

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: P452938

Luminaire Tested: **GALN-SA3D-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18198 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): 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



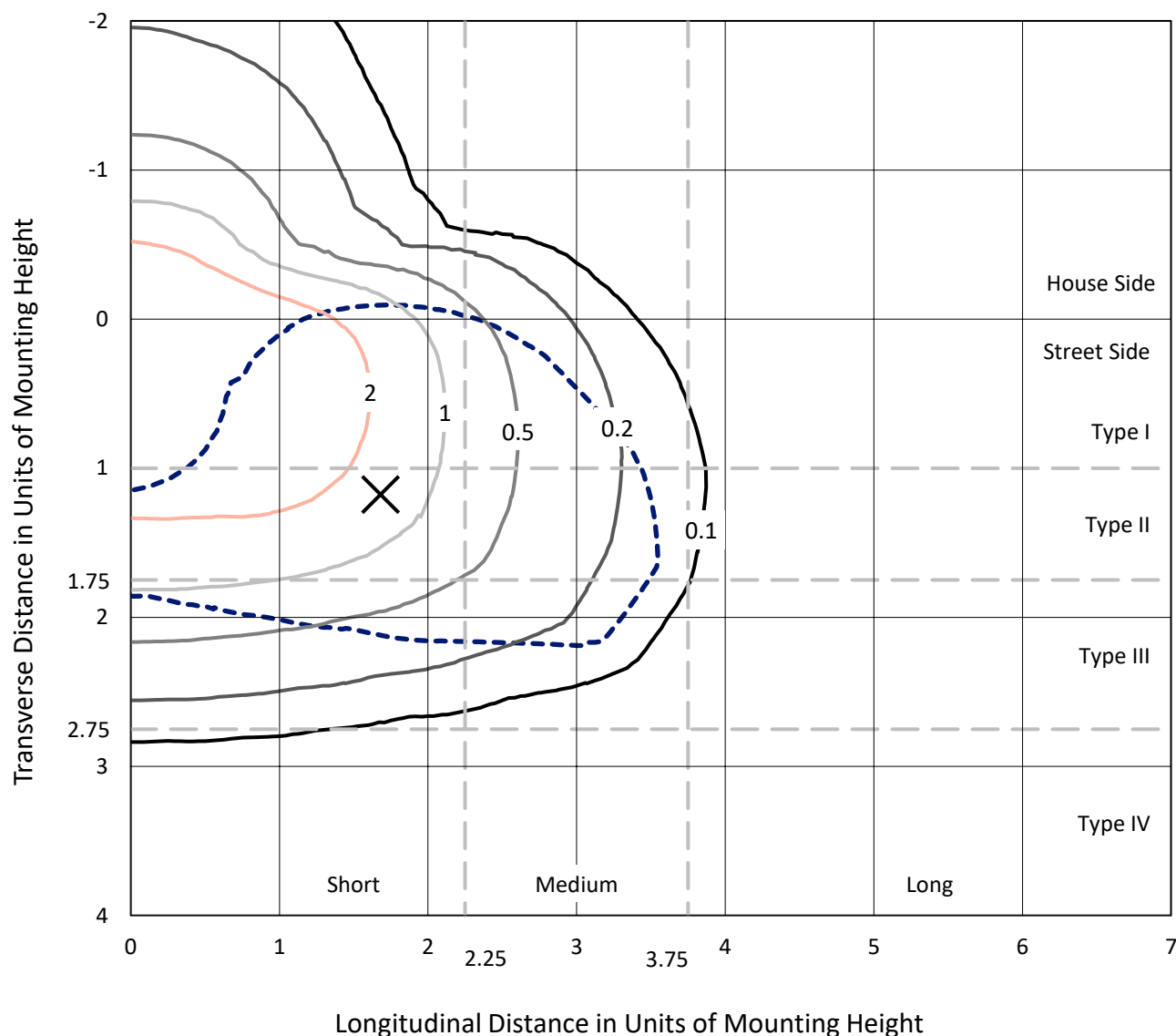
REPORT NUMBER: P452938

CATALOG NUMBER: GALN-SA3D-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



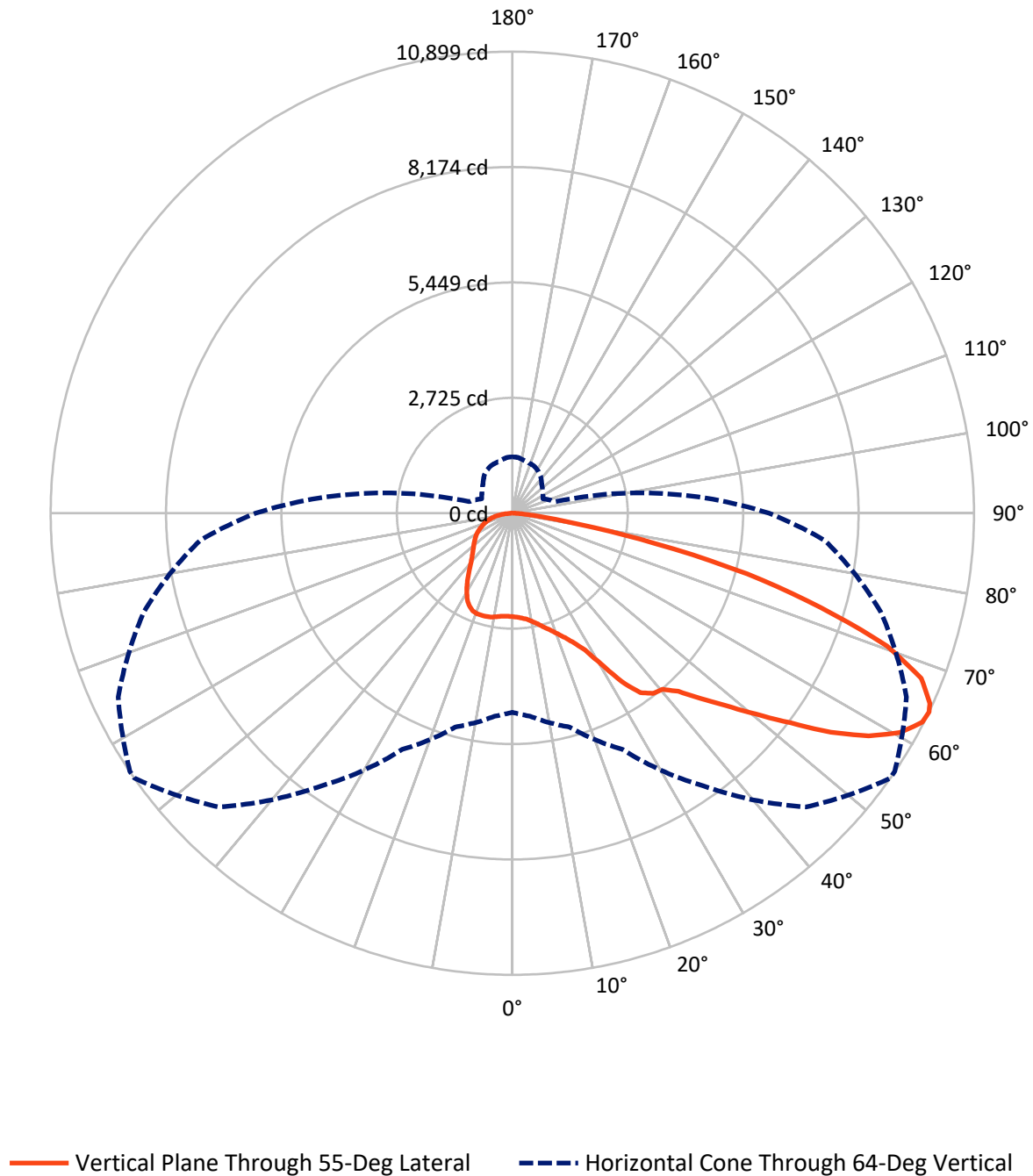
Based on 25 foot mounting height. Maximum calculated value = 4.5 fc

