

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: P269434

Luminaire Tested: **GLEON-AF-06-LED-E1-T4FT-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269434
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-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 20501.2 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 193
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

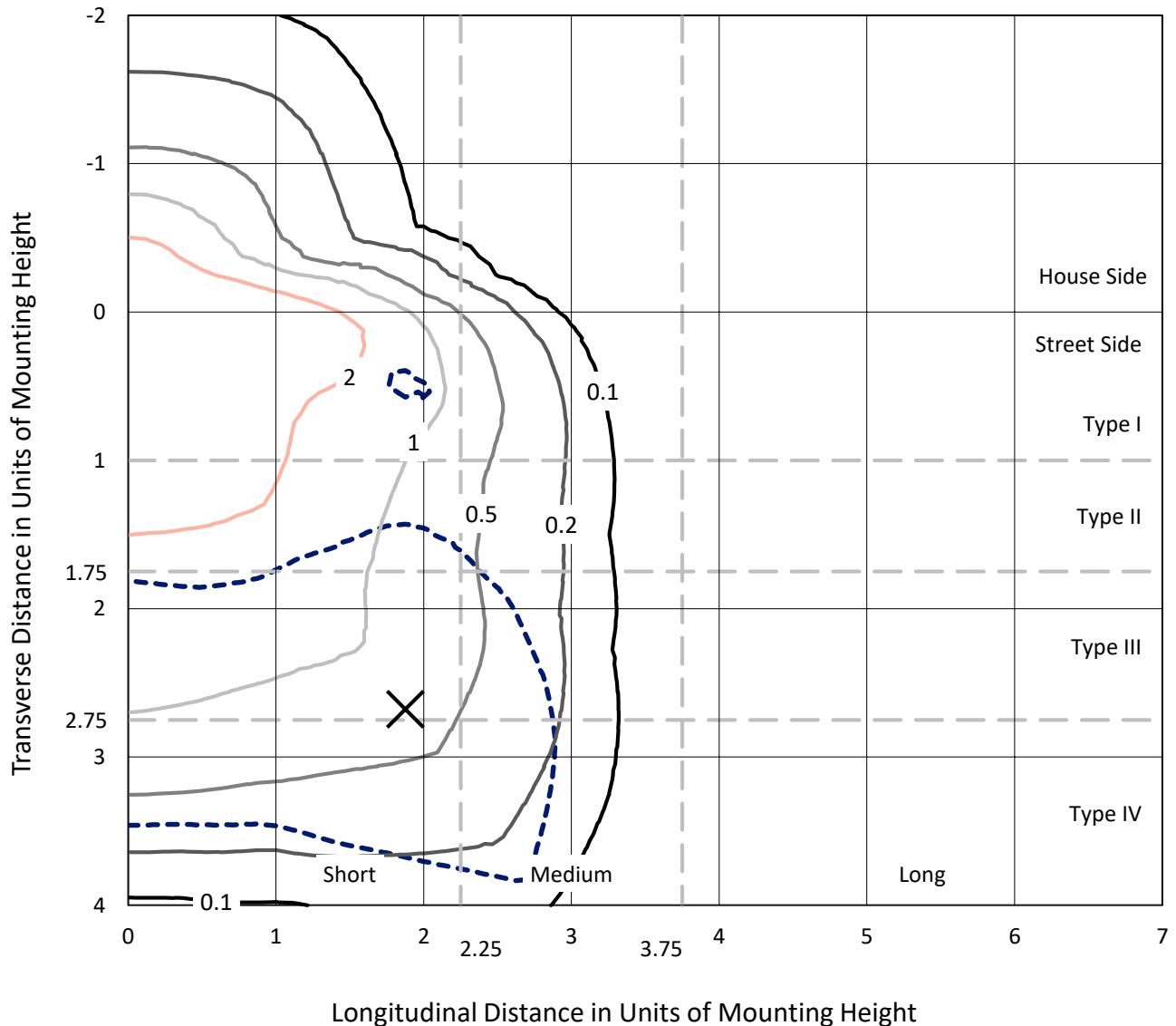


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

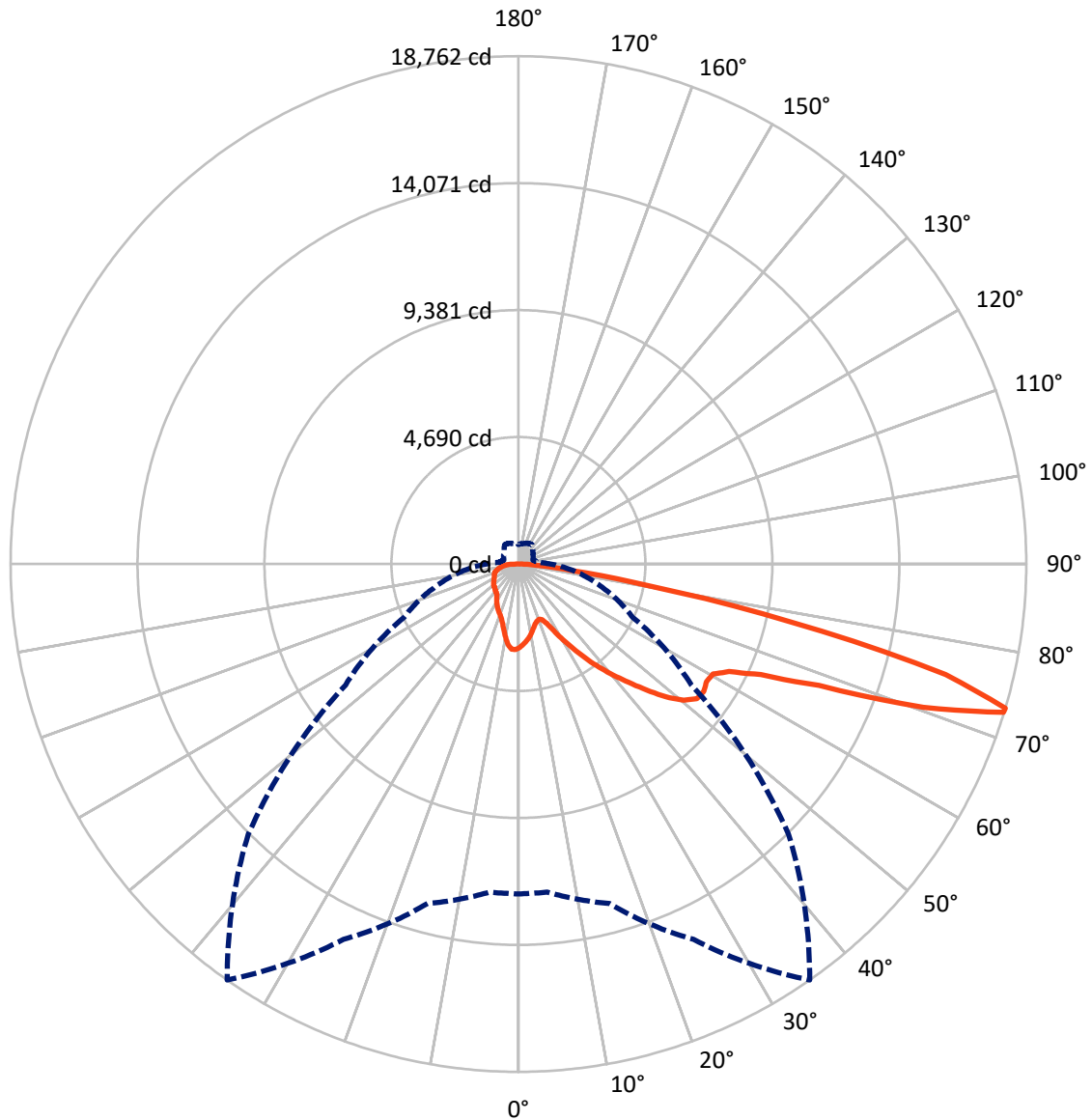


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Non-Cutoff

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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	3910.1	0.0	3910.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	16591.0	0.0	16591.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	20501.2	0.0	20501.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.1	1.4
10°-20°	699.1	3.4
20°-30°	1130.3	5.5
30°-40°	1895.3	9.2
40°-50°	2921.5	14.3
50°-60°	3919.5	19.1
60°-70°	5221.5	25.5
70°-80°	3982.5	19.4
80°-90°	451.4	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°	20501.2	100.0
0°-180°	20501.2	100.0



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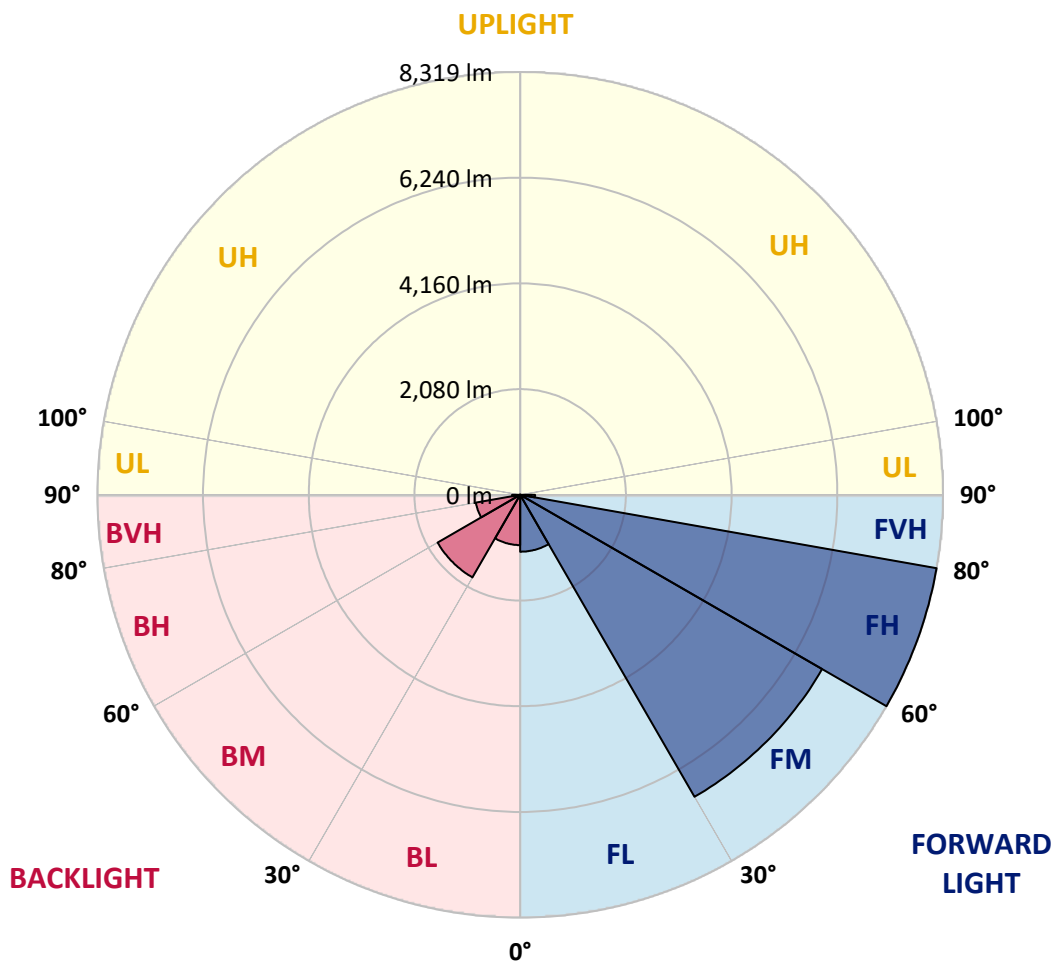
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1120.1	5.5			
FM	(30°-60°)	6859.8	33.5			
FH	(60°-80°)	8319.4	40.6			G4/12000
FVH	(80°-90°)	291.8	1.4			G3/500
BL	(0°-30°)	989.5	4.8	B2/1000		
