

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: P269426

Luminaire Tested: **GLEON-AF-06-LED-E1-T3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269426
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-06-LED-E1-T3-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20383.4 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

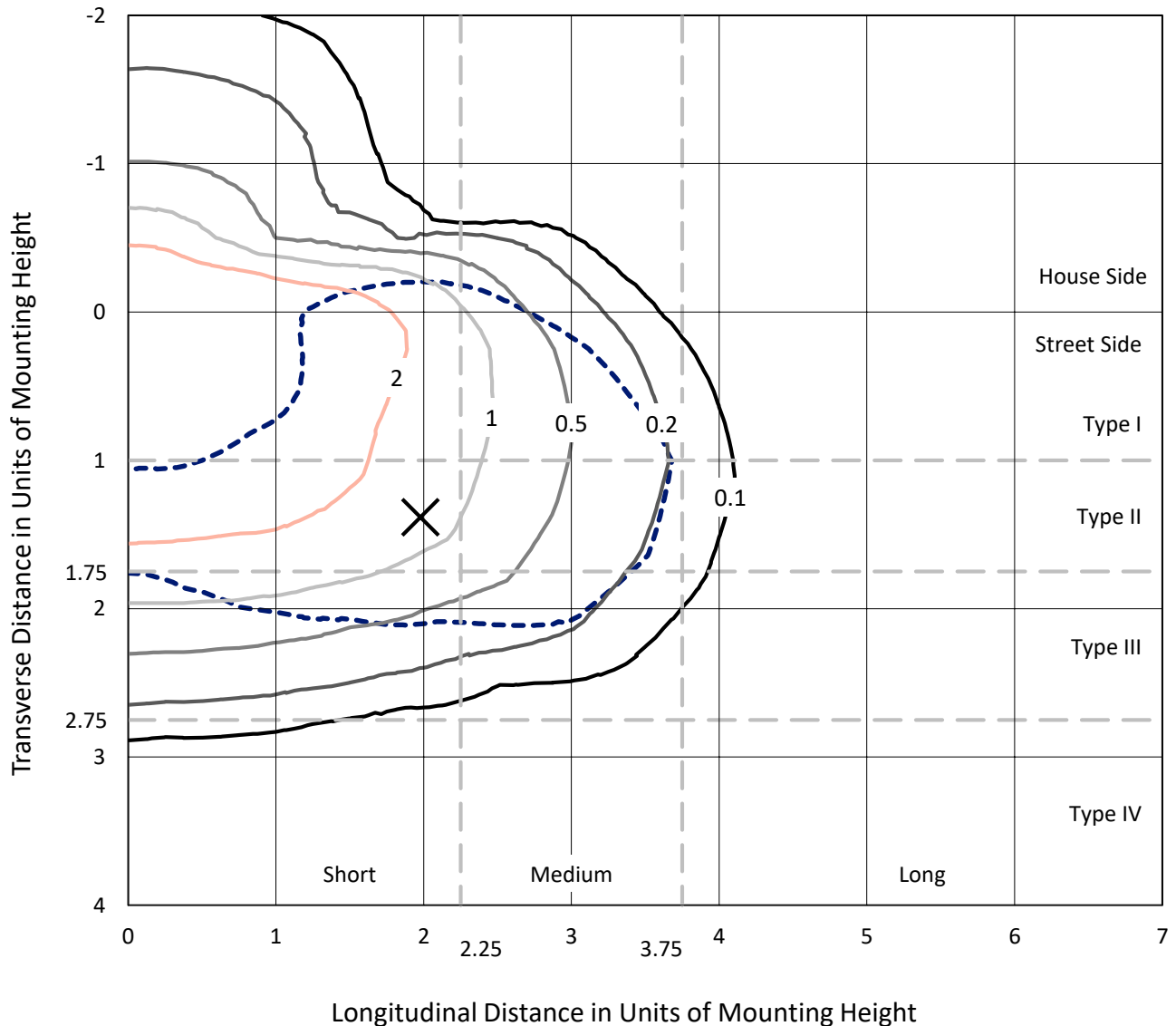
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

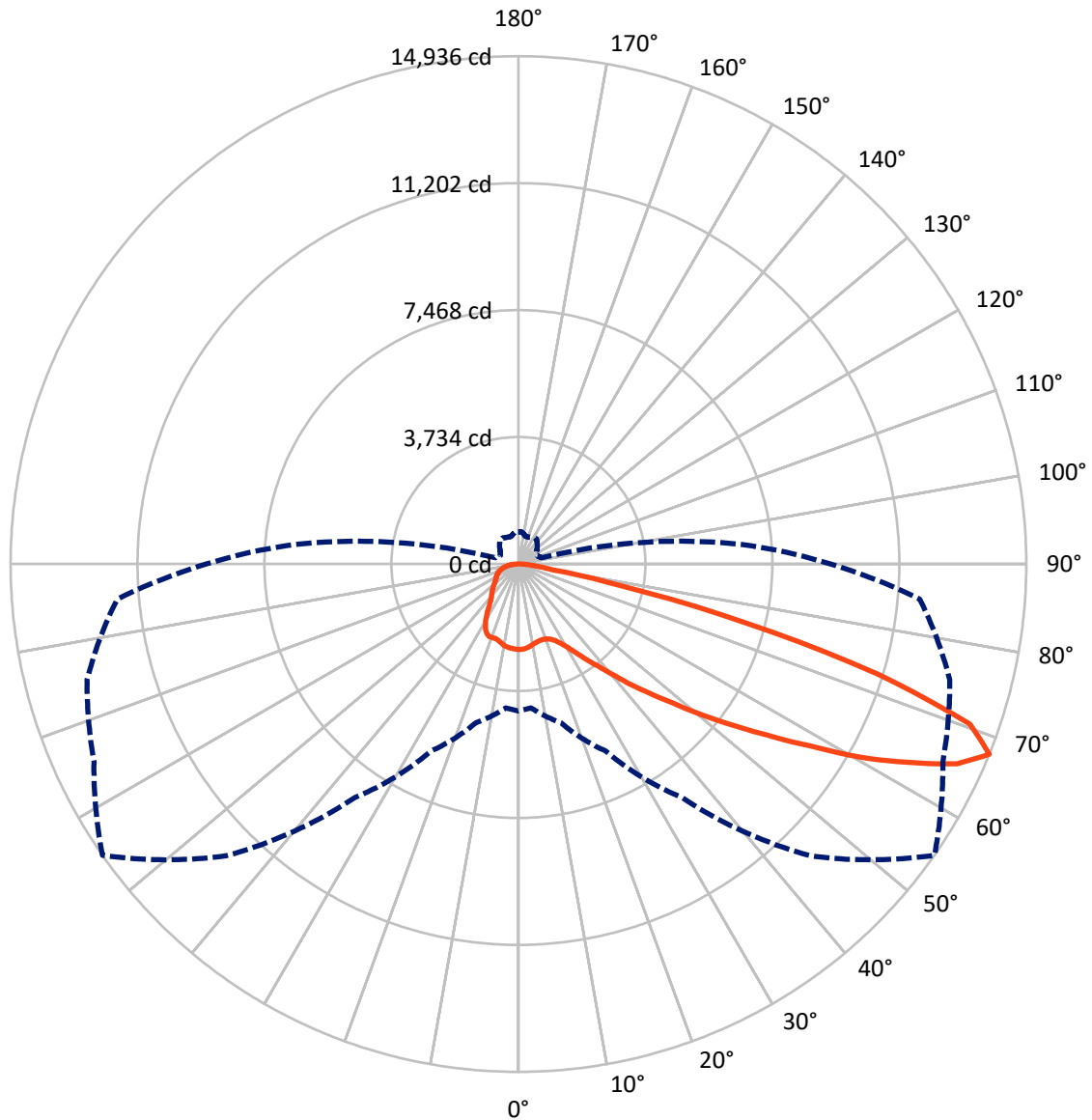
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4403.2	0.0	4403.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	15980.2	0.0	15980.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	20383.4	0.0	20383.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.6	1.2
10°-20°	664.4	3.3
20°-30°	1113.0	5.5
30°-40°	1830.3	9.0
40°-50°	3081.0	15.1
50°-60°	4849.2	23.8
60°-70°	5787.0	28.4
70°-80°	2485.1	12.2
80°-90°	338.8	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°	20383.4	100.0
0°-180°	20383.4	100.0



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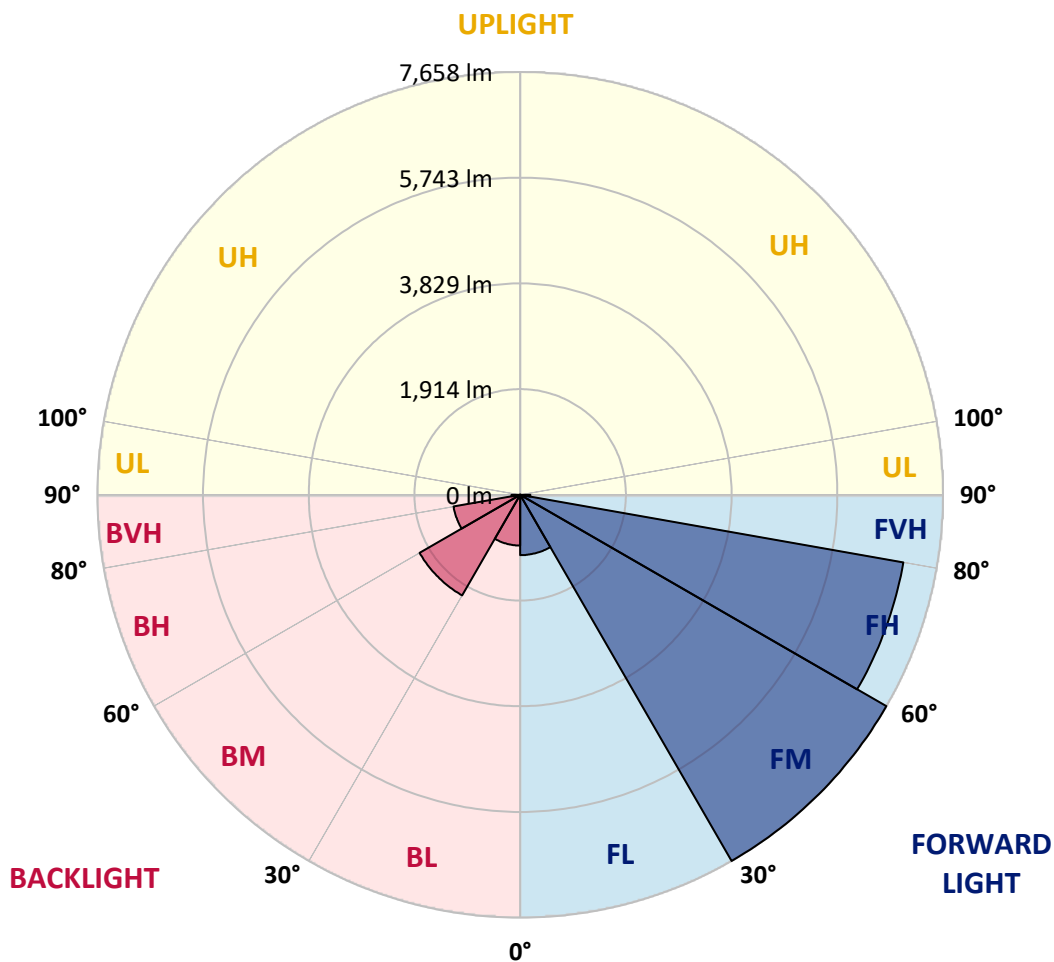
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1092.6	5.4			
FM (30°-60°)	7657.5	37.6			
FH (60°-80°)	7046.6	34.6			G3/7500
FVH (80°-90°)	183.4	0.9			G2/225
BL (0°-30°)	919.5	4.5	B2/1000		
BM (30°-60°)	2102.9	10.3	B2/2500		
BH (60°-80°)	1225.4	6.0	B3/2500		G3/2500
