

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: P194801

Luminaire Tested: **GLEON-AF-03-LED-E1-T3-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-T3-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19939 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 191
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



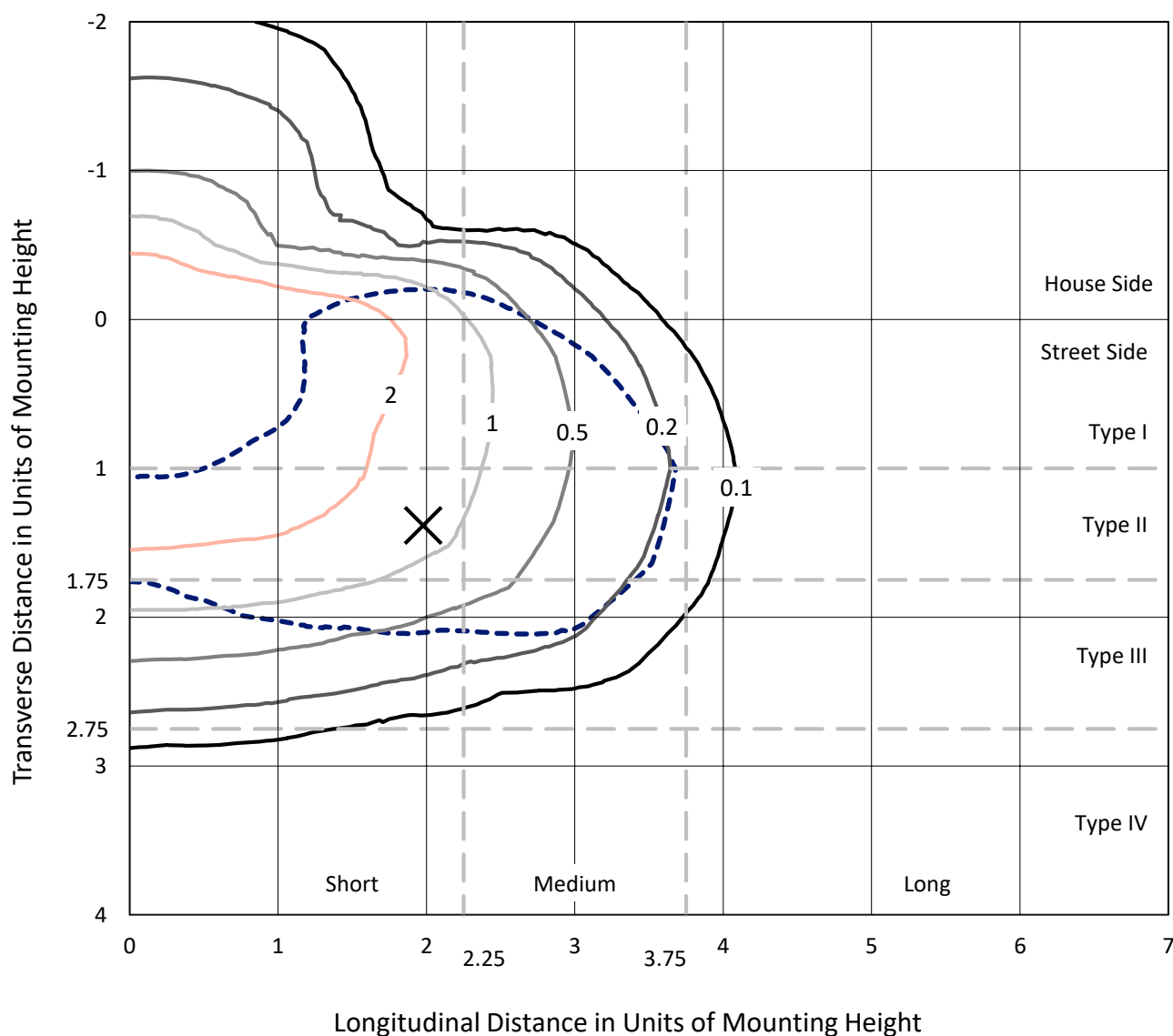
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

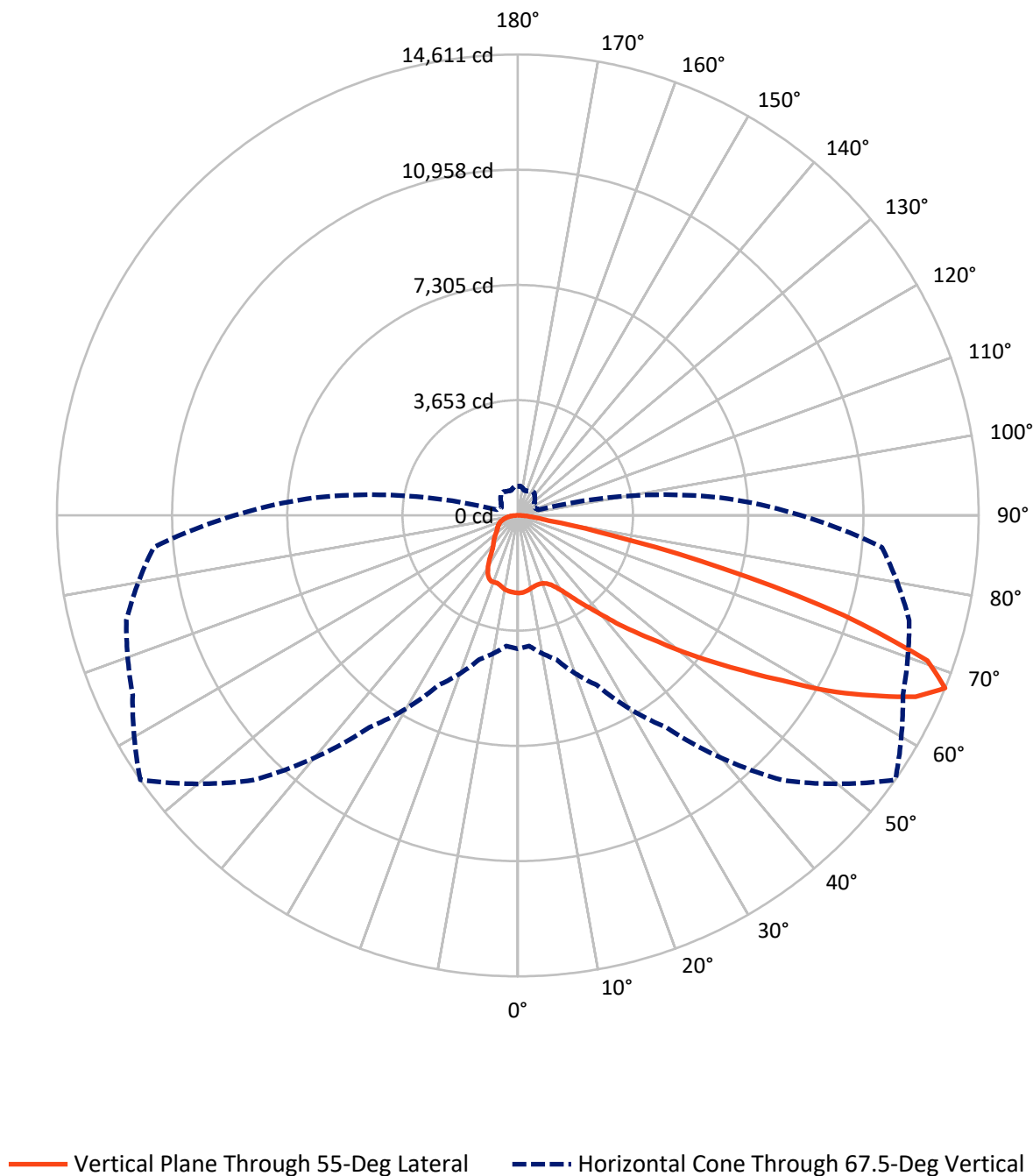


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4307.2	0.0	4307.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	15631.8	0.0	15631.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	19939.0	0.0	19939.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.5	1.2
10°-20°	650.0	3.3
20°-30°	1088.8	5.5
30°-40°	1790.4	9.0
40°-50°	3013.8	15.1
50°-60°	4743.5	23.8
60°-70°	5660.8	28.4
70°-80°	2430.9	12.2
80°-90°	331.4	1.7
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°	19939.0	100.0
0°-180°	19939.0	100.0

Coefficient of Utilization



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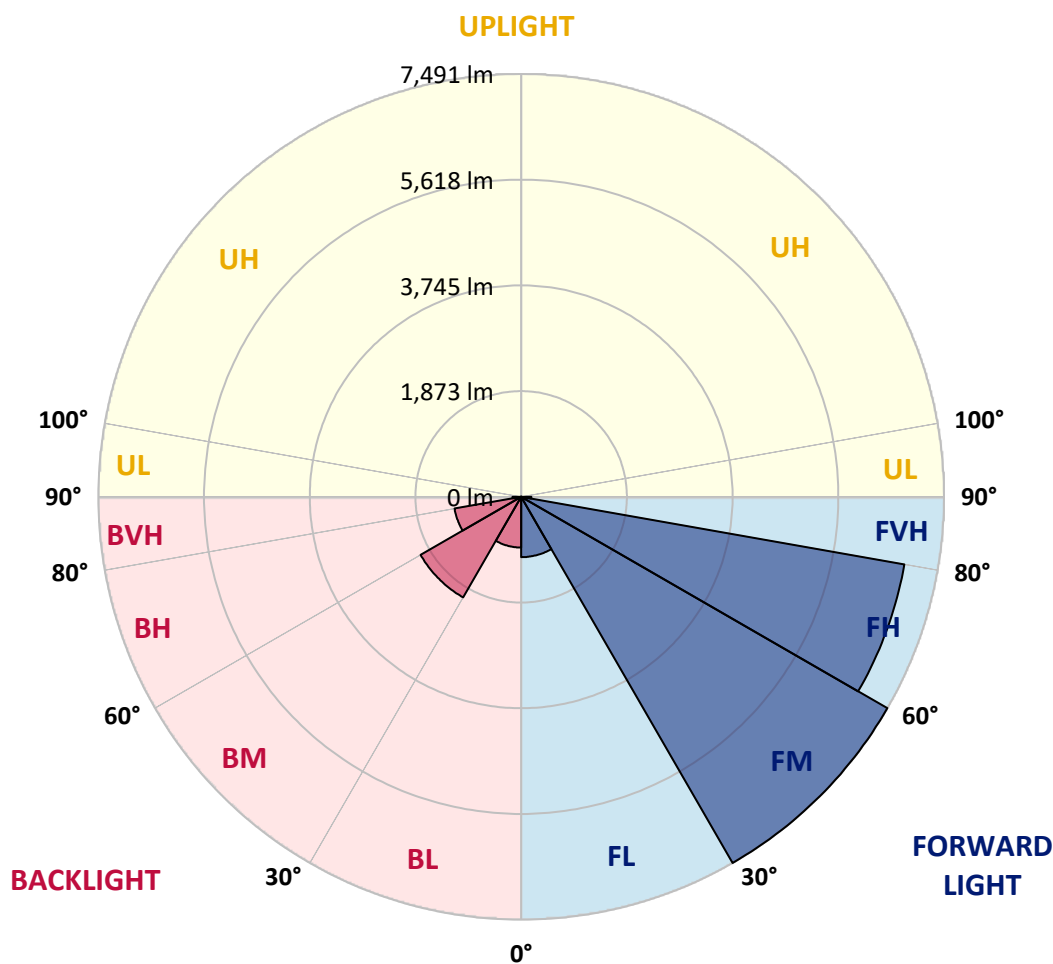
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1068.8	5.4			
FM	(30°-60°)	7490.6	37.6			
FH	(60°-80°)	6893.0	34.6			G3/7500
FVH	(80°-90°)	179.4	0.9			G2/225
BL	(0°-30°)	899.4	4.5	B2/1000		
BM	(30°-60°)	2057.1	10.3	B2/2500		
BH	(60°-80°)	1198.7	6.0	B3/2500		G3/2500
