

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: STREETWORKS

Report Number: P191461

Luminaire Tested: **GAN-AF-03-LED-U-T3-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191461
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: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-T3-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20396.6 lumens
Efficiency: N/A
Efficacy: 106.8 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

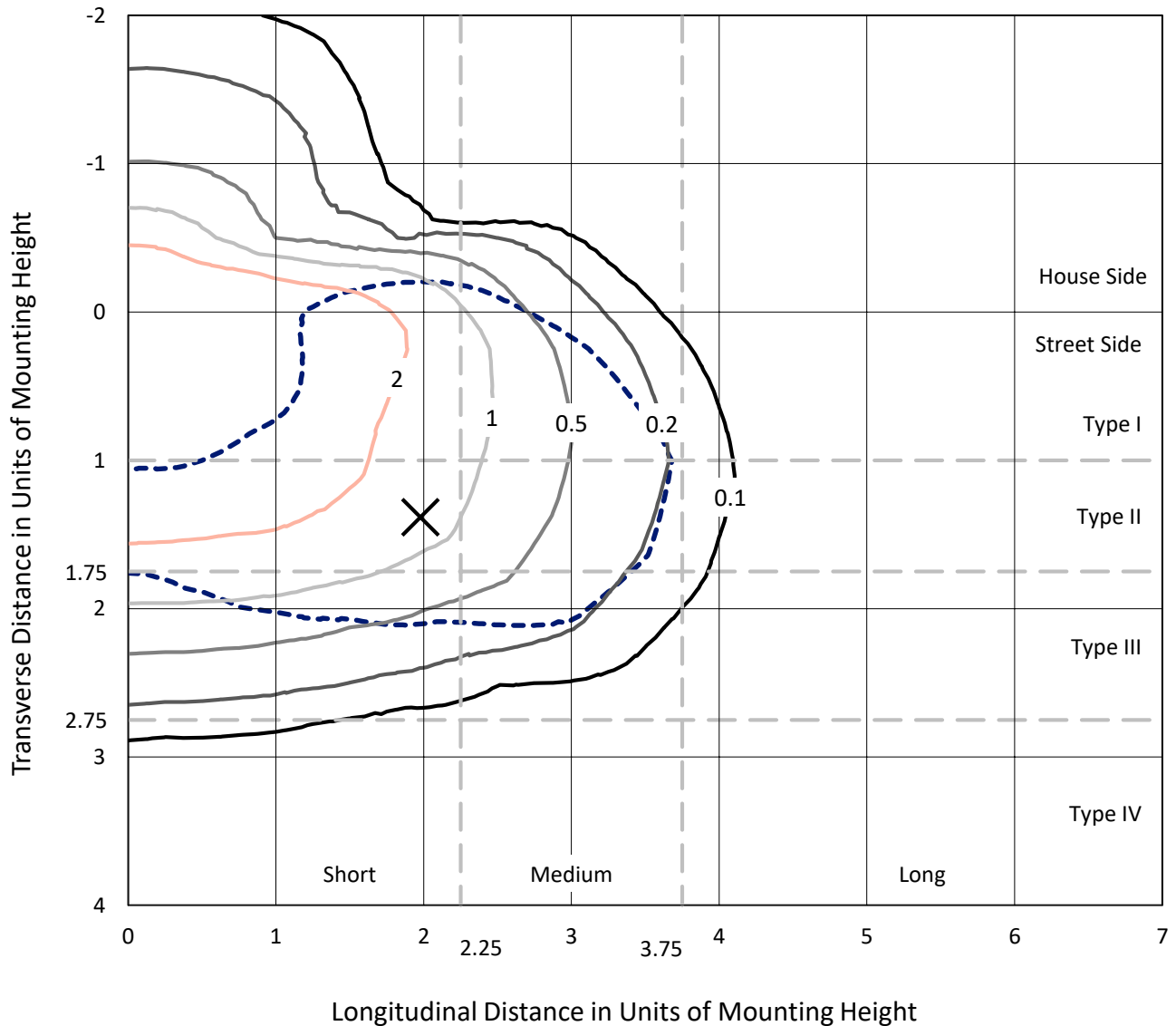
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

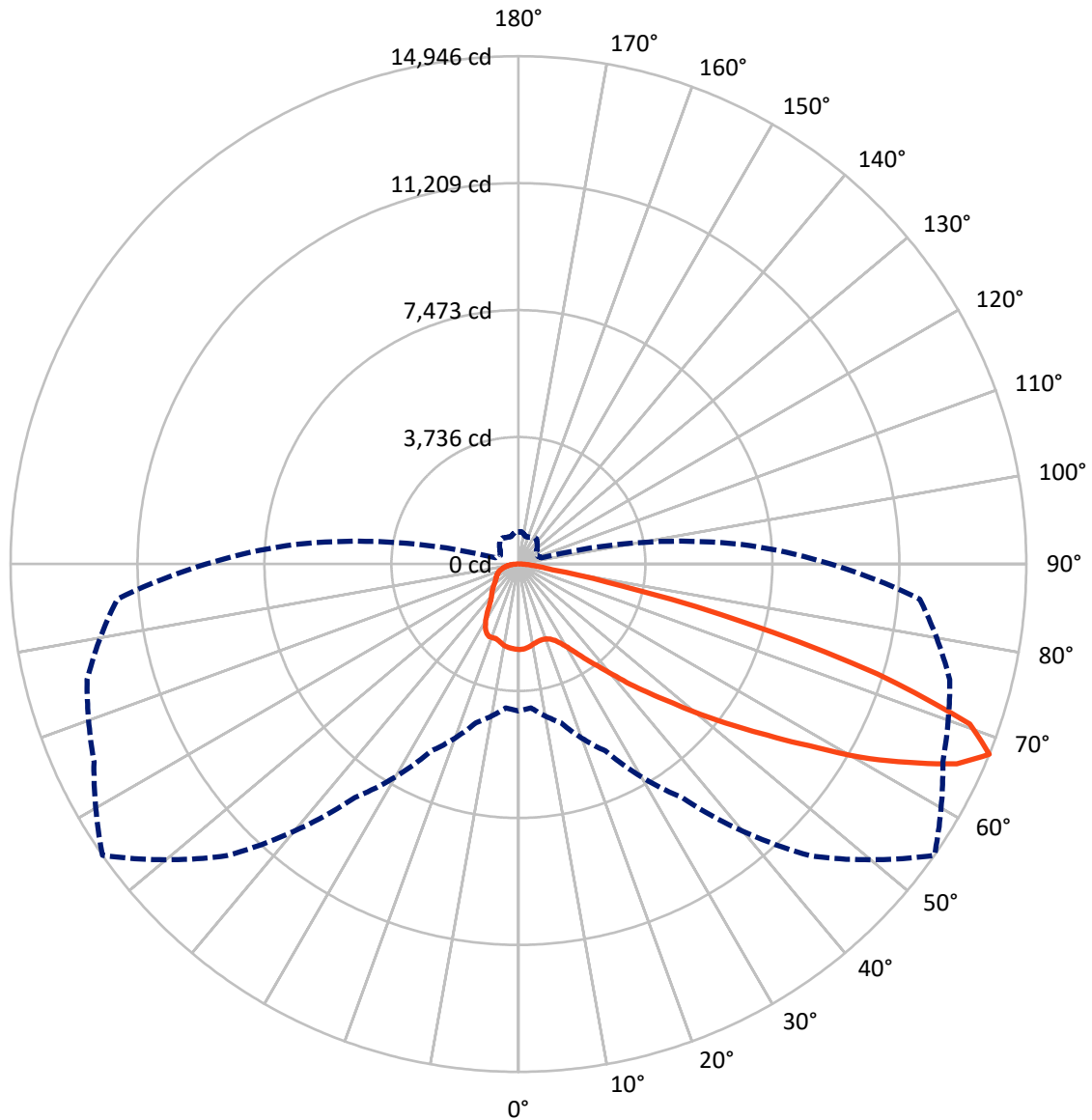
× Max cd
 - - - 1/2 Max cd



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	4406.1	0.0	4406.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	15990.5	0.0	15990.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	20396.6	0.0	20396.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.8	1.2
10°-20°	664.9	3.3
20°-30°	1113.8	5.5
30°-40°	1831.5	9.0
40°-50°	3083.0	15.1
50°-60°	4852.3	23.8
60°-70°	5790.8	28.4
70°-80°	2486.7	12.2
80°-90°	339.0	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°	20396.6	100.0
0°-180°	20396.6	100.0



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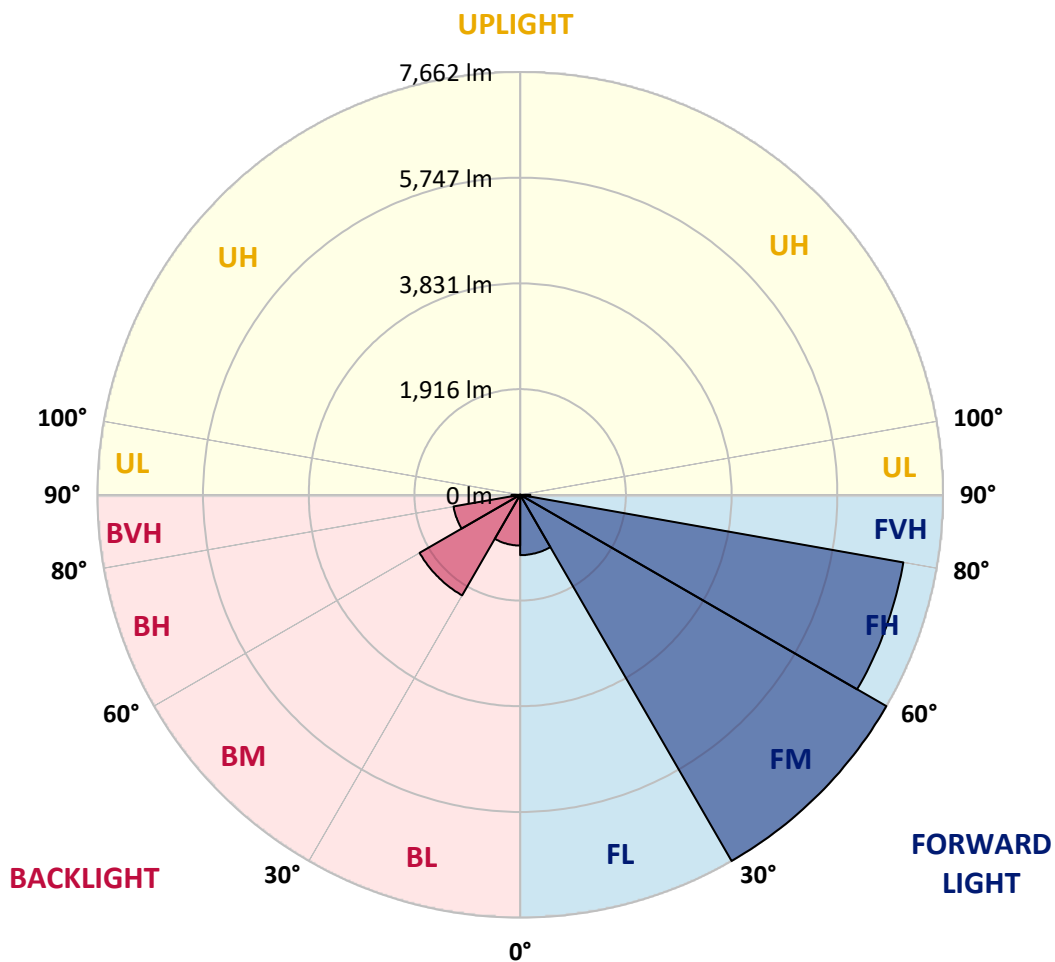
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1093.3	5.4			
FM (30°-60°)	7662.5	37.6			
FH (60°-80°)	7051.2	34.6			G3/7500
FVH (80°-90°)	183.5	0.9			G2/225
BL (0°-30°)	920.1	4.5	B2/1000		
