

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: P269355

Luminaire Tested: **GLEON-AF-05-LED-E1-T4FT-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269355
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-05-LED-E1-T4FT-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA 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: 21008.6 lumens
Efficiency: N/A
Efficacy: 100.0 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 - G4

Input Watts (W): 210
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

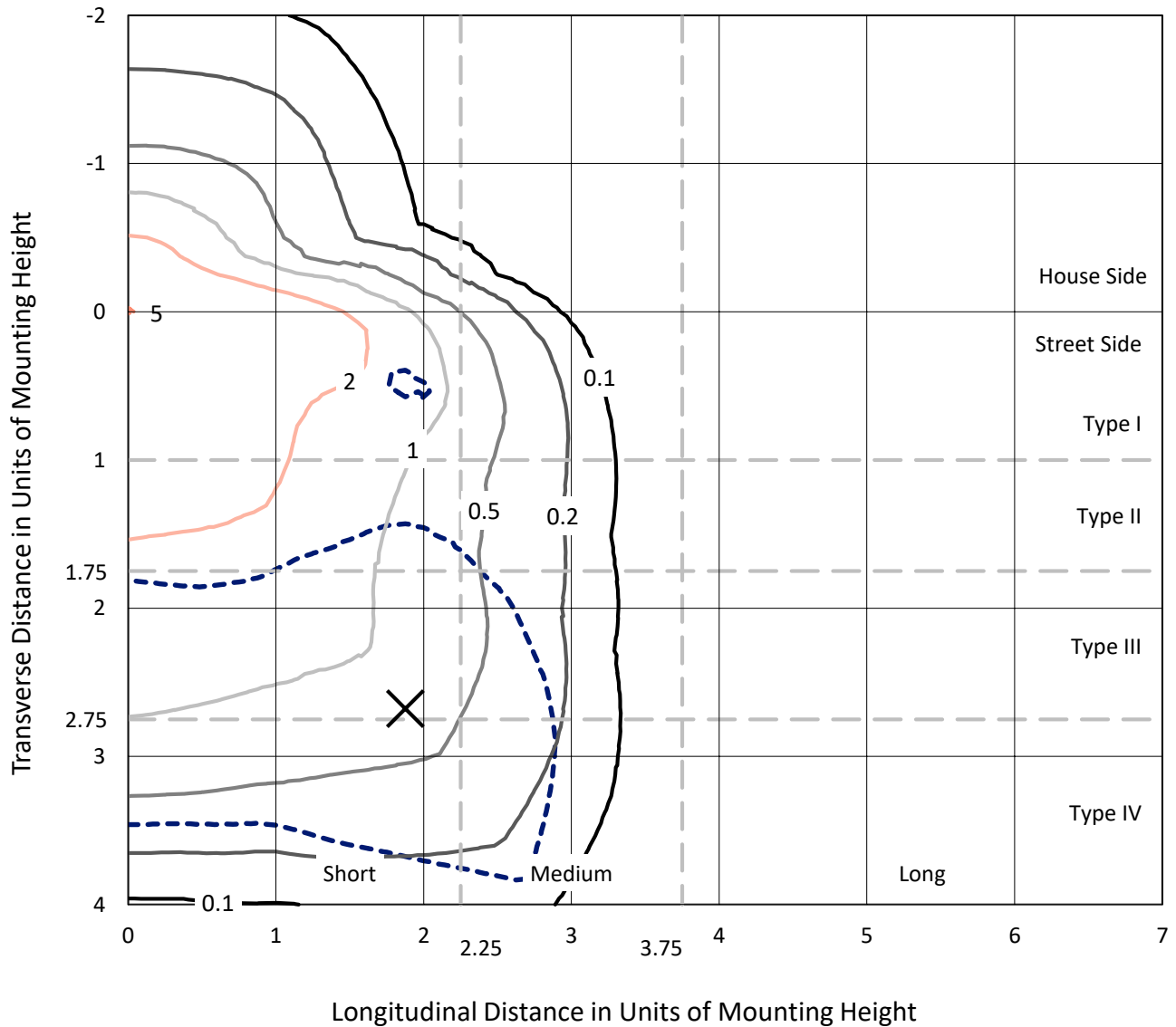


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

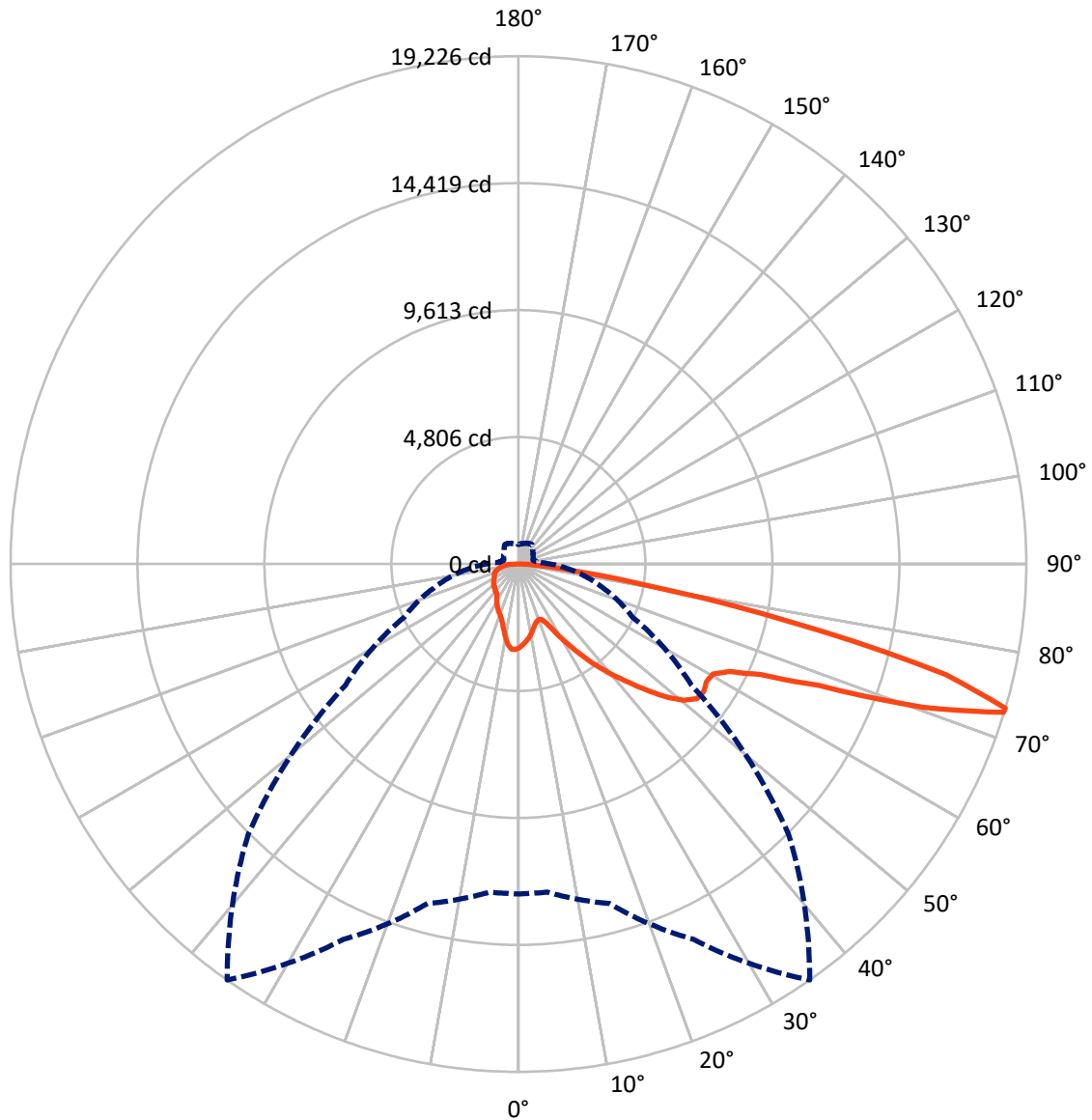


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Non-Cutoff

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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	4006.9	0.0	4006.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	17001.7	0.0	17001.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	21008.6	0.0	21008.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.1	1.4
10°-20°	716.4	3.4
20°-30°	1158.2	5.5
30°-40°	1942.2	9.2
40°-50°	2993.8	14.3
50°-60°	4016.5	19.1
60°-70°	5350.8	25.5
70°-80°	4081.0	19.4
80°-90°	462.6	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°	21008.6	100.0
0°-180°	21008.6	100.0

