

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: P453261

Luminaire Tested: **GALN-SA4B-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20455 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

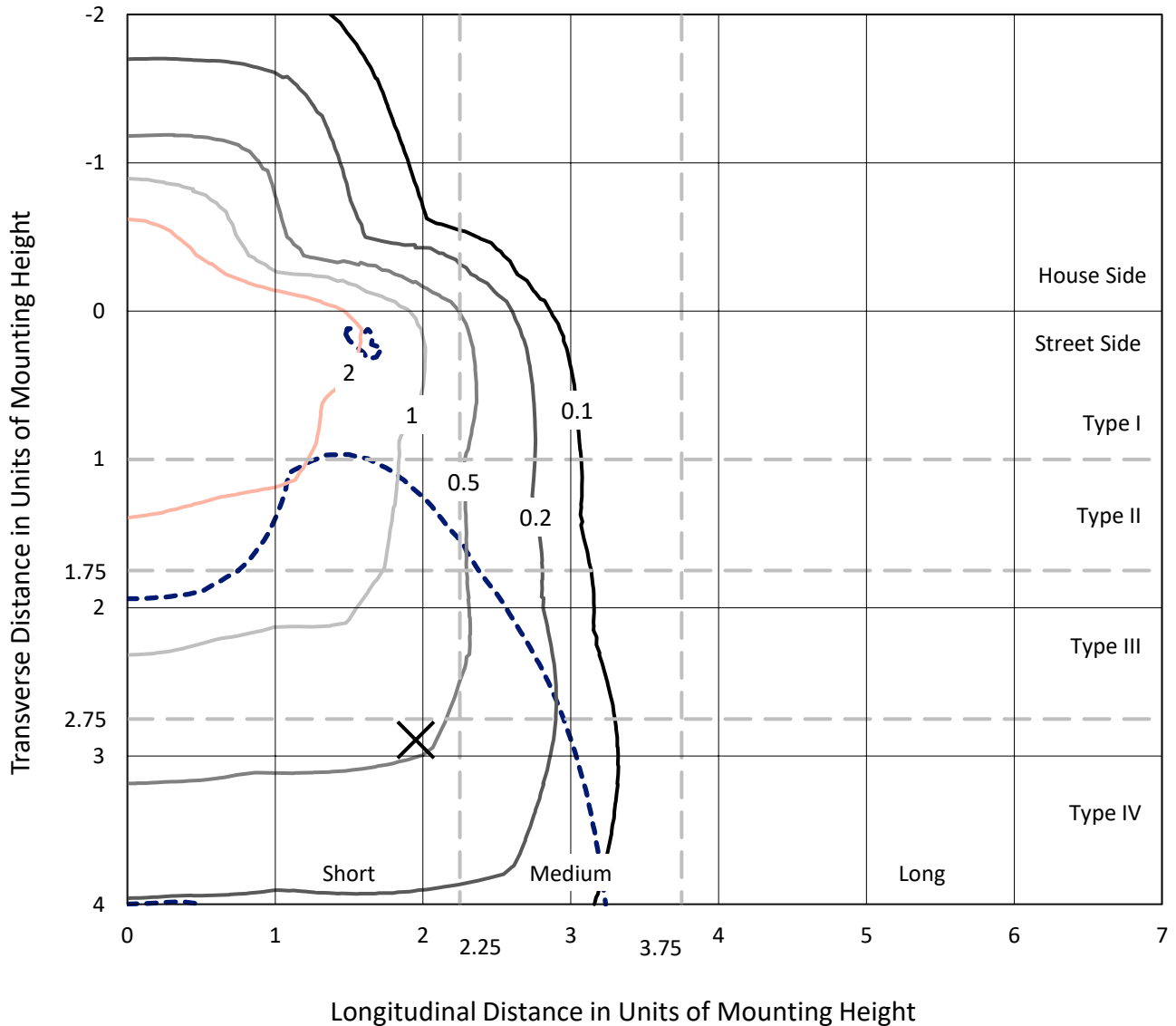
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

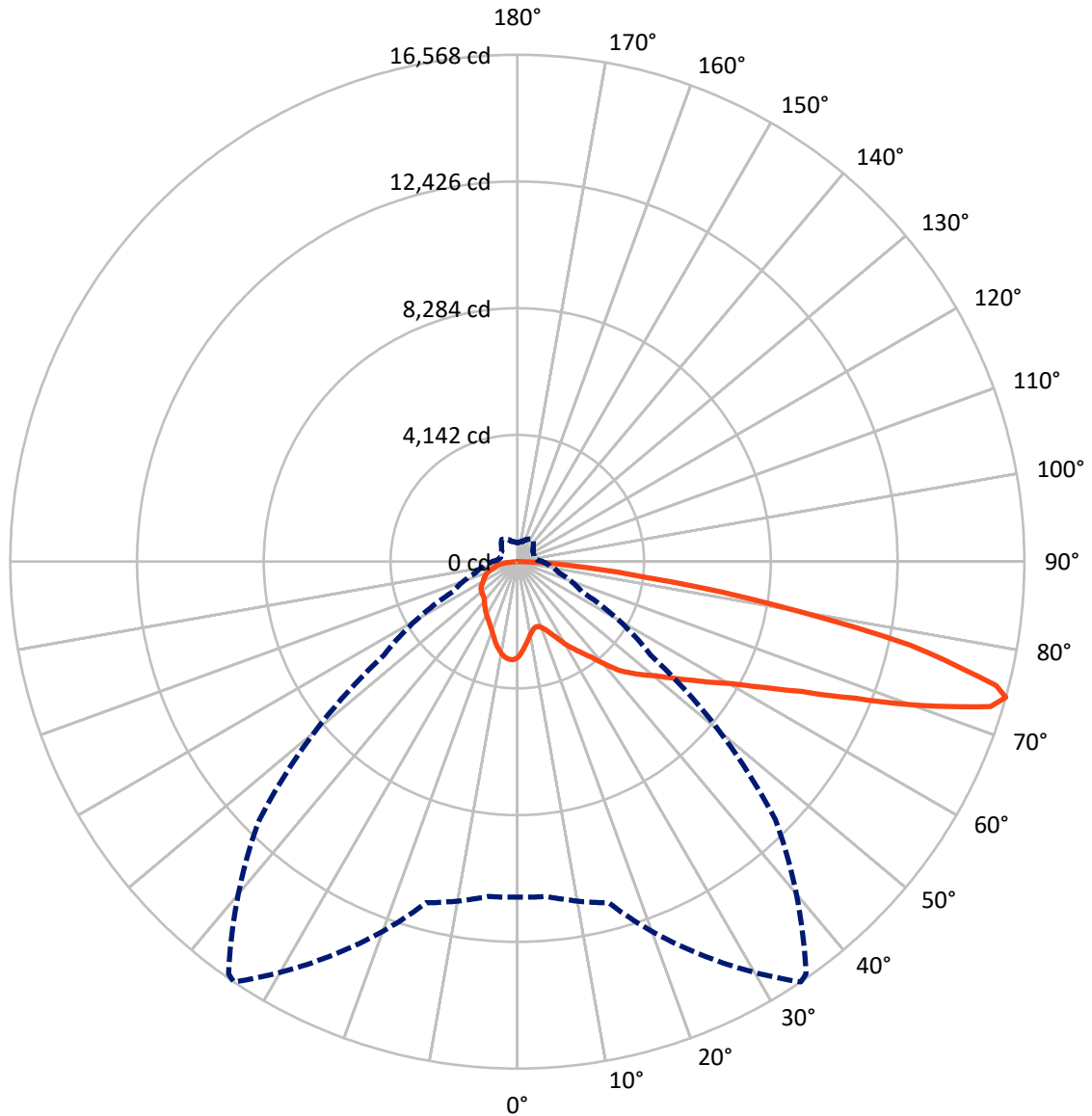
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4353.0	0.0	4353.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	16102.0	0.0	16102.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	20455.0	0.0	20455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.0	1.4
10°-20°	777.5	3.8
20°-30°	1281.9	6.3
30°-40°	1920.2	9.4
40°-50°	2791.4	13.6
50°-60°	3899.0	19.1
60°-70°	4881.3	23.9
70°-80°	4036.4	19.7
80°-90°	583.2	2.9
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°	20455.0	100.0
0°-180°	20455.0	100.0

Coefficient of Utilization



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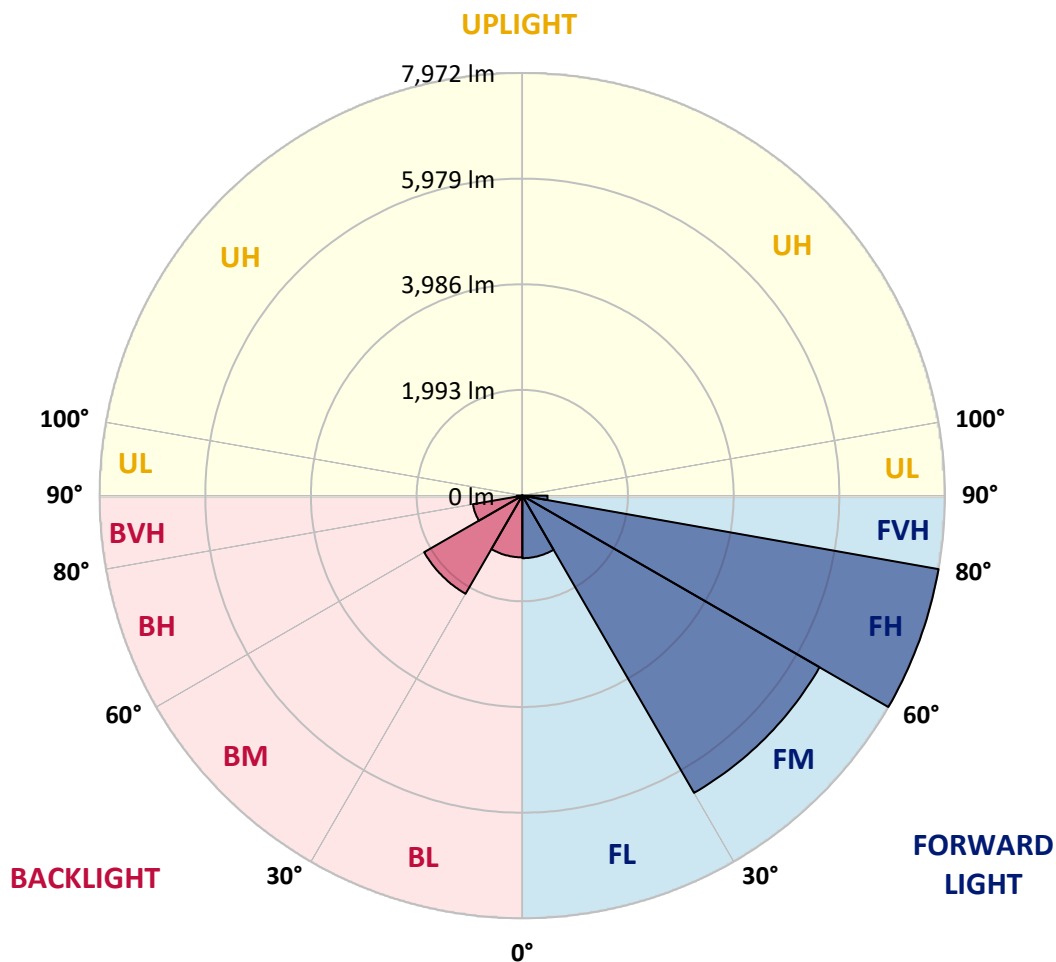
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1179.1	5.8			
FM (30°-60°)	6472.8	31.6			
FH (60°-80°)	7972.3	39.0			G4/12000
FVH (80°-90°)	477.8	2.3			G3/500
BL (0°-30°)	1164.3	5.7	B3/2500		
BM (30°-60°)	2137.8	10.5	B2/2500		
BH (60°-80°)	945.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	105.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1