BVH	(80°-90°)	152.0	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2458.7	2458.7	2458.7	2458.7	2458.7	2458.7	2458.7	2458.7	2458.7	2458.7	2458.7
2.5°	2437.5	2438.5	2440.4	2448.1	2454.8	2452.9	2453.9	2450.0	2449.1	2443.3	2449.1
5°	2406.7	2409.6	2410.5	2423.1	2430.8	2432.7	2429.8	2425.0	2419.2	2413.4	2416.3
7.5°	2336.4	2344.1	2345.1	2362.4	2374.9	2391.3	2392.2	2393.2	2390.3	2386.5	2392.2
10°	2292.1	2294.0	2293.0	2305.6	2315.2	2333.5	2344.1	2362.4	2370.1	2372.0	2375.9
12.5°	2289.2	2287.3	2284.4	2284.4	2281.5	2289.2	2308.5	2334.5	2352.8	2358.5	2363.4
15°	2320.0	2319.1	2309.4	2295.0	2276.7	2270.9	2287.3	2316.2	2340.2	2352.8	2357.6
17.5°	2389.4	2383.6	2368.2	2335.4	2295.9	2280.5	2282.5	2306.5	2334.5	2350.8	2355.6
20°	2516.5	2516.5	2483.7	2422.1	2351.8	2315.2	2297.9	2312.3	2339.3	2361.4	2368.2
22.5°	2736.1	2738.0	2683.1	2582.0	2463.5	2385.5	2342.2	2339.3	2371.1	2396.1	2403.8
25°	3047.1	3039.4	2962.4	2817.9	2637.8	2508.8	2433.7	2416.3	2443.3	2471.2	2480.8
27.5°	3409.2	3381.3	3289.8	3115.5	2882.4	2693.7	2578.1	2550.2	2576.2	2608.0	2617.6
30°	3767.5	3738.6	3629.8	3439.1	3180.0	2941.2	2775.5	2730.3	2766.9	2812.1	2817.9
32.5°	4125.8	4125.8	4004.4	3781.9	3499.8	3236.9	3038.5	2984.5	3045.2	3100.1	3112.6
35°	4554.3	4556.2	4438.8	4171.0	3867.7	3589.3	3370.7	3331.2	3422.7	3461.2	3491.1
37.5°	5081.1	5091.7	4940.5	4616.9	4284.7	3991.9	3731.9	3677.9	3769.4	3874.4	3970.7
40°	5650.3	5663.8	5497.2	5098.4	4766.2	4459.9	4178.7	4081.5	4233.6	4433.9	4558.2