Type III - Short - N/A

REPORT NUMBER: P452938

CATALOG NUMBER: GALN-SA3D-830-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P452938

CATALOG NUMBER: GALN-SA3D-830-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4420.7	0.0	4420.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	13777.4	0.0	13777.4
	% Fixture	75.7	0.0	75.7
Total	Lumens	18198.0	0.0	18198.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.5	1.3
10°-20°	749.4	4.1
20°-30°	1334.1	7.3
30°-40°	2052.7	11.3
40°-50°	2909.9	16.0
50°-60°	4212.0	23.1
60°-70°	4358.9	24.0
70°-80°	2041.3	11.2
80°-90°	302.2	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°	18198.0	100.0
0°-180°	18198.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452938

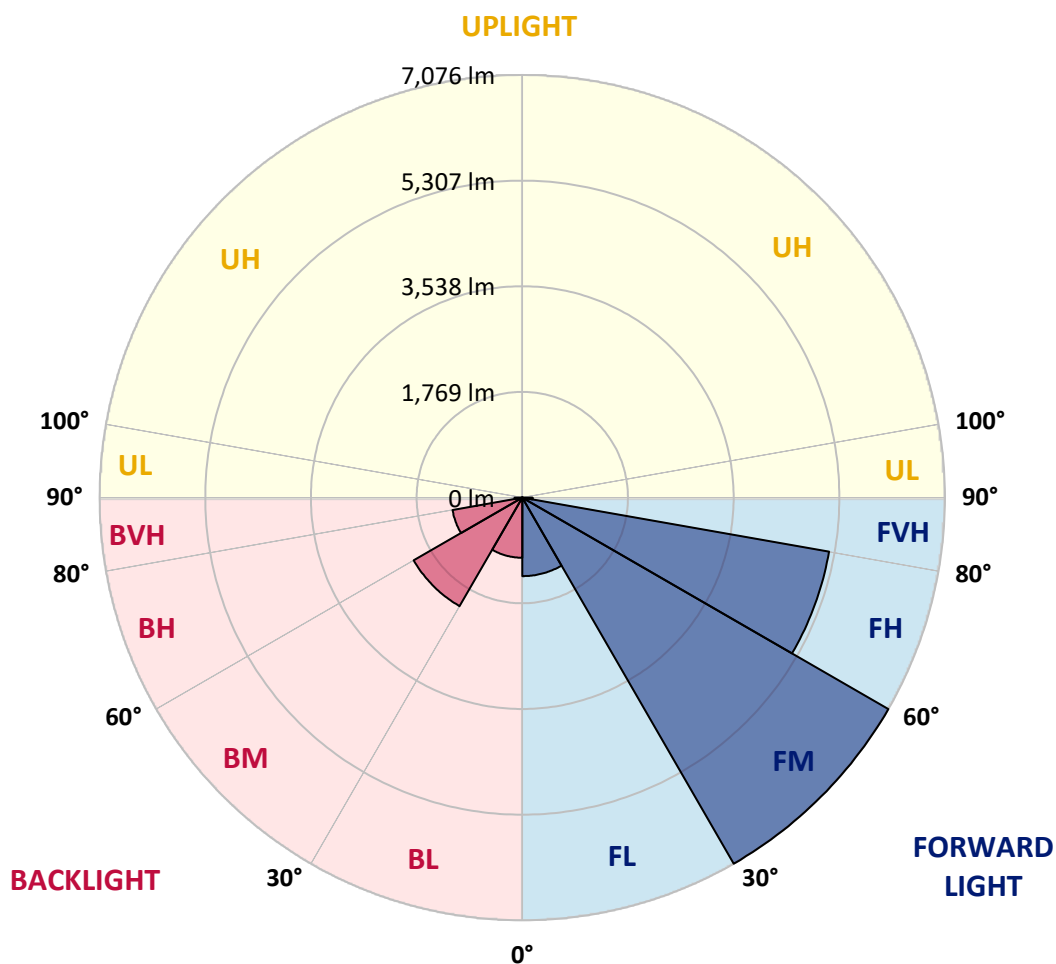
CATALOG NUMBER: GALN-SA3D-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1314.2	7.2			
FM	(30°-60°)	7075.9	38.9			
FH	(60°-80°)	5214.3	28.7			G3/7500
FVH	(80°-90°)	173.0	1.0			G2/225
BL	(0°-30°)	1006.9	5.5	B3/2500		
BM	(30°-60°)	2098.7	11.5	B2/2500		
BH	(60°-80°)	1186.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	129.2	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 III Short