2.5°	2886.2	2901.0	2908.9	2937.2	2944.0	2953.1	2976.9	3008.6	3049.4	3085.7	3117.4
5°	2646.0	2668.7	2682.3	2707.2	2755.9	2760.5	2823.9	2896.4	2979.2	3056.2	3119.7
7.5°	2418.2	2443.2	2454.5	2499.8	2564.4	2574.6	2667.5	2782.0	2920.2	3037.0	3134.4
10°	2247.1	2259.6	2284.5	2318.5	2395.6	2402.4	2523.6	2676.6	2855.6	3027.9	3159.3
12.5°	2154.2	2161.0	2166.7	2202.9	2278.8	2289.0	2416.0	2589.3	2804.6	3034.7	3200.1
15°	2167.8	2170.1	2145.1	2151.9	2213.1	2227.9	2353.6	2531.5	2772.9	3051.7	3261.3
17.5°	2282.2	2274.3	2213.1	2181.4	2224.5	2231.3	2341.2	2508.9	2758.2	3083.4	3324.8
20°	2462.4	2451.1	2345.7	2275.4	2300.4	2306.0	2382.0	2525.9	2772.9	3135.5	3423.4
22.5°	2686.8	2682.3	2522.5	2437.5	2436.4	2436.4	2476.0	2587.1	2817.1	3206.9	3526.5
25°	3000.7	2976.9	2768.4	2658.5	2627.9	2625.6	2621.1	2687.9	2873.8	3282.9	3648.9
27.5°	3322.5	3281.7	3095.9	2927.0	2861.3	2853.4	2823.9	2830.7	2946.3	3369.0	3788.3
30°	3611.5	3585.4	3410.9	3223.9	3145.7	3127.6	3046.0	3008.6	3067.5	3524.2	4010.4
32.5°	3832.5	3816.6	3680.6	3510.6	3395.0	3391.6	3272.7	3242.1	3256.8	3712.3	4264.2
35°	4011.5	4017.2	3948.0	3800.7	3668.1	3648.9	3569.6	3531.0	3488.0	3984.3	4583.8
37.5°	4256.3	4268.7	4264.2	4137.3	3975.2	3979.8	3961.6	3898.2	3783.7	4288.0	4938.4
40°	4526.0	4535.0	4533.9	4485.2	4400.2	4404.7	4397.9	4325.4	4154.3	4674.4	5332.8