Coefficient of Utilization



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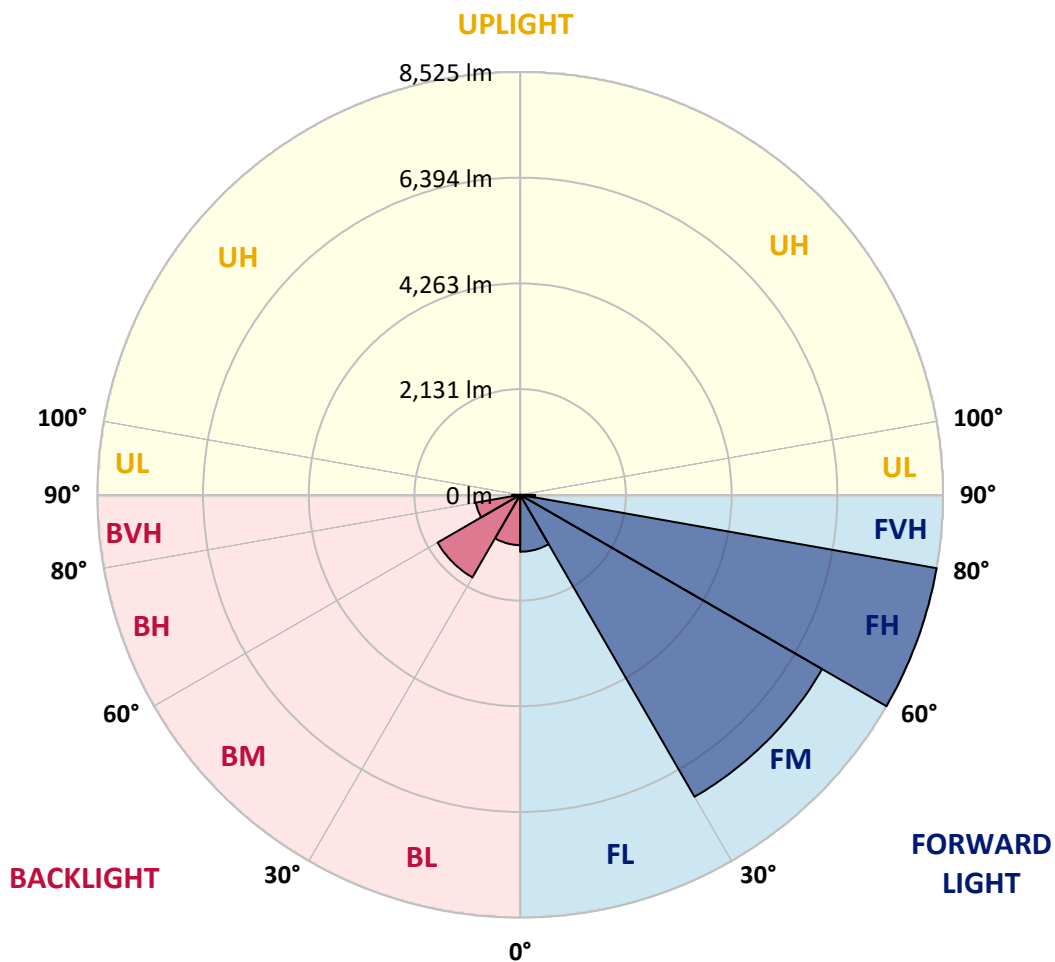
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1147.8	5.5			
FM	(30°-60°)	7029.6	33.5			
FH	(60°-80°)	8525.3	40.6			G4/12000
FVH	(80°-90°)	299.0	1.4			G3/500
BL	(0°-30°)	1013.9	4.8	B3/2500		
BM	(30°-60°)	1922.9	9.2	B2/2500		
BH	(60°-80°)	906.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	163.6	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8
2.5°	3045.8	3051.8	3044.7	3053.8	3069.0	3085.0	3096.2	3112.4	3130.6	3155.7	3161.8
5°	2902.6	2911.5	2911.5	2927.8	2957.0	2983.2	3007.4	3033.7	3071.9	3115.3	3132.5
7.5°	2745.1	2750.2	2759.2	2783.5	2825.8	2863.2	2897.5	2939.9	2992.3	3049.7	3080.1
10°	2555.5	2562.5	2576.6	2611.0	2668.4	2719.9	2769.4	2827.9	2894.3	2966.1	3004.4
12.5°	2421.3	2419.2	2425.3	2450.5	2501.1	2563.6	2635.2	2709.7	2791.6	2875.2	2921.6
15°	2375.8	2364.8	2341.5	2335.6	2362.7	2425.3	2508.1	2599.9	2697.7	2798.6	2856.2
17.5°	2404.1	2384.9	2321.4	2275.0	2270.9	2318.3	2406.1	2509.1	2622.1	2745.1	2816.7
20°	2581.6	2536.3	2379.9	2272.0	2234.7	2257.8	2334.5	2443.5	2576.6	2740.1	2831.8
22.5°	3006.4	2939.9	2607.9	2407.2	2281.1	2252.8	2310.4	2426.3	2581.6	2802.6	2919.6
25°	3624.8	3530.0	2999.4	2744.1	2483.9	2333.4	2346.6	2465.7	2653.4	2947.9	3089.1
27.5°	4113.1	4051.5	3510.8	3219.3	2853.0	2551.5	2464.7	2564.5	2799.6	3186.0	3330.2
30°	4403.8	4366.3	4057.6	3758.0	3324.2	2898.4	2690.7	2750.2	3028.5	3515.8	3634.9
32.5°	4740.6	4718.4	4567.2	4291.7	3832.7	3354.5	3048.8	3027.6	3335.2	3912.4	3966.8
35°	5089.6	5082.6	4993.9	4796.1	4378.5	3955.7	3524.0	3380.7	3669.2	4324.0	4289.6
37.5°	5414.5	5402.4	5351.1	5236.0	4949.5	4601.4	4008.1	3742.9	4029.3	4717.4	4565.0
40°	6012.9	5917.9	5741.4	5654.7	5526.6	5145.2	4392.6	4080.8	4402.7	5092.8	4803.1
42.5°	6742.1	6587.9	6259.0	6139.9	6121.8	5574.0	4654.8	4408.7	4779.0	5465.0	5037.2
45°	7316.2	7171.0	6887.6	6737.2	6803.8	5962.4	4918.2	4758.9	5166.4	5855.4	5278.4
47.5°	7928.6	7700.6	7325.4	7370.8	7515.9	6329.5	5186.5	5135.2	5591.1	6292.3	5577.9
