°	4565.8	3753.2	2758.4	2257.3	2178.0	2172.8	2178.0	2155.7	2120.0	2117.3
32.5°	4857.3	3725.5	2538.3	2101.6	2036.8	2025.0	2021.0	1989.3	1948.6	1936.7
35°	5121.2	3623.9	2313.9	1977.4	1902.3	1875.9	1894.4	1883.8	1846.9	1837.8
37.5°	5313.8	3435.3	2112.1	1868.0	1806.0	1799.5	1811.3	1815.2	1771.6	1762.5
40°	5443.1	3179.3	1939.4	1775.7	1787.5	1762.5	1722.9	1695.2	1681.9	1678.0
42.5°	5547.4	2912.8	1794.2	1732.1	1791.5	1718.9	1633.2	1588.4	1612.1	1622.7
45°	5667.3	2653.0	1672.7	1678.0	1771.6	1668.8	1571.1	1527.7	1536.9	1539.5
47.5°	5832.2	2336.3	1542.2	1591.0	1705.7	1634.6	1533.0	1471.0	1427.3	1407.6
50°	6060.5	1961.7	1406.2	1493.3	1641.2	1609.5	1473.6	1407.6	1327.2	1308.7
52.5°	6218.8	1612.1	1294.2	1411.5	1583.1	1559.3	1426.1	1340.4	1255.9	1240.1
55°	6133.1	1339.1	1196.5	1320.6	1506.5	1497.4	1386.5	1271.7	1205.7	1192.6
57.5°	5704.3	1166.2	1121.4	1234.8	1412.9	1444.6	1333.8	1213.7	1166.2	1156.9
60°	4886.4	1058.1	1073.8	1176.8	1336.4	1391.7	1281.0	1182.0	1150.4	1143.7
62.5°	3791.4	985.5	1038.3	1134.5	1277.0	1354.9	1252.0	1178.0	1166.2	1158.3
65°	2716.2	927.4	1000.0	1092.2	1223.0	1320.6	1241.4	1172.7	1175.4	1168.9
67.5°	1845.6	875.9	953.8	1044.8	1170.1	1290.1	1226.8	1154.3	1187.3	1179.4
70°	1291.6	825.8	899.7	984.2	1104.1	1247.9	1200.5	1126.7	1124.0	1092.2
72.5°	1007.9	759.8	825.8	899.7	1019.8	1188.5	1147.8	1064.6	1021.1	988.0
73°	961.7	744.1	807.3	881.2	1001.3	1174.2	1133.2	1047.5	998.6	968.4
75°	795.4	675.4	733.5	799.4	922.1	1105.5	1061.9	969.6	907.6	889.1
77.5°	625.3	577.8	633.2	692.7	812.6	1005.3	956.4	868.0	833.7	817.9
80°	463.0	478.8	527.7	580.5	704.5	898.3	854.8	766.4	919.4	881.2
82.5°	325.8	362.7	407.7	455.1	591.1	794.2	741.5	650.4	672.8	559.4
85°	192.5	237.4	279.7	320.5	426.1	658.3	612.1	518.4	424.8	405.0
87.5°	112.1	132.0	143.8	185.9	292.8	496.0	431.4	383.8	220.4	149.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)