BVH (80°-90°)	155.4	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°	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5
2.5°	2491.9	2492.8	2494.9	2502.7	2509.5	2507.6	2508.5	2504.7	2503.7	2497.7	2503.7
5°	2460.4	2463.3	2464.3	2477.0	2484.9	2486.9	2484.0	2479.1	2473.2	2467.3	2470.2
7.5°	2388.5	2396.4	2397.3	2415.1	2427.8	2444.6	2445.5	2446.5	2443.6	2439.6	2445.5
10°	2343.1	2345.1	2344.1	2357.0	2366.9	2385.4	2396.4	2415.1	2422.9	2424.9	2428.8
12.5°	2340.3	2338.3	2335.4	2335.4	2332.4	2340.3	2359.8	2386.4	2405.2	2411.1	2416.0
15°	2371.7	2370.7	2360.8	2346.2	2327.4	2321.5	2338.3	2367.8	2392.4	2405.2	2410.2
17.5°	2442.6	2436.7	2420.9	2387.4	2347.1	2331.3	2333.3	2358.0	2386.4	2403.2	2408.1
20°	2572.6	2572.6	2539.1	2476.1	2404.3	2366.9	2349.1	2363.8	2391.4	2414.0	2420.9
22.5°	2797.1	2798.9	2742.9	2639.5	2518.4	2438.7	2394.3	2391.4	2423.8	2449.5	2457.4
25°	3115.1	3107.1	3028.4	2880.8	2696.6	2564.8	2487.9	2470.2	2497.7	2526.4	2536.2
27.5°	3485.2	3456.7	3363.2	3184.9	2946.7	2753.8	2635.5	2607.1	2633.7	2666.1	2676.0
30°	3851.5	3821.8	3710.7	3515.7	3250.8	3006.7	2837.3	2791.2	2828.6	2874.8	2880.8
32.5°	4217.7	4217.7	4093.7	3866.2	3577.8	3308.9	3106.2	3051.1	3113.0	3169.2	3181.9
35°	4655.8	4657.8	4537.7	4264.0	3953.9	3669.3	3445.9	3405.5	3499.0	3538.5	3568.8
37.5°	5194.4	5205.1	5050.6	4719.9	4380.1	4080.9	3815.0	3759.9	3853.4	3960.7	4059.3
40°	5776.2	5789.9	5619.6	5212.1	4872.4	4559.3	4271.9	4172.4	4327.9	4532.8	4659.8