50°	7950.9	7776.3	7611.9	7883.3	8109.2	6667.6	5522.5	5529.5	6110.7	6842.1	5976.6
52.5°	7489.8	7452.5	7713.7	8140.5	8466.3	6934.9	5904.9	5937.2	6775.6	7473.7	6414.3
55°	7328.4	7286.1	7587.7	8050.7	8514.8	7155.9	6319.4	6378.1	7579.5	8139.5	6841.1
57.5°	7721.8	7628.0	7648.2	8008.3	8396.7	7398.0	6771.5	6889.6	8453.2	8721.6	7115.6
60°	8821.4	8620.8	8239.3	8230.4	8460.2	7761.1	7294.1	7438.3	9361.2	9000.1	7008.5
62.5°	10364.0	10163.2	9449.0	8983.9	8949.6	8360.4	7935.6	7974.1	9885.8	8622.7	6355.8
65°	12033.8	11854.2	11056.1	10399.4	10082.5	9353.2	8681.3	8213.2	9714.4	7584.6	5213.9
67.5°	14060.5	13867.9	13181.8	12575.5	12270.8	10955.2	9204.8	7984.1	8625.7	5875.6	3747.9
70°	15477.9	15281.2	15010.9	15502.2	16247.7	13266.4	9272.5	7053.0	6442.6	3905.3	2255.9
72.5°	13628.7	13536.9	14030.3	16099.5	19204.7	14668.9	8381.6	5135.2	3741.9	2073.2	1305.4
73°	12486.7	12466.5	13307.9	15680.8	19225.9	14452.9	7991.2	4773.0	3209.1	1834.1	1193.5
75°	5638.5	5801.0	7645.1	11977.2	16703.8	11909.5	5624.4	2738.0	1812.9	1267.1	900.9
77.5°	1355.0	1411.3	2391.9	5688.0	10548.6	7097.4	2548.4	1353.8	1159.3	894.8	657.7
80°	577.2	596.3	921.1	2101.4	4966.5	2858.0	1174.4	907.0	802.0	624.5	461.0
82.5°	320.9	340.9	522.6	953.5	2004.6	974.5	716.3	631.6	527.7	376.3	299.7
85°	181.5	192.6	305.8	532.6	849.4	391.4	428.9	419.7	297.6	193.8	147.3
87.5°	85.8	92.9	147.3	247.2	332.9	153.3	217.8	240.0	186.7	118.0	76.6
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°	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8	3170.8
2.5°	3168.9	3186.9	3208.1	3219.3	3229.3	3241.4	3253.7	3253.7	3255.5	3256.6
5°	3146.7	3184.0	3217.3	3231.5	3234.3	3234.3	3231.5	3215.3	3201.1	3207.2
7.5°	3100.2	3154.7	3183.0	3177.9	3139.5	3095.2	3057.9	3012.5	2989.3	2985.2
10°	3033.7	3096.2	3101.3	3050.9	2956.0	2861.1	2782.4	2705.8	2669.5	2660.4
12.5°	2959.9	3017.4	2985.2	2881.4	2729.1	2590.7	2490.9	2413.1	2378.9	2369.8
15°	2900.4	2939.9	2858.0	2694.6	2502.9	2356.8	2274.0	2216.5	2192.3	2185.1
17.5°	2869.1	2877.4	2728.0	2507.0	2303.3	2181.2	2129.7	2102.5	2093.4	2088.3
20°	2884.4	2827.9	2603.8	2332.4	2139.9	2054.1	2041.9	2034.9	2032.9	2029.8
