

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: P452561

Luminaire Tested: **GALN-SA3C-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452561
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-SA3C-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18954 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

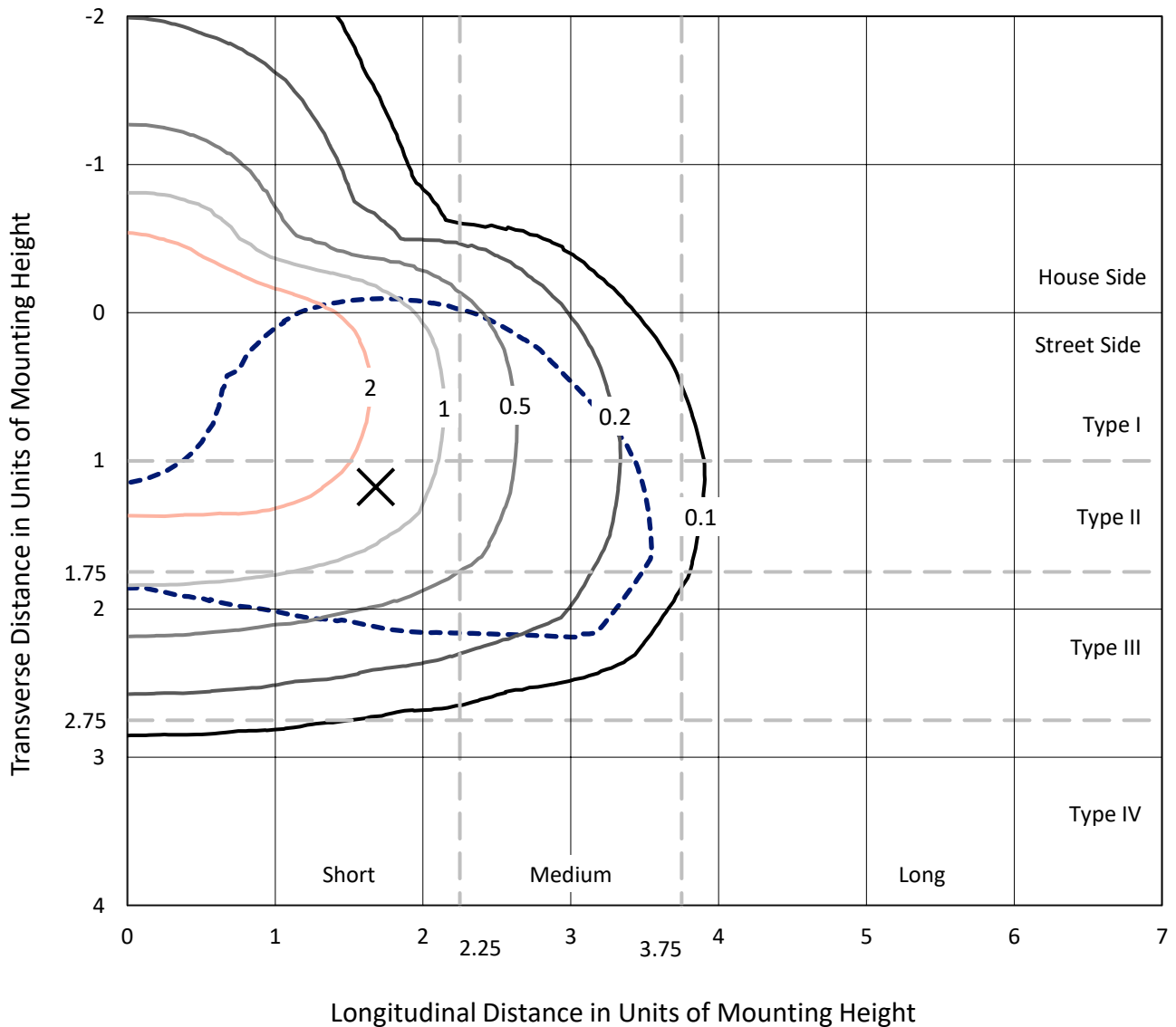
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

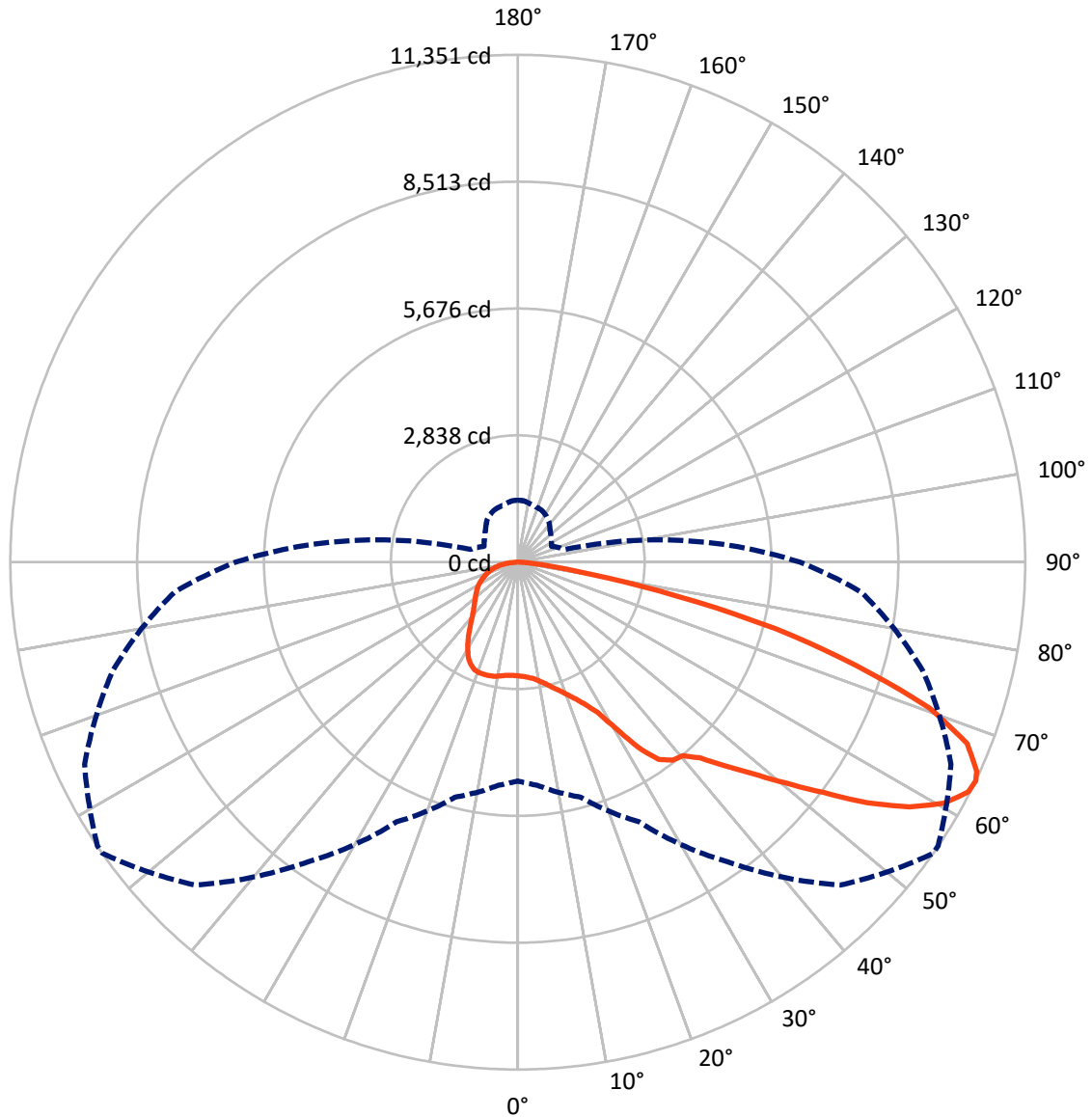
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4604.3	0.0	4604.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	14349.7	0.0	14349.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	18954.0	0.0	18954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.4	1.3
10°-20°	780.5	4.1
20°-30°	1389.6	7.3
30°-40°	2138.0	11.3
40°-50°	3030.8	16.0
50°-60°	4386.9	23.1
60°-70°	4540.0	24.0
70°-80°	2126.1	11.2
80°-90°	314.7	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°	18954.0	100.0
0°-180°	18954.0	100.0

Coefficient of Utilization



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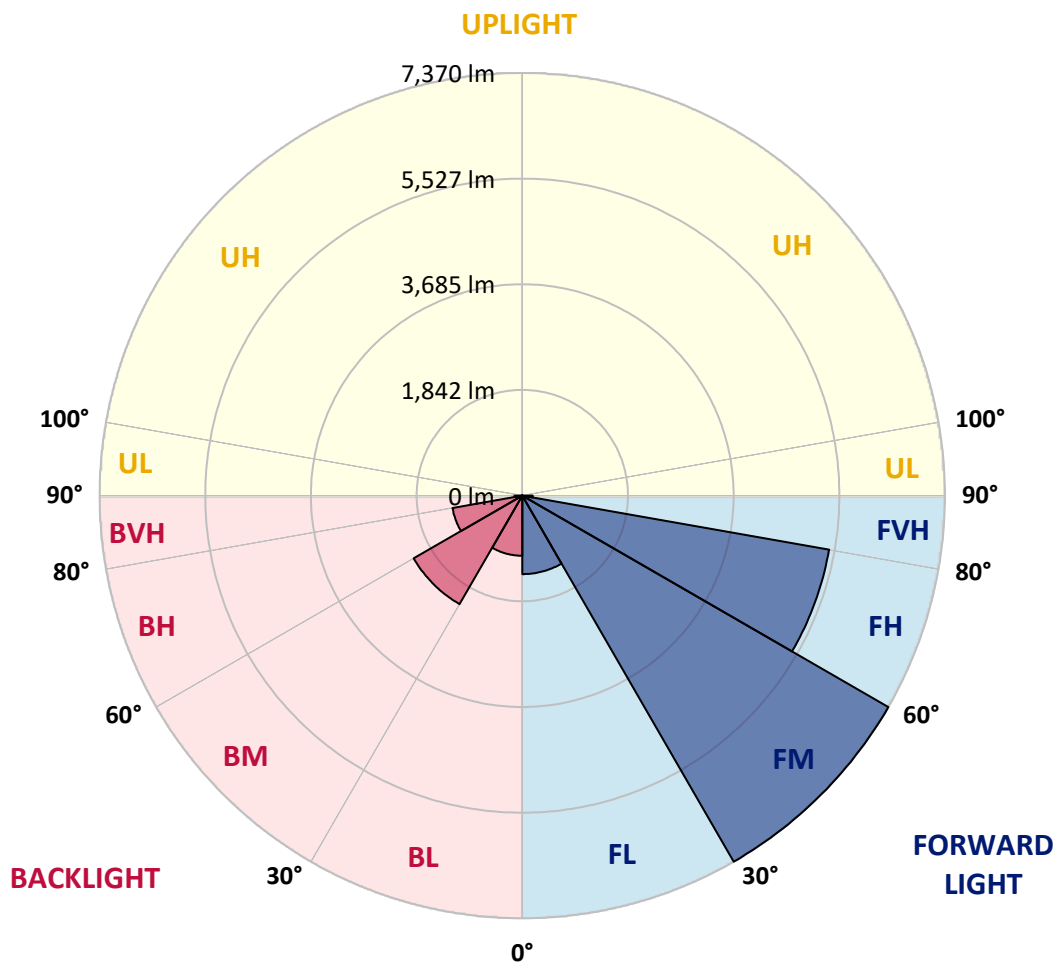
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1368.8	7.2			
FM	(30°-60°)	7369.8	38.9			
FH	(60°-80°)	5430.9	28.7			G3/7500
FVH	(80°-90°)	180.2	1.0			G2/225
BL	(0°-30°)	1048.7	5.5	B3/2500		
BM	(30°-60°)	2185.8	11.5	B2/2500		
BH	(60°-80°)	1235.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	134.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2543.1	2543.1	2543.1	2543.1	2543.1	2543.1	2543.1	2543.1	2543.1	2543.1	2543.1
