

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: P317591

Luminaire Tested: **GAN-SA7A-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27289 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

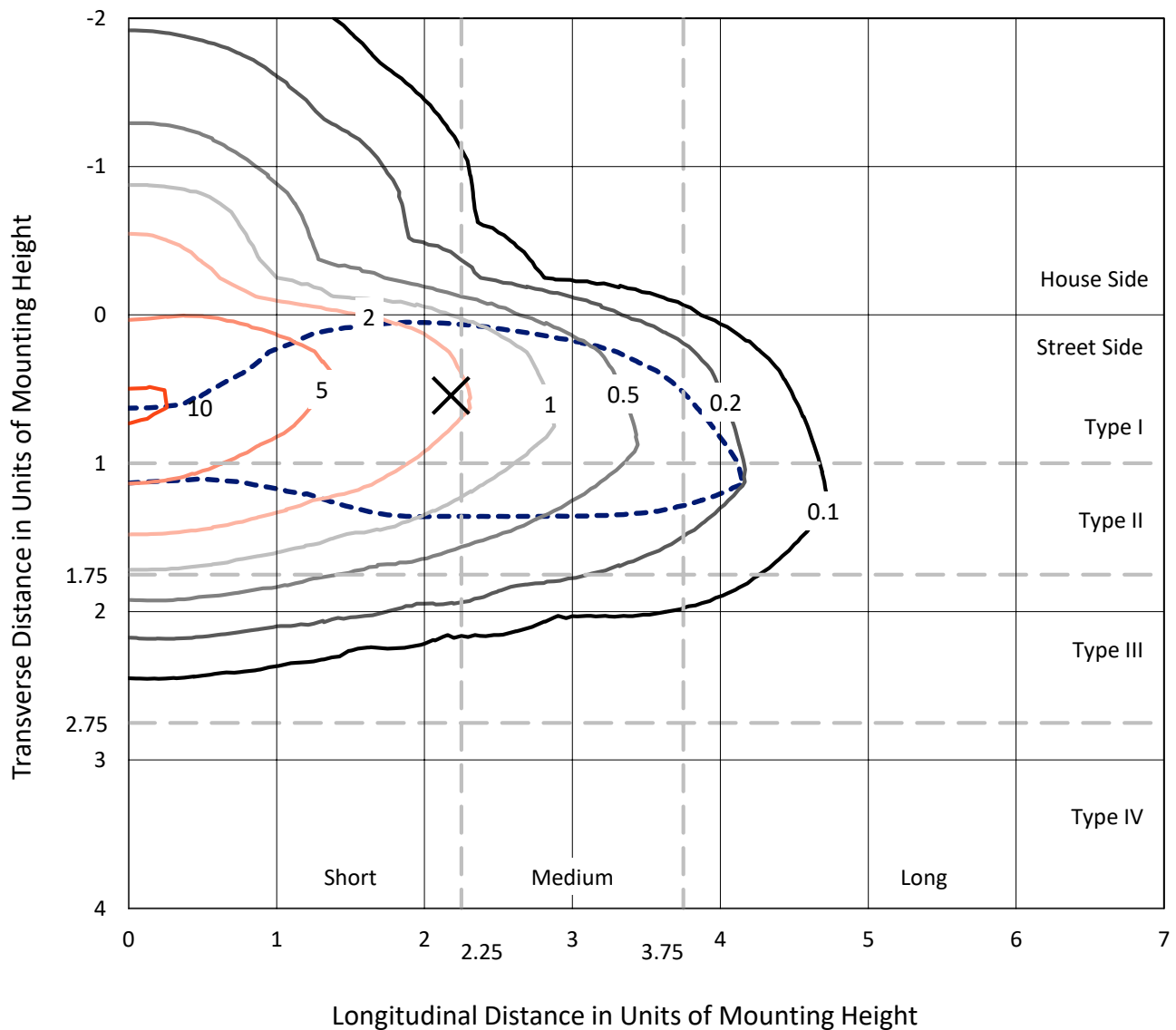
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

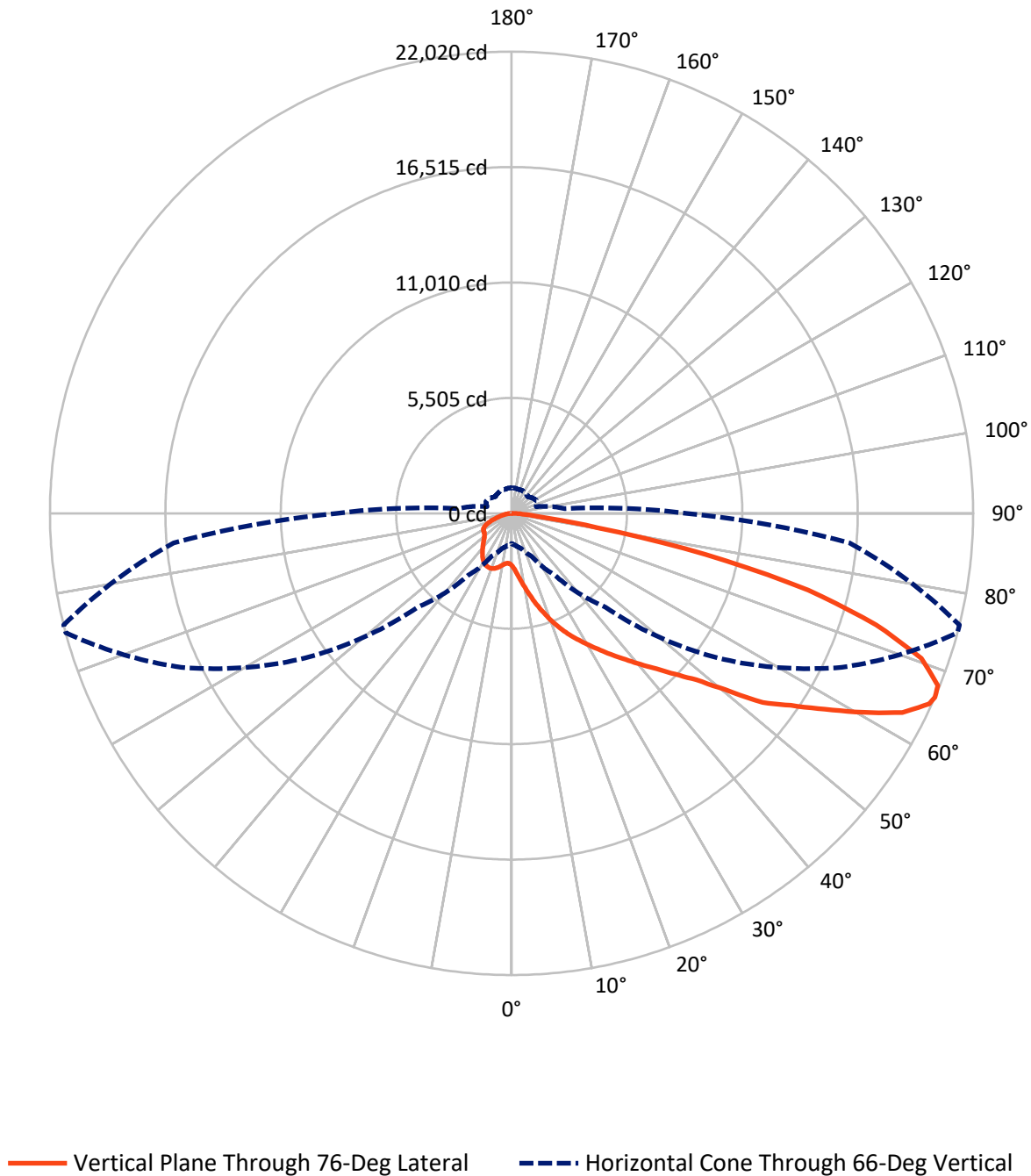
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4591.8	0.0	4591.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	22697.2	0.0	22697.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	27289.0	0.0	27289.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.4	1.1
10°-20°	1190.1	4.4
20°-30°	2312.6	8.5
30°-40°	3774.6	13.8
40°-50°	5157.1	18.9
50°-60°	6006.9	22.0
60°-70°	5385.3	19.7
70°-80°	2721.5	10.0
80°-90°	439.5	1.6
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°	27289.0	100.0
0°-180°	27289.0	100.0

Coefficient of Utilization



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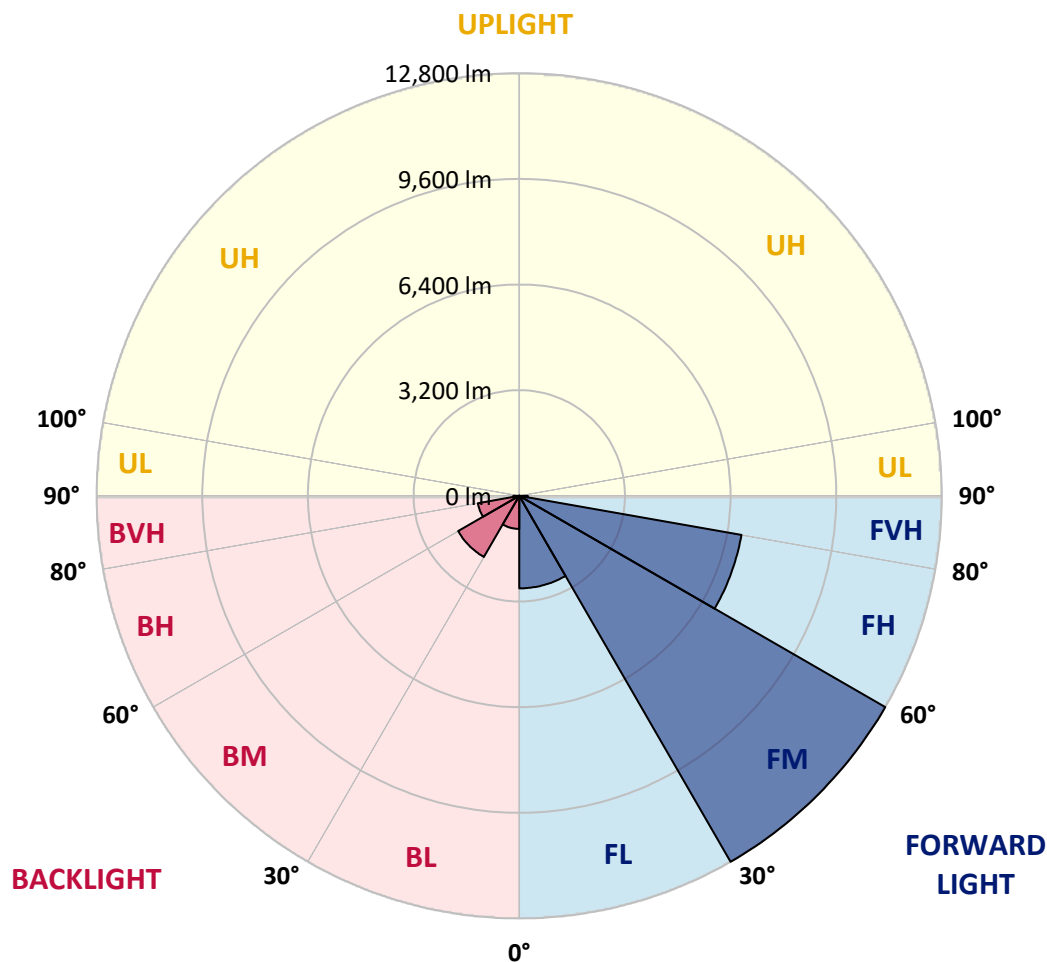
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2802.5	10.3			
FM	(30°-60°)	12800.4	46.9			
FH	(60°-80°)	6834.7	25.0			G3/7500
FVH	(80°-90°)	259.5	1.0			G3/500
BL	(0°-30°)	1001.5	3.7	B3/2500		
BM	(30°-60°)	2138.2	7.8	B2/2500		
BH	(60°-80°)	1272.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	179.9	0.7			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1
2.5°	3308.3	3258.3	3253.6	3180.4	3163.8	3023.9	2921.0	2813.6	2691.3	2667.2	2570.8