BM (30°-60°)	2104.3	10.3	B2/2500		
BH (60°-80°)	1226.2	6.0	B3/2500		G3/2500
BVH (80°-90°)	155.5	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°	2515.1	2515.1	2515.1	2515.1	2515.1	2515.1	2515.1	2515.1	2515.1	2515.1	2515.1
2.5°	2493.4	2494.5	2496.4	2504.3	2511.1	2509.2	2510.2	2506.2	2505.3	2499.4	2505.3
5°	2461.9	2464.9	2465.8	2478.7	2486.6	2488.5	2485.6	2480.7	2474.7	2468.8	2471.8
7.5°	2390.0	2397.9	2398.9	2416.6	2429.4	2446.2	2447.1	2448.1	2445.2	2441.3	2447.1
10°	2344.7	2346.6	2345.6	2358.5	2368.3	2387.1	2397.9	2416.6	2424.5	2426.4	2430.4
12.5°	2341.7	2339.8	2336.8	2336.8	2333.9	2341.7	2361.5	2388.1	2406.8	2412.6	2417.6
15°	2373.2	2372.3	2362.4	2347.7	2329.0	2323.0	2339.8	2369.4	2393.9	2406.8	2411.7
17.5°	2444.2	2438.3	2422.6	2389.0	2348.6	2332.8	2334.9	2359.4	2388.1	2404.8	2409.7
20°	2574.3	2574.3	2540.7	2477.7	2405.8	2368.3	2350.6	2365.4	2393.0	2415.6	2422.6
22.5°	2798.9	2800.8	2744.7	2641.3	2520.0	2440.2	2396.0	2393.0	2425.5	2451.1	2459.0
25°	3117.0	3109.2	3030.4	2882.6	2698.3	2566.4	2489.6	2471.8	2499.4	2527.9	2537.7
27.5°	3487.4	3458.9	3365.3	3187.0	2948.6	2755.5	2637.3	2608.7	2635.3	2667.9	2677.7
30°	3854.0	3824.4	3713.1	3518.0	3253.0	3008.7	2839.2	2793.0	2830.4	2876.6	2882.6
32.5°	4220.5	4220.5	4096.3	3868.7	3580.1	3311.2	3108.2	3053.0	3115.1	3171.2	3184.0
35°	4658.8	4660.8	4540.7	4266.7	3956.5	3671.7	3448.1	3407.7	3501.3	3540.6	3571.2
37.5°	5197.7	5208.6	5053.9	4722.9	4383.0	4083.5	3817.6	3762.3	3855.9	3963.3	4061.8