BM	(30°-60°)	1876.4	9.2	B2/2500		
BH	(60°-80°)	884.6	4.3	B2/1000		G2/1000
BVH	(80°-90°)	159.6	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3094.2	3094.2	3094.2	3094.2	3094.2	3094.2	3094.2	3094.2	3094.2	3094.2	3094.2
2.5°	2972.2	2978.2	2971.2	2980.0	2994.8	3010.6	3021.4	3037.2	3054.9	3079.5	3085.4
5°	2832.4	2841.2	2841.2	2857.0	2885.5	2911.1	2934.9	2960.4	2997.7	3040.1	3056.8
7.5°	2678.8	2683.7	2692.6	2716.2	2757.5	2794.0	2827.4	2868.7	2920.0	2976.2	3005.6
10°	2493.8	2500.6	2514.4	2547.9	2603.9	2654.2	2702.5	2759.6	2824.5	2894.3	2931.8
12.5°	2362.8	2360.8	2366.8	2391.4	2440.5	2501.6	2571.5	2644.3	2724.1	2805.8	2851.1
15°	2318.4	2307.7	2285.0	2279.1	2305.7	2366.8	2447.4	2537.1	2632.6	2730.9	2787.1
17.5°	2346.1	2327.4	2265.3	2220.0	2216.1	2262.4	2348.0	2448.4	2558.7	2678.8	2748.8
20°	2519.3	2475.0	2322.4	2217.0	2180.6	2203.4	2278.1	2384.5	2514.4	2673.8	2763.5
22.5°	2933.8	2868.7	2544.9	2349.0	2225.9	2198.4	2254.4	2367.8	2519.3	2734.9	2849.2
25°	3537.3	3444.7	2926.9	2677.8	2423.8	2277.2	2289.9	2406.1	2589.3	2876.7	3014.5
27.5°	4013.7	3953.7	3426.0	3141.6	2784.1	2489.8	2405.1	2502.6	2731.9	3109.0	3249.8
30°	4297.3	4260.9	3959.5	3667.2	3243.9	2828.5	2625.7	2683.7	2955.5	3430.9	3547.1
32.5°	4626.1	4604.5	4456.9	4188.1	3740.2	3273.5	2975.1	2954.4	3254.6	3817.8	3871.1
35°	4966.8	4959.9	4873.2	4680.3	4272.7	3860.1	3438.8	3299.0	3580.6	4219.6	4186.1
37.5°	5283.8	5272.0	5221.8	5109.5	4829.9	4490.3	3911.4	3652.5	3932.2	4603.5	4454.9