42.5°	6193.4	6262.8	6102.0	5691.7	5334.4	5017.6	4732.5	4590.9	4781.6	5084.0	5191.9
45°	6978.3	7028.4	6748.2	6376.4	6040.3	5685.9	5308.4	5159.1	5425.9	5807.3	5829.4
47.5°	7501.3	7463.7	7321.2	7090.1	6877.2	6545.9	5977.7	5814.0	6168.4	6617.2	6493.0
50°	7779.6	7791.2	7771.9	7785.4	7793.1	7585.1	6798.3	6573.9	6996.6	7538.8	7252.8
52.5°	8039.6	7962.6	8026.2	8342.0	8723.4	8646.4	7691.0	7457.0	7884.6	8561.6	8056.0
55°	8033.9	7916.4	8123.4	8681.0	9508.3	9596.9	8693.6	8423.9	8823.6	9658.5	8907.4
57.5°	7749.8	7755.5	8074.3	8804.3	10055.3	10490.6	9856.9	9452.5	9819.4	10769.9	9684.5
60°	7358.8	7411.7	7871.1	8784.1	10493.5	11223.5	11284.2	10560.9	10795.0	11780.2	10327.9
62.5°	6727.9	6783.8	7417.5	8574.1	10427.1	11929.4	12574.7	11818.7	11814.8	12392.7	10516.6
65°	5733.1	5716.7	6382.2	7789.2	9869.5	12451.4	13856.5	12906.0	12583.4	12402.3	10137.2
67.5°	4227.8	4154.6	4725.7	5932.5	8203.4	11866.8	14610.6	13472.3	12845.3	11586.6	8977.7
70°	2193.9	2120.7	2582.9	3464.1	5395.1	9261.8	13775.6	13179.5	12266.5	9712.5	7033.2
72.5°	938.0	925.5	1113.3	1519.7	2609.9	5342.1	10801.7	11407.5	10525.3	7236.4	4835.5
75°	630.8	627.0	697.3	828.2	1174.0	2167.9	6759.7	8097.4	7700.6	4486.9	2719.7
77.5°	495.0	490.2	531.6	595.2	760.8	855.2	2999.9	4347.3	4023.7	1953.1	1190.3
80°	387.2	383.3	409.3	444.0	547.0	539.3	987.1	1729.7	1338.7	748.3	578.8
82.5°	305.3	305.3	326.5	327.4	388.1	367.9	515.2	761.8	668.4	436.3	354.4