REPORT NUMBER: P452938

CATALOG NUMBER: GALN-SA3D-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2441.6	2441.6	2441.6	2441.6	2441.6	2441.6	2441.6	2441.6	2441.6	2441.6	2441.6
2.5°	2469.0	2468.0	2471.0	2468.0	2470.0	2462.9	2459.9	2461.9	2458.9	2453.8	2444.7
5°	2499.4	2498.4	2499.4	2495.4	2497.4	2493.4	2486.3	2488.3	2483.2	2472.1	2458.9
7.5°	2551.2	2547.1	2547.1	2546.1	2542.0	2536.0	2530.9	2528.9	2523.8	2509.6	2489.3
10°	2618.1	2618.1	2619.1	2611.0	2616.1	2604.9	2599.9	2598.9	2581.6	2563.3	2534.9
12.5°	2706.4	2711.4	2708.4	2704.3	2702.3	2698.3	2681.0	2685.1	2665.8	2634.4	2599.9
15°	2815.9	2824.0	2819.0	2816.9	2811.9	2796.7	2789.6	2786.5	2761.2	2715.5	2669.9
17.5°	2961.0	2950.8	2946.8	2941.7	2920.4	2909.3	2897.1	2895.1	2872.7	2819.0	2748.0
20°	3087.8	3102.0	3093.9	3088.8	3067.5	3046.2	3037.1	3034.0	3014.7	2955.9	2842.3
22.5°	3238.9	3242.0	3245.0	3232.8	3222.7	3206.5	3190.2	3185.2	3178.1	3117.2	2978.2
25°	3400.2	3412.4	3402.2	3390.1	3377.9	3376.9	3392.1	3390.1	3387.0	3328.2	3158.8
27.5°	3662.9	3674.1	3677.1	3664.0	3617.3	3621.4	3655.8	3667.0	3713.7	3616.3	3391.1
30°	3811.0	3822.2	3847.6	3897.3	3971.3	4036.2	4119.4	4144.8	4189.4	4005.8	3667.0
32.5°	3902.3	3906.4	3952.0	4044.3	4266.5	4508.9	4735.1	4744.3	4772.7	4515.0	3919.6
35°	4046.4	4049.4	4085.9	4187.4	4448.1	4851.8	5201.8	5212.9	5189.6	4673.3	4037.2
37.5°	4223.9	4232.0	4255.3	4339.5	4651.0	5138.9	5395.5	5387.4	5180.5	4799.1	4245.2
40°	4482.6	4482.6	4455.2	4568.8	4865.0	5303.2	5463.5	5449.3	5394.5	5163.2	4561.7
42.5°	4710.8	4706.7	4771.7	4848.8	5132.8	5556.8	5748.5	5771.8	5862.1	5620.7	4921.8