2.5°	2571.6	2570.5	2573.7	2570.5	2572.6	2565.2	2562.1	2564.2	2561.0	2555.7	2546.2
5°	2603.3	2602.2	2603.3	2599.1	2601.2	2596.9	2589.5	2591.7	2586.4	2574.8	2561.0
7.5°	2657.2	2652.9	2652.9	2651.9	2647.7	2641.3	2636.0	2633.9	2628.6	2613.8	2592.7
10°	2726.9	2726.9	2727.9	2719.5	2724.8	2713.2	2707.9	2706.8	2688.9	2669.8	2640.3
12.5°	2818.8	2824.1	2820.9	2816.7	2814.6	2810.4	2792.4	2796.6	2776.5	2743.8	2707.9
15°	2932.9	2941.4	2936.1	2934.0	2928.7	2912.8	2905.4	2902.3	2875.9	2828.3	2780.8
17.5°	3084.0	3073.4	3069.2	3063.9	3041.7	3030.1	3017.4	3015.3	2992.1	2936.1	2862.1
20°	3216.1	3230.9	3222.4	3217.1	3194.9	3172.7	3163.2	3160.1	3140.0	3078.7	2960.4
22.5°	3373.5	3376.7	3379.8	3367.1	3356.6	3339.7	3322.8	3317.5	3310.1	3246.7	3102.0
25°	3541.5	3554.1	3543.6	3530.9	3518.2	3517.2	3533.0	3530.9	3527.7	3466.5	3290.0
27.5°	3815.1	3826.7	3829.9	3816.2	3767.6	3771.8	3807.7	3819.3	3867.9	3766.5	3532.0
30°	3969.4	3981.0	4007.4	4059.2	4136.3	4203.9	4290.5	4317.0	4363.4	4172.2	3819.3
32.5°	4064.5	4068.7	4116.2	4212.4	4443.7	4696.3	4931.9	4941.4	4970.9	4702.6	4082.4
35°	4214.5	4217.6	4255.7	4361.3	4632.9	5053.4	5417.9	5429.5	5405.2	4867.4	4205.0
37.5°	4399.4	4407.8	4432.1	4519.8	4844.2	5352.4	5619.7	5611.2	5395.7	4998.4	4421.6
40°	4668.8	4668.8	4640.3	4758.6	5067.1	5523.5	5690.4	5675.7	5618.6	5377.7	4751.2
42.5°	4906.5	4902.3	4969.9	5050.2	5346.0	5787.6	5987.3	6011.6	6105.7	5854.2	5126.3
45°	5216.1	5235.1	5273.1	5418.9	5820.4	6238.8	6496.6	6519.8	6652.9	6415.2	5564.7