5°	4249.5	4244.9	4181.0	4061.5	3967.9	3728.9	3492.6	3242.5	2968.3	2923.8	2707.0
7.5°	5096.3	5088.9	5039.8	4911.0	4775.8	4482.1	4144.9	3761.3	3316.6	3250.8	2891.4
10°	5739.2	5736.5	5719.8	5625.3	5510.4	5228.8	4856.4	4332.9	3721.5	3631.6	3122.1
12.5°	6235.8	6241.4	6252.5	6219.1	6164.5	5924.5	5542.8	4938.8	4153.2	4064.3	3378.7
15°	6572.1	6588.8	6646.2	6693.5	6722.2	6574.9	6205.2	5558.6	4636.8	4530.3	3663.1
17.5°	6741.6	6760.2	6859.3	7002.0	7133.5	7118.7	6825.0	6149.7	5100.9	4998.1	3968.8
20°	6888.0	6901.9	7013.1	7184.5	7417.0	7519.8	7354.9	6718.5	5609.5	5487.3	4293.1
22.5°	7312.3	7329.9	7363.3	7460.6	7666.2	7855.2	7775.5	7256.7	6075.5	5961.6	4600.7
25°	8131.3	8152.6	8080.3	7997.9	8036.8	8168.3	8183.2	7747.7	6548.0	6419.2	4931.4
27.5°	9117.9	9148.5	9025.3	8813.1	8627.9	8576.9	8559.3	8149.8	6999.2	6850.0	5258.4
30°	10084.2	10137.0	9976.7	9701.6	9361.6	9122.6	8945.6	8543.6	7443.9	7301.2	5566.9
32.5°	11028.2	11006.9	10774.4	10505.7	10107.4	9808.1	9380.1	8966.0	7944.2	7780.2	5873.6
35°	11674.9	11682.3	11466.4	11147.8	10767.9	10538.2	9961.9	9421.8	8454.6	8303.6	6221.9
37.5°	12225.2	12190.9	11946.3	11649.0	11321.9	11223.7	10642.8	9923.9	9007.7	8842.8	6592.5
40°	12408.6	12368.8	12208.5	11994.5	11732.3	11724.0	11394.2	10492.8	9633.0	9470.0	7010.3
42.5°	12297.5	12246.5	12180.7	12122.4	12041.8	12078.8	12100.1	11159.8	10320.4	10137.9	7493.9
45°	11887.0	11810.2	11856.5	11983.4	12158.5	12367.9	12737.5	11898.2	11090.3	10937.5	8061.8
47.5°	11256.1	11186.7	11331.2	11602.6	12078.8	12608.7	13340.6	12713.4	12009.3	11857.4	8870.6