45°	5008.0	5026.3	5062.8	5202.8	5588.2	5989.9	6237.4	6259.8	6387.6	6159.3	5342.8
47.5°	5308.3	5314.4	5429.0	5615.6	6152.2	6577.3	6780.1	6816.7	6933.3	6789.3	5796.2
50°	5521.3	5579.1	5762.7	6056.9	6733.5	7293.4	7451.7	7495.3	7701.2	7475.0	6324.7
52.5°	5746.5	5803.3	6027.5	6475.8	7400.9	8025.8	8220.6	8250.0	8464.0	8168.8	6865.4
55°	5939.2	5992.0	6246.6	6847.1	7932.5	8773.4	9126.4	9091.9	9194.4	8703.4	7282.3
57.5°	5970.7	6013.3	6333.8	7084.5	8332.2	9414.5	9920.7	9941.0	9822.3	9103.1	7626.1
60°	5727.2	5814.4	6182.7	7059.1	8511.7	9860.8	10513.1	10527.3	10190.5	9308.0	7763.1
62.5°	5296.1	5287.0	5732.3	6651.3	8260.1	9962.3	10862.0	10846.8	10334.5	9209.6	7630.2
64°	4700.7	4810.2	5226.1	6150.2	7854.4	9806.1	10898.5	10890.4	10265.6	9004.7	7404.0
65°	4337.5	4331.4	4742.2	5740.4	7450.7	9570.7	10833.6	10822.5	10121.5	8821.1	7228.5
67.5°	3131.4	3145.6	3551.4	4429.8	6056.9	8650.7	10410.6	10369.0	9553.5	8212.5	6561.0
70°	1896.9	1905.0	2223.5	2938.7	4347.6	6993.2	9384.1	9386.1	8684.1	7303.6	5584.2
72.5°	999.2	1020.5	1148.3	1668.7	2640.4	4906.6	7613.0	7793.5	7455.7	6233.4	4411.6
75°	555.9	558.9	649.2	822.7	1347.1	2745.9	5722.1	5773.9	5902.7	5017.1	3262.3
77.5°	424.0	430.1	458.5	531.5	733.4	1273.1	3463.1	3722.8	4160.0	3537.2	1861.4
80°	343.9	350.0	374.3	417.9	487.9	603.6	1608.8	1748.8	2226.6	1570.3	726.3
82.5°	267.8	263.7	295.2	323.6	355.0	357.1	660.4	730.4	906.9	675.6	314.5
85°	198.8	198.8	224.2	218.1	229.3	209.0	291.1	321.6	363.1	287.1	146.1
87.5°	79.1	87.2	147.1	131.9	102.5	82.2	107.5	113.6	125.8	112.6	60.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P452938