47.5°	5528.8	5535.1	5654.5	5848.9	6407.8	6850.5	7061.8	7099.8	7221.3	7071.3	6037.0
50°	5750.7	5810.9	6002.1	6308.5	7013.2	7596.4	7761.2	7806.7	8021.1	7785.5	6587.4
52.5°	5985.2	6044.4	6277.9	6744.9	7708.4	8359.2	8562.1	8592.7	8815.6	8508.2	7150.6
55°	6186.0	6240.9	6506.1	7131.5	8262.0	9137.9	9505.6	9469.6	9576.3	9065.0	7584.8
57.5°	6218.7	6263.1	6596.9	7378.8	8678.3	9805.6	10332.8	10353.9	10230.3	9481.3	7943.0
60°	5965.1	6056.0	6439.5	7352.4	8865.3	10270.5	10949.8	10964.6	10613.8	9694.7	8085.6
62.5°	5516.1	5506.6	5970.4	6927.6	8603.3	10376.1	11313.3	11297.4	10763.9	9592.2	7947.2
64°	4895.9	5010.0	5443.2	6405.7	8180.7	10213.4	11351.3	11342.8	10692.0	9378.8	7711.6
65°	4517.7	4511.4	4939.3	5978.9	7760.2	9968.3	11283.7	11272.1	10542.0	9187.5	7528.8
67.5°	3261.5	3276.3	3698.9	4613.8	6308.5	9010.0	10843.1	10799.8	9950.3	8553.6	6833.6
70°	1975.7	1984.2	2315.9	3060.8	4528.3	7283.7	9773.9	9776.0	9044.9	7607.0	5816.2
72.5°	1040.7	1062.9	1196.0	1738.0	2750.1	5110.4	7929.2	8117.3	7765.5	6492.3	4594.8
75°	579.0	582.1	676.2	856.8	1403.1	2860.0	5959.9	6013.7	6147.9	5225.6	3397.8
77.5°	441.6	448.0	477.5	553.6	763.9	1325.9	3607.0	3877.4	4332.8	3684.1	1938.7
80°	358.2	364.5	389.9	435.3	508.2	628.6	1675.6	1821.4	2319.1	1635.5	756.5
82.5°	278.9	274.7	307.4	337.0	369.8	371.9	687.8	760.7	944.5	703.6	327.5
85°	207.1	207.1	233.5	227.2	238.8	217.6	303.2	334.9	378.2	299.0	152.1
87.5°	82.4	90.9	153.2	137.3	106.7	85.6	112.0	118.3	131.0	117.3	63.4