50°	10368.6	10389.0	10595.6	11089.4	11809.2	12719.9	14083.6	13792.7	13345.2	13203.5	9974.0
52.5°	8912.3	8916.0	9497.8	10308.4	11331.2	12662.5	14495.9	15172.2	15169.4	14998.0	11024.5
55°	7559.7	7642.1	8102.6	9180.0	10556.7	12432.7	14784.0	15842.9	16367.3	16166.2	12003.8
57.5°	6238.6	6286.8	6723.1	7805.2	9451.5	11820.3	15079.5	16648.0	17747.7	17620.7	13221.1
60°	4735.9	4810.0	5261.2	6260.8	8037.7	10733.6	15107.3	17488.3	19397.6	19269.8	14580.2
62.5°	3073.9	3201.7	3624.2	4560.8	6327.5	9170.7	14462.5	18037.6	20961.4	20916.0	15786.4
65°	1766.7	1863.1	2156.7	2879.3	4365.3	7208.6	12929.3	17826.4	21924.0	21898.1	16237.6
66°	1443.4	1503.6	1728.7	2250.3	3602.0	6330.3	12038.1	17380.8	22019.4	22020.4	16185.7
67.5°	1154.3	1181.2	1282.2	1611.1	2657.9	5017.6	10445.5	16397.8	21900.8	21933.3	15851.2
70°	955.2	969.0	1000.5	1080.2	1450.8	3025.7	7414.2	13843.7	20710.4	20735.4	14545.9
72.5°	856.9	865.3	877.3	888.4	1023.7	1690.7	4528.4	11074.6	18158.1	18190.5	12556.9
75°	776.3	781.0	779.1	780.1	858.8	1077.4	2340.2	8268.4	14682.1	14617.2	9619.1
77.5°	681.9	686.5	677.2	679.1	759.7	828.2	1164.5	5788.3	9908.2	9450.5	5419.6
80°	576.2	579.9	576.2	582.7	661.5	625.3	677.2	3256.4	4381.1	4143.9	1927.0
82.5°	435.4	451.2	462.3	488.2	544.7	444.7	453.0	1268.3	1334.1	1270.1	591.1
85°	190.8	232.5	348.3	373.4	409.5	266.8	297.4	516.9	542.9	526.2	214.9
87.5°	50.0	54.7	172.3	216.8	227.0	120.4	154.7	235.3	248.3	235.3	71.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1