CATALOG NUMBER: GALN-SA3D-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2441.6	2441.6	2441.6	2441.6	2441.6	2441.6	2441.6	2441.6	2441.6	2441.6	2441.6
2.5°	2445.7	2448.7	2441.6	2436.6	2434.5	2431.5	2428.4	2429.4	2433.5	2437.6	2436.6
5°	2457.9	2458.9	2446.7	2440.6	2436.6	2432.5	2432.5	2435.5	2443.7	2449.7	2449.7
7.5°	2488.3	2488.3	2471.0	2459.9	2453.8	2446.7	2444.7	2445.7	2451.8	2459.9	2460.9
10°	2536.0	2531.9	2509.6	2492.3	2481.2	2463.9	2448.7	2440.6	2443.7	2448.7	2448.7
12.5°	2593.8	2582.6	2554.2	2530.9	2503.5	2471.0	2439.6	2423.4	2422.3	2427.4	2425.4
15°	2655.7	2643.5	2603.9	2561.3	2513.6	2466.0	2428.4	2405.1	2386.8	2381.8	2392.9
17.5°	2727.7	2702.3	2647.5	2588.7	2517.7	2455.8	2397.0	2349.3	2316.9	2307.7	2310.8
20°	2814.9	2781.4	2707.4	2615.1	2514.7	2419.3	2328.0	2264.1	2211.4	2195.1	2197.2
22.5°	2935.6	2877.8	2769.3	2628.3	2489.3	2350.3	2223.5	2140.4	2076.4	2051.1	2066.3
25°	3072.6	3009.7	2828.1	2625.2	2423.4	2239.8	2099.8	1991.2	1933.4	1895.9	1904.0
27.5°	3261.2	3149.7	2891.0	2597.8	2329.0	2104.8	1942.5	1840.1	1787.3	1768.1	1777.2
30°	3502.7	3331.2	2959.0	2523.8	2179.9	1934.4	1784.3	1717.4	1685.9	1661.6	1669.7
32.5°	3677.1	3459.0	2974.2	2399.0	2018.6	1779.2	1676.8	1627.1	1592.6	1569.3	1574.3
35°	3801.9	3567.6	2967.1	2245.8	1850.2	1651.4	1591.6	1551.0	1495.2	1444.5	1435.4
37.5°	3969.3	3703.5	2915.3	2078.5	1683.9	1565.2	1522.6	1447.5	1367.4	1299.4	1296.4
40°	4225.9	3862.8	2804.8	1881.7	1541.9	1501.3	1449.6	1352.2	1266.0	1211.2	1207.1
42.5°	4490.7	4009.9	2654.6	1674.7	1425.2	1434.3	1371.4	1275.1	1222.3	1186.8	1182.8
45°	4814.3	4169.1	2492.3	1495.2	1339.0	1371.4	1303.5	1247.7	1216.2	1192.9	1186.8
47.5°	5164.2	4332.4	2309.8	1333.9	1266.0	1313.6	1275.1	1249.7	1232.5	1216.2	1209.1
50°	5541.6	4515.0	2138.3	1204.1	1200.0	1253.8	1272.0	1262.9	1252.8	1247.7	1241.6
52.5°	5955.4	4701.7	1994.3	1112.8	1142.2	1211.2	1273.1	1280.2	1280.2	1277.1	1273.1
55°	6235.4	4831.5	1848.2	1038.7	1083.4	1176.7	1271.0	1298.4	1308.6	1304.5	1300.4
57.5°	6442.4	4902.5	1664.6	974.8	1033.7	1143.2	1259.9	1300.4	1310.6	1315.7	1313.6
60°	6485.0	4836.6	1424.2	907.9	979.9	1094.5	1219.3	1270.0	1283.2	1314.6	1317.7
62.5°	6293.2	4633.7	1184.8	841.9	914.0	1020.5	1164.5	1235.5	1261.9	1310.6	1315.7
64°	6057.9	4406.5	1051.9	800.3	871.4	978.9	1137.1	1226.4	1260.9	1325.8	1329.9
65°	5885.5	4241.1	968.7	774.0	844.0	951.5	1121.9	1229.4	1270.0	1349.1	1355.2
67.5°	5250.5	3672.1	801.4	712.1	779.0	904.8	1125.0	1254.8	1268.0	1358.3	1357.2
70°	4344.6	2923.5	671.5	655.3	716.2	867.3	1112.8	1214.2	1215.2	1275.1	1260.9
72.5°	3253.1	2160.6	582.3	596.5	646.2	778.0	1050.9	1159.4	1142.2	1150.3	1136.1
75°	2234.7	1429.3	501.1	533.6	573.1	687.8	963.7	1052.9	1025.5	1015.4	1005.3
77.5°	1192.9	790.2	416.9	471.7	498.1	594.4	840.9	927.1	898.7	859.2	846.0
80°	482.8	372.3	335.8	390.5	405.8	478.8	699.9	753.7	732.4	663.4	641.1
82.5°	242.4	223.2	263.7	307.4	308.4	341.8	520.4	571.1	523.4	439.2	420.0
85°	126.8	130.9	181.6	216.1	190.7	184.6	312.4	345.9	317.5	275.9	248.5
87.5°	45.6	52.7	95.4	94.3	66.9	35.5	69.0	33.5	18.3	11.2	14.2
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)