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°	2543.1	2543.1	2543.1	2543.1	2543.1	2543.1	2543.1	2543.1	2543.1	2543.1	2543.1
2.5°	2547.3	2550.5	2543.1	2537.8	2535.7	2532.5	2529.3	2530.4	2534.6	2538.8	2537.8
5°	2560.0	2561.0	2548.3	2542.0	2537.8	2533.5	2533.5	2536.7	2545.2	2551.5	2551.5
7.5°	2591.7	2591.7	2573.7	2562.1	2555.7	2548.3	2546.2	2547.3	2553.6	2562.1	2563.1
10°	2641.3	2637.1	2613.8	2595.9	2584.3	2566.3	2550.5	2542.0	2545.2	2550.5	2550.5
12.5°	2701.5	2689.9	2660.3	2636.0	2607.5	2573.7	2540.9	2524.0	2523.0	2528.3	2526.2
15°	2766.0	2753.3	2712.1	2667.7	2618.1	2568.4	2529.3	2505.0	2486.0	2480.7	2492.3
17.5°	2841.0	2814.6	2757.5	2696.3	2622.3	2557.8	2496.6	2446.9	2413.1	2403.6	2406.8
20°	2931.9	2897.0	2819.9	2723.7	2619.1	2519.8	2424.7	2358.2	2303.2	2286.3	2288.4
22.5°	3057.6	2997.4	2884.3	2737.5	2592.7	2448.0	2315.9	2229.3	2162.7	2136.3	2152.1
25°	3200.2	3134.7	2945.6	2734.3	2524.0	2332.8	2187.0	2074.0	2013.7	1974.6	1983.1
27.5°	3396.7	3280.5	3011.1	2705.8	2425.8	2192.3	2023.2	1916.5	1861.6	1841.5	1851.0
30°	3648.2	3469.6	3081.9	2628.6	2270.5	2014.8	1858.4	1788.7	1755.9	1730.6	1739.0
32.5°	3829.9	3602.7	3097.7	2498.7	2102.5	1853.1	1746.4	1694.7	1658.7	1634.4	1639.7
35°	3959.9	3715.8	3090.3	2339.1	1927.1	1720.0	1657.7	1615.4	1557.3	1504.5	1495.0
37.5°	4134.2	3857.4	3036.5	2164.8	1753.8	1630.2	1585.8	1507.7	1424.2	1353.4	1350.2
40°	4401.5	4023.2	2921.3	1959.9	1605.9	1563.7	1509.8	1408.3	1318.5	1261.5	1257.3
42.5°	4677.2	4176.4	2764.9	1744.3	1484.4	1493.9	1428.4	1328.1	1273.1	1236.1	1231.9