2.5°	2519.9	2474.5	2393.0	2320.7	2266.1	2229.0	2191.9	2173.4	2162.3	2151.2	2153.0
5°	2600.5	2508.8	2368.9	2269.8	2214.2	2179.0	2160.4	2153.0	2148.4	2137.3	2137.3
7.5°	2721.9	2592.2	2399.5	2297.6	2254.0	2227.1	2216.0	2212.3	2206.8	2193.8	2195.6
10°	2874.7	2693.1	2463.4	2364.3	2324.4	2294.8	2279.0	2273.5	2263.3	2248.4	2250.3
12.5°	3054.4	2818.2	2547.7	2443.9	2395.8	2355.9	2330.0	2314.2	2296.6	2277.2	2278.1
15°	3250.8	2954.4	2638.5	2515.3	2449.5	2393.9	2352.2	2325.3	2297.6	2273.5	2272.5
17.5°	3450.0	3085.9	2708.0	2554.2	2465.2	2392.0	2335.5	2293.8	2259.6	2229.9	2227.1
20°	3665.0	3204.5	2746.9	2550.5	2435.6	2348.5	2273.5	2221.6	2183.6	2154.0	2149.3
22.5°	3883.6	3315.7	2753.4	2512.5	2369.8	2263.3	2184.5	2127.1	2088.2	2057.6	2046.5
25°	4083.7	3401.9	2726.5	2439.3	2278.1	2163.2	2086.3	2028.0	1996.5	1960.3	1949.2
27.5°	4266.2	3462.1	2672.8	2345.7	2175.3	2062.2	1990.0	1939.9	1905.7	1877.9	1868.6
30°	4430.2	3494.5	2584.7	2234.6	2069.6	1966.8	1905.7	1871.4	1841.7	1806.5	1800.1
32.5°	4585.8	3494.5	2471.7	2113.2	1965.0	1882.5	1846.4	1825.1	1791.7	1757.4	1748.2
35°	4741.5	3473.2	2338.3	1986.3	1868.6	1822.3	1820.4	1795.4	1744.5	1698.1	1686.1
37.5°	4905.5	3429.7	2188.2	1867.7	1789.9	1795.4	1811.2	1755.6	1683.3	1617.5	1599.9
40°	5090.7	3369.4	2032.6	1764.9	1724.1	1783.4	1786.2	1698.1	1557.3	1497.1	1481.4
42.5°	5308.5	3309.2	1888.1	1674.1	1672.2	1747.3	1738.9	1574.0	1489.7	1459.1	1450.8
45°	5594.7	3274.9	1751.0	1587.9	1631.4	1688.9	1658.3	1505.5	1470.2	1452.6	1445.2