40°	5867.5	5775.1	5602.8	5518.1	5393.1	5020.9	4286.5	3982.2	4296.4	4969.8	4687.1
42.5°	6579.4	6428.7	6107.8	5991.6	5973.9	5439.3	4542.5	4302.3	4663.6	5333.0	4915.5
45°	7139.5	6997.7	6721.2	6574.4	6639.5	5818.3	4799.5	4643.9	5041.6	5713.9	5150.9
47.5°	7737.1	7514.6	7148.4	7192.6	7334.5	6176.7	5061.3	5011.0	5456.0	6140.3	5443.3
50°	7758.8	7588.5	7428.1	7692.8	7913.3	6506.6	5389.1	5395.9	5963.0	6676.8	5832.2
52.5°	7308.9	7272.5	7527.4	7943.9	8261.9	6767.4	5762.3	5793.8	6611.9	7293.1	6259.4
55°	7151.3	7110.1	7404.4	7856.2	8309.1	6983.1	6166.9	6223.9	7396.6	7943.0	6675.8
57.5°	7535.3	7443.7	7463.5	7815.0	8193.9	7219.3	6607.9	6723.2	8249.0	8510.9	6943.7
60°	8608.4	8412.4	8040.4	8031.4	8256.0	7573.7	7117.9	7258.7	9135.1	8782.6	6839.2
62.5°	10113.7	9917.7	9220.8	8766.9	8733.4	8158.4	7744.0	7781.5	9647.1	8414.5	6202.3
65°	11743.1	11567.8	10789.1	10148.2	9839.0	9127.3	8471.6	8014.8	9479.8	7401.4	5087.9
67.5°	13720.9	13532.8	12863.4	12271.7	11974.3	10690.5	8982.5	7791.3	8417.4	5733.7	3657.4
70°	15104.1	14912.1	14648.3	15127.7	15855.3	12946.2	9048.4	6882.6	6287.0	3811.0	2201.3
72.5°	13299.5	13209.9	13691.3	15710.5	18740.8	14314.5	8179.2	5011.0	3651.5	2023.2	1273.9
73°	12185.1	12165.3	12986.4	15302.0	18761.6	14103.8	7798.1	4657.6	3131.8	1789.9	1164.7
75°	5502.4	5660.8	7460.6	11687.8	16300.3	11621.9	5488.6	2671.9	1769.1	1236.5	879.1
77.5°	1322.1	1377.3	2334.2	5550.5	10293.9	6925.9	2486.9	1321.1	1131.1	873.2	641.8
80°	563.1	581.8	898.8	2050.7	4846.6	2789.1	1146.0	885.1	782.7	609.4	450.0