45°	5014.3	4342.3	2595.9	1557.3	1394.6	1428.4	1357.6	1299.5	1266.8	1242.5	1236.1
47.5°	5378.8	4512.4	2405.7	1389.3	1318.5	1368.2	1328.1	1301.6	1283.7	1266.8	1259.4
50°	5771.8	4702.6	2227.2	1254.1	1249.9	1305.9	1324.9	1315.4	1304.8	1299.5	1293.2
52.5°	6202.9	4897.0	2077.1	1159.0	1189.6	1261.5	1325.9	1333.3	1333.3	1330.2	1325.9
55°	6494.5	5032.2	1925.0	1081.9	1128.4	1225.6	1323.8	1352.4	1362.9	1358.7	1354.5
57.5°	6710.0	5106.2	1733.8	1015.3	1076.6	1190.7	1312.2	1354.5	1365.0	1370.3	1368.2
60°	6754.4	5037.5	1483.4	945.6	1020.6	1140.0	1269.9	1322.8	1336.5	1369.3	1372.4
62.5°	6554.7	4826.2	1234.0	876.9	951.9	1062.9	1212.9	1286.8	1314.3	1365.0	1370.3
64°	6309.6	4589.5	1095.6	833.6	907.6	1019.5	1184.4	1277.3	1313.3	1380.9	1385.1
65°	6130.0	4417.3	1009.0	806.1	879.0	991.0	1168.5	1280.5	1322.8	1405.2	1411.5
67.5°	5468.6	3824.6	834.7	741.7	811.4	942.4	1171.7	1306.9	1320.7	1414.7	1413.6
70°	4525.1	3044.9	699.4	682.5	745.9	903.3	1159.0	1264.7	1265.7	1328.1	1313.3
72.5°	3388.3	2250.4	606.4	621.2	673.0	810.4	1094.6	1207.6	1189.6	1198.1	1183.3
75°	2327.5	1488.6	521.9	555.7	596.9	716.3	1003.7	1096.7	1068.1	1057.6	1047.0
77.5°	1242.5	823.0	434.2	491.3	518.8	619.1	875.9	965.7	936.1	894.9	881.1
80°	502.9	387.7	349.7	406.8	422.6	498.7	729.0	785.0	762.8	691.0	667.7
82.5°	252.5	232.4	274.7	320.1	321.2	356.0	542.0	594.8	545.2	457.5	437.4
85°	132.1	136.3	189.1	225.0	198.6	192.3	325.4	360.3	330.7	287.4	258.8
87.5°	47.5	54.9	99.3	98.3	69.7	37.0	71.8	34.9	19.0	11.6	14.8
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)