42.5°	6331.6	6402.4	6238.0	5818.5	5453.3	5129.4	4837.9	4693.3	4888.1	5197.4	5307.5
45°	7133.9	7185.1	6898.5	6518.6	6174.9	5812.7	5426.8	5274.0	5546.9	5936.7	5959.4
47.5°	7668.6	7630.1	7484.4	7248.1	7030.6	6691.8	6111.0	5943.5	6305.9	6764.6	6637.7
50°	7953.1	7964.8	7945.1	7959.0	7966.8	7754.1	6949.7	6720.4	7152.6	7706.9	7414.5
52.5°	8218.9	8140.1	8205.1	8528.0	8917.8	8839.1	7862.4	7623.1	8060.3	8752.5	8235.7
55°	8212.9	8092.8	8304.6	8874.5	9720.2	9810.7	8887.3	8611.6	9020.2	9873.8	9105.8
57.5°	7922.5	7928.4	8254.3	9000.6	10279.5	10724.4	10076.6	9663.2	10038.2	11009.9	9900.4
60°	7522.8	7576.9	8046.6	8979.8	10727.4	11473.7	11535.8	10796.3	11035.6	12042.8	10558.0
62.5°	6878.0	6935.1	7582.9	8765.2	10659.5	12195.3	12854.9	12082.2	12078.3	12668.8	10751.0
65°	5860.9	5844.2	6524.5	7962.8	10089.5	12729.0	14165.4	13193.6	12863.8	12678.8	10363.1
67.5°	4322.0	4247.2	4831.1	6064.6	8386.1	12131.3	14936.3	13772.5	13131.7	11844.8	9177.8
70°	2242.8	2167.9	2640.5	3541.4	5515.4	9468.1	14082.6	13473.3	12539.9	9929.0	7190.0
72.5°	958.9	946.2	1138.2	1553.6	2668.1	5461.2	11042.4	11661.7	10759.9	7397.7	4943.4
75°	644.9	640.9	712.7	846.7	1200.1	2216.2	6910.4	8277.9	7872.2	4586.9	2780.3
77.5°	506.0	501.2	543.5	608.4	777.8	874.3	3066.9	4444.2	4113.3	1996.7	1216.8
80°	395.8	391.8	418.4	453.9	559.3	551.3	1009.2	1768.3	1368.5	764.9	591.8
82.5°	312.2	312.2	333.8	334.8	396.8	376.1	526.8	778.8	683.3	446.0	362.2