22.5°	2959.9	2812.8	2489.8	2167.0	1996.6	1959.3	1969.4	1968.2	1966.3	1964.2
25°	3095.2	2825.8	2378.9	2009.7	1876.5	1868.5	1886.6	1886.6	1878.4	1878.4
27.5°	3273.8	2853.0	2254.7	1860.3	1767.5	1768.6	1782.6	1778.6	1769.5	1763.6
30°	3491.7	2870.3	2109.5	1726.2	1665.6	1661.5	1665.6	1648.5	1621.3	1619.3
32.5°	3714.6	2849.1	1941.1	1607.1	1557.8	1548.6	1545.5	1521.4	1490.1	1481.0
35°	3916.4	2771.4	1769.5	1512.2	1454.7	1434.7	1448.7	1440.6	1412.5	1405.4
37.5°	4063.8	2627.1	1615.2	1428.6	1381.1	1376.2	1385.1	1388.2	1355.0	1347.8
40°	4162.6	2431.4	1483.0	1357.9	1367.0	1347.8	1317.5	1296.3	1286.4	1283.3
42.5°	4242.2	2227.5	1372.0	1324.6	1370.0	1314.5	1249.0	1214.7	1232.8	1240.9
45°	4334.1	2028.8	1279.2	1283.3	1355.0	1276.2	1201.6	1168.2	1175.3	1177.4
47.5°	4460.2	1786.6	1179.4	1216.7	1304.5	1250.0	1172.3	1124.9	1091.6	1076.4
50°	4634.7	1500.2	1075.5	1142.0	1255.0	1230.8	1127.0	1076.4	1014.9	1000.8
52.5°	4755.7	1232.8	989.8	1079.5	1210.6	1192.5	1090.6	1025.0	960.5	948.3
55°	4690.2	1024.0	915.1	1009.9	1152.2	1145.1	1060.3	972.5	922.1	912.0
57.5°	4362.3	891.8	857.5	944.3	1080.5	1104.6	1019.9	928.2	891.8	884.8
60°	3736.8	809.2	821.2	899.9	1022.0	1064.3	979.6	904.0	879.7	874.7
62.5°	2899.5	753.6	794.0	867.7	976.5	1036.0	957.5	900.9	891.8	885.8
65°	2077.2	709.2	764.6	835.3	935.2	1009.9	949.4	896.9	898.9	893.9
67.5°	1411.3	669.9	729.5	799.0	894.8	986.7	938.2	882.8	907.9	901.9
70°	987.6	631.6	688.0	752.6	844.3	954.4	918.1	861.6	859.6	835.3
72.5°	770.7	581.2	631.6	688.0	779.9	908.9	877.7	814.1	780.8	755.7
73°	735.4	568.9	617.5	673.9	765.7	897.9	866.7	801.1	763.6	740.6
75°	608.3	516.5	560.9	611.3	705.2	845.5	812.2	741.6	694.1	679.9
77.5°	478.2	441.8	484.2	529.6	621.4	768.8	731.4	663.8	637.5	625.5
80°	354.1	366.1	403.6	443.9	538.8	687.1	653.7	586.1	703.2	673.9
82.5°	249.2	277.4	311.7	348.1	451.9	607.3	567.0	497.4	514.5	427.8
85°	147.3	181.5	213.8	245.1	325.8	503.4	468.0	396.5	324.8	309.7
87.5°	85.8	100.9	110.0	142.2	223.9	379.4	329.9	293.6	168.5	114.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)