47.5°	6045.9	3292.5	1625.0	1519.3	1590.7	1630.5	1508.2	1477.7	1452.6	1431.3	1423.9
50°	6611.0	3282.3	1523.1	1472.1	1544.4	1569.4	1440.6	1441.5	1428.6	1404.5	1393.4
52.5°	7036.2	3202.7	1457.3	1445.2	1503.6	1461.0	1398.0	1406.3	1399.8	1364.6	1352.6
55°	7446.7	3134.1	1423.9	1435.0	1474.0	1325.7	1348.0	1368.3	1361.9	1327.6	1322.0
57.5°	7957.1	3121.1	1403.5	1437.8	1448.9	1258.1	1299.8	1326.7	1322.0	1307.2	1304.4
60°	8582.5	3124.9	1385.0	1442.5	1421.1	1208.1	1254.4	1288.7	1291.4	1288.7	1286.8
62.5°	8926.2	3023.9	1338.7	1429.5	1372.0	1164.5	1207.1	1257.2	1258.1	1263.7	1262.7
65°	8634.3	2721.9	1252.5	1384.1	1289.6	1128.4	1166.4	1221.0	1207.1	1232.2	1232.2
66°	8350.9	2547.7	1209.9	1354.4	1254.4	1114.5	1153.4	1202.5	1184.9	1219.2	1219.2
67.5°	7771.8	2254.0	1133.0	1291.4	1204.4	1095.0	1138.6	1171.9	1147.8	1198.8	1195.1
70°	6713.9	1743.5	978.3	1148.8	1121.9	1066.3	1118.2	1110.8	1075.6	1153.4	1138.6
72.5°	5660.5	1324.8	785.6	961.6	996.8	1030.2	1089.5	1033.0	988.5	1043.2	1010.7
75°	4392.2	995.9	620.7	747.6	842.1	973.7	1055.2	943.1	879.2	873.6	856.0
77.5°	2374.4	683.7	491.9	570.7	668.9	903.3	1032.0	846.8	750.4	728.2	714.3
80°	940.3	444.7	357.6	432.6	467.8	801.4	976.5	734.7	618.9	596.6	575.3
82.5°	388.2	263.1	230.7	290.0	304.8	685.6	876.4	602.2	478.0	661.5	702.2
85°	166.8	144.5	137.1	150.1	172.3	480.8	697.6	459.5	516.0	460.4	365.9
87.5°	50.0	61.1	58.4	57.4	63.0	114.9	371.5	255.7	378.9	143.6	107.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)