85°	285.5	285.5	308.2	250.1	258.9	237.2	326.9	461.8	433.3	183.2	157.6
87.5°	143.8	139.7	258.9	221.5	140.8	126.0	159.4	223.5	240.2	101.4	78.7
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°	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5
2.5°	2501.7	2500.7	2502.7	2503.7	2511.5	2522.4	2527.3	2534.2	2538.2	2536.2
5°	2472.1	2474.1	2481.9	2487.9	2501.7	2519.3	2529.3	2537.2	2544.0	2541.0
7.5°	2447.5	2452.5	2464.3	2469.3	2477.0	2481.9	2480.9	2484.0	2489.8	2482.9
10°	2433.8	2439.6	2448.5	2441.7	2422.9	2396.4	2371.7	2358.9	2362.8	2358.0
12.5°	2419.9	2427.8	2420.9	2388.5	2336.3	2301.8	2283.1	2285.1	2293.9	2295.9
15°	2412.0	2415.1	2385.4	2324.5	2271.4	2266.3	2276.2	2274.2	2275.2	2275.2
17.5°	2412.0	2404.3	2349.1	2288.1	2265.3	2256.5	2226.0	2187.6	2170.8	2164.9
20°	2424.9	2404.3	2337.3	2296.8	2247.6	2171.8	2091.2	2020.3	1988.8	1979.9
22.5°	2463.3	2427.8	2370.7	2300.9	2161.1	2034.0	1906.1	1821.4	1764.4	1754.4
25°	2541.0	2501.7	2436.7	2248.6	2023.3	1842.1	1696.3	1601.8	1544.7	1536.8
27.5°	2676.9	2651.3	2472.1	2133.5	1840.1	1646.1	1511.3	1438.4	1396.1	1393.1
30°	2881.8	2868.8	2454.3	1963.2	1614.7	1456.2	1391.1	1348.8	1317.4	1316.2
32.5°	3208.6	3105.3	2396.4	1755.4	1408.8	1321.2	1294.6	1269.0	1244.4	1244.4
35°	3629.0	3296.2	2286.0	1532.9	1283.8	1246.4	1212.9	1172.6	1140.0	1138.2
37.5°	4123.2	3414.4	2088.2	1353.7	1224.7	1196.3	1147.0	1086.9	1029.7	1019.9