85°	279.3	279.3	301.4	244.6	253.3	232.1	319.7	451.7	423.7	179.1	154.1
87.5°	140.6	136.8	253.3	216.7	137.7	123.3	156.0	218.6	235.0	99.2	77.0
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°	2458.7	2458.7	2458.7	2458.7	2458.7	2458.7	2458.7	2458.7	2458.7	2458.7
2.5°	2447.1	2446.2	2448.1	2449.1	2456.8	2467.4	2472.2	2478.9	2482.8	2480.8
5°	2418.2	2420.2	2427.9	2433.7	2447.1	2464.5	2474.1	2481.8	2488.6	2485.7
7.5°	2394.2	2399.0	2410.5	2415.4	2423.1	2427.9	2426.9	2429.8	2435.6	2428.8
10°	2380.7	2386.5	2395.1	2388.4	2370.1	2344.1	2320.0	2307.5	2311.3	2306.5
12.5°	2367.2	2374.9	2368.2	2336.4	2285.3	2251.6	2233.3	2235.3	2243.9	2245.9
15°	2359.5	2362.4	2333.5	2273.8	2221.8	2217.0	2226.6	2224.7	2225.6	2225.6
17.5°	2359.5	2351.8	2297.9	2238.2	2216.0	2207.3	2177.5	2139.9	2123.6	2117.8
20°	2372.0	2351.8	2286.3	2246.8	2198.7	2124.5	2045.5	1976.2	1945.4	1936.7
22.5°	2409.6	2374.9	2319.1	2250.7	2113.9	1989.7	1864.5	1781.7	1725.8	1716.2
25°	2485.7	2447.1	2383.6	2199.6	1979.1	1801.9	1659.4	1566.9	1511.0	1503.3
27.5°	2618.6	2593.5	2418.2	2087.0	1800.0	1610.2	1478.3	1407.0	1365.6	1362.7
30°	2818.9	2806.4	2400.9	1920.3	1579.4	1424.4	1360.8	1319.4	1288.6	1287.6
32.5°	3138.6	3037.5	2344.1	1717.1	1378.1	1292.4	1266.4	1241.4	1217.3	1217.3
35°	3549.8	3224.3	2236.2	1499.5	1255.8	1219.2	1186.5	1147.0	1115.2	1113.3
37.5°	4033.3	3339.9	2042.7	1324.2	1198.0	1170.1	1122.0	1063.2	1007.4	997.7