42.5°	4898.8	4855.7	4743.5	4792.3	4842.1	4863.7	4910.1	4841.0	4606.4	5086.9	5703.3
45°	5315.8	5234.2	4980.4	5003.0	5187.7	5228.5	5484.6	5389.5	5097.1	5560.6	6139.6
47.5°	5578.7	5498.2	5284.1	5279.5	5524.3	5564.0	6017.2	5982.1	5543.6	6071.6	6672.2
50°	5813.3	5801.9	5560.6	5618.4	5857.5	5916.4	6597.4	6564.6	5988.9	6674.5	7252.4
52.5°	6161.2	6069.4	5876.7	5995.7	6311.9	6388.9	7173.1	7076.8	6398.0	7207.1	7815.6
55°	6317.5	6296.0	6284.7	6387.8	6821.8	6877.3	7732.9	7511.9	6747.0	7658.1	8244.0
57.5°	6735.7	6696.0	6808.2	6878.5	7422.4	7507.4	8317.6	7966.3	7053.0	8016.2	8452.5
60°	7277.4	7255.8	7358.9	7485.9	8093.2	8222.4	8983.9	8353.9	7298.9	8196.4	8338.0
62.5°	8086.4	8084.2	8064.9	8336.9	9044.0	9163.0	9748.8	8731.2	7337.4	8061.5	7746.5
65°	9246.8	9206.0	9038.3	9335.2	10227.0	10366.4	10545.5	8942.0	7105.1	7369.1	6522.6
67.5°	10460.5	10458.2	10322.2	10707.5	11925.7	12069.6	11541.5	8895.5	6460.3	5969.6	4632.5
70°	11466.8	11418.0	11591.4	12618.1	14095.8	14262.3	12413.0	8348.2	5145.8	3942.4	2752.5
72.5°	11708.1	11710.4	12070.7	14091.2	16179.7	16205.8	12726.9	6766.3	3443.8	2174.6	1376.8
74°	10964.8	10984.0	11542.7	14164.9	16568.4	16450.5	11924.6	5318.1	2328.7	1419.9	992.7
75°	10008.3	9887.1	10695.1	13674.2	16165.0	16038.0	10985.2	4267.6	1776.8	1134.3	869.2
77.5°	5350.9	5474.4	6721.0	10204.4	13132.5	12986.4	7448.5	2046.5	959.8	789.8	625.5