40°	5780.0	5793.8	5623.4	5215.4	4875.6	4562.3	4274.6	4175.2	4330.8	4535.7	4662.8
42.5°	6335.5	6406.5	6242.0	5822.3	5456.8	5132.8	4841.1	4696.3	4891.3	5200.7	5311.1
45°	7138.5	7189.7	6903.1	6522.7	6178.9	5816.4	5430.2	5277.5	5550.4	5940.6	5963.2
47.5°	7673.5	7635.0	7489.2	7252.8	7035.0	6696.1	6114.9	5947.4	6310.0	6769.1	6642.0
50°	7958.1	7970.0	7950.3	7964.1	7972.0	7759.2	6954.3	6724.8	7157.2	7711.8	7419.3
52.5°	8224.1	8145.3	8210.4	8533.5	8923.6	8844.8	7867.5	7628.1	8065.6	8758.1	8240.9
55°	8218.3	8098.1	8309.8	8880.2	9726.5	9817.2	8893.1	8617.2	9026.1	9880.2	9111.8
57.5°	7927.7	7933.5	8259.6	9006.4	10286.1	10731.4	10083.1	9669.4	10044.8	11017.1	9906.8
60°	7527.7	7581.8	8051.7	8985.7	10734.3	11481.1	11543.2	10803.3	11042.8	12050.6	10564.9
62.5°	6882.3	6939.5	7587.7	8770.9	10666.4	12203.2	12863.3	12089.9	12086.0	12677.1	10758.0
65°	5864.7	5847.9	6528.7	7968.0	10096.0	12737.2	14174.5	13202.2	12872.2	12686.9	10369.9
67.5°	4324.8	4250.0	4834.2	6068.7	8391.7	12139.2	14945.9	13781.5	13140.1	11852.5	9183.7
70°	2244.3	2169.4	2642.2	3543.6	5518.9	9474.4	14091.8	13482.0	12548.0	9935.4	7194.6
72.5°	959.5	946.7	1138.9	1554.6	2669.8	5464.7	11049.6	11669.3	10766.9	7402.5	4946.5
75°	645.3	641.4	713.3	847.2	1200.9	2217.7	6914.8	8283.2	7877.3	4589.9	2782.1
77.5°	506.4	501.5	543.8	608.9	778.3	874.8	3068.8	4447.1	4116.0	1997.9	1217.6
80°	396.1	392.1	418.7	454.2	559.6	551.7	1009.8	1769.4	1369.4	765.5	592.1