40°	4521.6	3374.6	1770.1	1216.3	1161.5	1121.0	1062.3	992.9	939.0	936.1
42.5°	4969.4	3308.1	1481.2	1142.2	1124.9	1070.9	1009.3	947.7	905.3	904.3
45°	5345.0	3135.7	1238.5	1071.9	1086.3	1025.7	970.8	920.7	887.9	881.2
47.5°	5698.4	2892.1	1068.0	997.7	1047.8	1000.6	954.4	907.2	875.4	870.6
50°	6108.7	2629.2	948.6	925.5	1014.1	992.0	967.9	918.8	865.8	860.0
52.5°	6605.6	2401.9	855.2	861.9	988.1	1003.5	1002.5	951.5	859.1	851.3
55°	7160.4	2149.6	784.9	809.9	977.5	1024.7	1011.2	982.3	864.8	853.3
57.5°	7706.4	1854.9	735.8	770.4	962.1	1022.8	969.8	928.4	878.3	861.9
60°	8115.7	1459.0	698.2	735.8	928.4	991.0	924.5	869.6	875.4	862.9
62.5°	8142.7	1127.7	653.0	705.9	877.3	959.2	894.7	843.6	887.9	876.4
65°	7664.0	852.3	609.6	670.3	822.5	939.0	865.8	829.2	913.9	901.4
67.5°	6452.5	685.7	573.0	633.7	767.6	896.6	839.8	815.7	937.1	914.9
70°	4658.3	584.6	537.4	589.4	718.4	848.5	816.7	791.6	874.5	839.8
72.5°	2868.0	506.6	496.9	530.6	680.9	798.4	782.0	746.4	787.8	759.9
75°	1432.1	439.2	451.7	472.9	627.9	741.6	724.2	688.6	694.4	688.6
77.5°	685.7	375.6	398.7	415.1	559.5	677.0	658.7	622.1	615.4	616.4
80°	434.3	314.0	336.1	347.7	499.8	601.9	583.6	547.0	624.1	578.8
82.5°	271.6	255.2	261.0	282.2	435.3	523.9	499.8	467.1	562.4	444.9
85°	150.2	178.2	185.9	204.2	335.1	438.2	414.1	372.7	334.2	328.4
87.5°	89.6	105.9	108.8	122.3	225.4	316.8	280.3	265.8	220.5	219.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)