82.5°	313.1	332.7	510.0	930.4	1956.1	951.0	699.1	616.2	514.9	367.1	292.4
85°	177.2	188.0	298.2	519.8	829.0	382.0	418.4	409.5	290.4	189.1	143.6
87.5°	83.7	90.5	143.6	241.3	324.8	149.7	212.7	234.3	182.1	115.3	74.7
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°	3094.2	3094.2	3094.2	3094.2	3094.2	3094.2	3094.2	3094.2	3094.2	3094.2
2.5°	3092.2	3110.0	3130.8	3141.6	3151.3	3163.2	3175.0	3175.0	3176.9	3177.9
5°	3070.6	3107.1	3139.5	3153.3	3156.3	3156.3	3153.3	3137.6	3123.8	3129.8
7.5°	3025.3	3078.5	3106.1	3101.2	3063.8	3020.5	2984.0	2939.8	2917.1	2913.2
10°	2960.4	3021.4	3026.3	2977.2	2884.5	2792.0	2715.2	2640.4	2604.9	2596.1
12.5°	2888.5	2944.6	2913.2	2811.8	2663.0	2528.2	2430.8	2354.8	2321.4	2312.5
15°	2830.4	2868.7	2789.1	2629.6	2442.5	2299.8	2219.1	2162.8	2139.4	2132.3
17.5°	2799.8	2807.8	2662.0	2446.4	2247.6	2128.4	2078.3	2051.6	2042.8	2038.0
20°	2814.7	2759.6	2540.9	2276.1	2088.1	2004.4	1992.6	1985.8	1983.7	1980.9
22.5°	2888.5	2744.9	2429.7	2114.7	1948.3	1912.0	1921.7	1920.8	1918.8	1916.9
25°	3020.5	2757.5	2321.4	1961.1	1831.1	1823.3	1840.9	1840.9	1833.1	1833.1
27.5°	3194.7	2784.1	2200.4	1815.5	1724.8	1725.9	1739.6	1735.6	1726.8	1721.0
30°	3407.4	2800.8	2058.6	1684.5	1625.5	1621.5	1625.5	1608.7	1582.1	1580.1
32.5°	3624.9	2780.3	1894.2	1568.4	1520.0	1511.2	1508.3	1484.5	1454.0	1445.3
35°	3821.7	2704.3	1726.8	1475.7	1419.6	1400.0	1413.8	1405.8	1378.3	1371.4
37.5°	3965.6	2563.7	1576.2	1394.0	1347.7	1342.8	1351.7	1354.6	1322.1	1315.3