82.5°	312.3	312.3	334.0	334.9	397.0	376.3	527.0	779.3	683.7	446.3	362.5
85°	285.7	285.7	308.3	250.2	259.1	237.4	327.0	462.1	433.4	183.2	157.6
87.5°	143.8	139.9	259.1	221.7	140.9	126.1	159.6	223.6	240.4	101.5	78.8
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°	2515.1	2515.1	2515.1	2515.1	2515.1	2515.1	2515.1	2515.1	2515.1	2515.1
2.5°	2503.3	2502.3	2504.3	2505.3	2513.2	2524.0	2528.9	2535.8	2539.8	2537.7
5°	2473.7	2475.7	2483.6	2489.6	2503.3	2521.1	2530.9	2538.8	2545.7	2542.7
7.5°	2449.1	2454.1	2465.8	2470.8	2478.7	2483.6	2482.6	2485.6	2491.5	2484.5
10°	2435.3	2441.3	2450.1	2443.2	2424.5	2397.9	2373.2	2360.5	2364.3	2359.4
12.5°	2421.5	2429.4	2422.6	2390.0	2337.7	2303.3	2284.6	2286.6	2295.4	2297.4
15°	2413.7	2416.6	2387.1	2326.0	2272.8	2267.9	2277.7	2275.8	2276.7	2276.7
17.5°	2413.7	2405.8	2350.6	2289.6	2266.9	2258.0	2227.5	2189.0	2172.3	2166.4
20°	2426.4	2405.8	2338.8	2298.4	2249.2	2173.3	2092.4	2021.6	1990.0	1981.1
22.5°	2464.9	2429.4	2372.3	2302.4	2162.4	2035.4	1907.3	1822.6	1765.4	1755.6
25°	2542.7	2503.3	2438.3	2250.1	2024.5	1843.3	1697.5	1602.9	1545.7	1537.8
27.5°	2678.7	2653.0	2473.7	2134.9	1841.3	1647.2	1512.2	1439.3	1396.9	1394.0
30°	2883.6	2870.8	2456.0	1964.4	1615.6	1457.1	1392.0	1349.7	1318.2	1317.2
32.5°	3210.6	3107.2	2397.9	1756.5	1409.7	1322.1	1295.5	1269.9	1245.2	1245.2
35°	3631.3	3298.3	2287.5	1533.9	1284.6	1247.2	1213.7	1173.3	1140.8	1138.9
37.5°	4125.9	3416.6	2089.6	1354.6	1225.5	1197.0	1147.8	1087.6	1030.5	1020.6