40°	4622.4	3449.9	1809.5	1243.4	1187.3	1146.0	1086.0	1015.1	959.8	957.0
42.5°	5080.2	3381.8	1514.3	1167.6	1149.9	1094.9	1031.9	968.8	925.4	924.4
45°	5464.1	3205.6	1266.2	1095.8	1110.6	1048.5	992.4	941.2	907.7	900.8
47.5°	5825.5	2956.5	1091.8	1019.9	1071.1	1022.9	975.6	927.4	894.9	890.0
50°	6244.8	2687.8	969.8	946.2	1036.7	1014.0	989.5	939.3	885.1	879.3
52.5°	6752.9	2455.3	874.3	881.1	1010.1	1025.9	1024.8	972.8	878.3	870.3
55°	7320.0	2197.4	802.4	828.0	999.3	1047.6	1033.8	1004.2	884.1	872.3
57.5°	7878.1	1896.2	752.2	787.6	983.6	1045.5	991.4	949.1	897.9	881.1
60°	8296.6	1491.5	713.8	752.2	949.1	1013.1	945.1	889.1	894.9	882.1
62.5°	8324.1	1152.9	667.5	721.7	896.9	980.6	914.7	862.5	907.7	895.9
65°	7834.8	871.3	623.2	685.2	840.8	959.8	885.1	847.7	934.2	921.5
67.5°	6596.3	700.9	585.8	647.8	784.7	916.6	858.5	833.8	958.0	935.2
70°	4762.2	597.6	549.4	602.6	734.5	867.4	834.9	809.4	894.0	858.5
72.5°	2931.9	517.9	508.0	542.4	696.0	816.2	799.4	763.0	805.3	776.8
75°	1464.0	449.0	461.8	483.4	641.8	758.1	740.4	703.9	709.8	703.9
77.5°	700.9	383.9	407.7	424.3	572.0	692.1	673.4	636.0	629.2	630.2
80°	444.0	321.0	343.6	355.4	511.0	615.2	596.7	559.3	637.9	591.8
82.5°	277.7	260.9	266.7	288.4	445.0	535.6	511.0	477.4	574.9	454.8
85°	153.6	182.1	190.0	208.8	342.7	448.0	423.3	381.1	341.6	335.7
87.5°	91.5	108.2	111.3	125.0	230.3	323.8	286.5	271.7	225.5	224.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)