40°	4062.0	2372.7	1447.2	1325.1	1334.1	1315.3	1285.7	1265.1	1255.2	1252.2
42.5°	4139.7	2173.8	1339.0	1292.7	1336.9	1282.8	1218.8	1185.4	1203.1	1210.9
45°	4229.4	1979.9	1248.4	1252.2	1322.1	1245.4	1172.6	1140.0	1147.0	1148.9
47.5°	4352.5	1743.5	1150.9	1187.3	1273.0	1219.8	1144.0	1097.6	1065.2	1050.5
50°	4522.7	1464.0	1049.5	1114.4	1224.7	1201.0	1099.6	1050.5	990.4	976.5
52.5°	4641.0	1203.1	965.8	1053.4	1181.5	1163.7	1064.2	1000.3	937.2	925.4
55°	4577.0	999.3	892.9	985.5	1124.3	1117.4	1034.7	949.1	899.8	890.0
57.5°	4257.0	870.3	836.9	921.5	1054.4	1078.1	995.3	905.8	870.3	863.5
60°	3646.6	789.6	801.4	878.2	997.3	1038.6	955.9	882.1	858.5	853.6
62.5°	2829.4	735.4	774.8	846.7	953.0	1011.1	934.2	879.1	870.3	864.3
65°	2027.0	692.1	746.2	815.1	912.6	985.5	926.4	875.2	877.1	872.3
67.5°	1377.3	653.6	711.7	779.6	873.2	962.9	915.6	861.5	886.1	880.1
70°	963.8	616.2	671.5	734.5	824.0	931.4	895.9	840.8	838.7	815.1
72.5°	752.2	567.1	616.2	671.5	761.0	887.0	856.5	794.6	762.0	737.4
73°	717.7	555.2	602.6	657.6	747.2	876.1	845.7	781.6	745.2	722.6
75°	593.7	504.0	547.3	596.7	688.1	825.1	792.6	723.7	677.3	663.6
77.5°	466.7	431.1	472.6	516.9	606.4	750.2	713.8	647.8	622.2	610.4
80°	345.6	357.3	393.7	433.3	525.7	670.5	637.9	572.0	686.1	657.6
82.5°	243.3	270.7	304.2	339.6	441.1	592.6	553.3	485.4	502.2	417.4
85°	143.6	177.2	208.8	239.2	318.0	491.3	456.8	386.9	317.0	302.2
87.5°	83.7	98.5	107.3	138.8	218.6	370.2	322.0	286.5	164.4	111.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)