40°	4625.4	3452.0	1810.7	1244.2	1188.2	1146.7	1086.7	1015.7	960.6	957.6
42.5°	5083.5	3384.0	1515.2	1168.4	1150.7	1095.5	1032.5	969.5	926.1	925.1
45°	5467.7	3207.7	1266.9	1096.5	1111.2	1049.2	993.1	941.8	908.3	901.4
47.5°	5829.2	2958.5	1092.5	1020.6	1071.8	1023.6	976.3	928.0	895.5	890.6
50°	6248.9	2689.5	970.4	946.7	1037.4	1014.8	990.1	939.9	885.7	879.7
52.5°	6757.2	2457.0	874.8	881.7	1010.8	1026.5	1025.5	973.3	878.8	870.8
55°	7324.7	2198.9	802.9	828.5	999.9	1048.2	1034.4	1004.8	884.6	872.9
57.5°	7883.3	1897.5	752.7	788.1	984.2	1046.3	992.1	949.7	898.5	881.7
60°	8302.0	1492.5	714.2	752.7	949.7	1013.7	945.7	889.6	895.5	882.7
62.5°	8329.6	1153.6	668.0	722.1	897.4	981.2	915.2	863.0	908.3	896.5
65°	7839.9	871.9	623.6	685.7	841.4	960.6	885.7	848.2	934.9	922.1
67.5°	6600.6	701.4	586.2	648.2	785.2	917.2	859.1	834.4	958.6	935.9
70°	4765.2	598.0	549.7	602.9	734.9	868.0	835.4	809.8	894.6	859.1
72.5°	2933.8	518.2	508.3	542.8	696.5	816.7	799.9	763.5	805.9	777.3
75°	1465.0	449.3	462.1	483.8	642.3	758.6	740.8	704.4	710.3	704.4
77.5°	701.4	384.2	407.9	424.6	572.3	692.5	673.8	636.4	629.5	630.5
80°	444.3	321.2	343.8	355.7	511.3	615.7	597.0	559.6	638.4	592.1
82.5°	277.8	261.1	267.0	288.7	445.3	535.9	511.3	477.8	575.3	455.1
85°	153.6	182.3	190.2	208.9	342.8	448.3	423.6	381.3	341.9	335.9
87.5°	91.7	108.3	111.3	125.1	230.6	324.1	286.7	271.9	225.6	224.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)