80°	1904.9	2100.9	2953.1	5339.6	8419.6	8464.9	3554.8	938.3	675.4	582.5	441.9
82.5°	777.4	798.9	1268.0	2369.5	4275.5	4316.3	1451.6	557.5	482.7	401.1	264.0
85°	303.7	312.8	560.9	1065.2	1824.4	1943.4	502.0	294.6	296.9	230.0	134.8
87.5°	102.0	115.6	230.0	354.7	619.9	607.4	146.2	87.3	106.5	99.7	41.9
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°	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1
2.5°	3133.3	3154.8	3169.5	3185.4	3200.1	3204.7	3201.3	3211.5	3212.6	3213.7	3214.9
5°	3151.4	3180.9	3209.2	3225.1	3231.9	3226.2	3206.9	3196.7	3187.7	3180.9	3183.1
7.5°	3176.3	3218.3	3244.3	3251.1	3233.0	3206.9	3159.3	3121.9	3098.1	3082.3	3081.1
10°	3214.9	3255.7	3277.2	3257.9	3208.1	3144.6	3069.8	2999.6	2946.3	2930.4	2929.3
12.5°	3263.6	3310.1	3308.9	3252.3	3165.0	3051.7	2930.4	2848.8	2776.3	2740.1	2754.8
15°	3327.0	3362.2	3329.3	3227.3	3089.1	2933.8	2784.2	2673.2	2591.6	2553.1	2555.3
17.5°	3400.7	3431.3	3344.0	3183.1	2982.6	2783.1	2609.7	2504.4	2439.8	2411.4	2409.2
20°	3492.5	3501.6	3344.0	3106.1	2845.4	2607.5	2442.0	2368.4	2332.1	2317.4	2321.9
22.5°	3591.1	3573.0	3325.9	2997.3	2665.3	2423.9	2312.8	2280.0	2261.8	2259.6	2261.8
25°	3702.1	3651.1	3288.5	2850.0	2477.2	2265.2	2200.7	2206.3	2209.7	2209.7	2217.7
27.5°	3838.1	3736.1	3226.2	2664.1	2257.3	2117.9	2099.8	2139.5	2157.6	2161.0	2166.7
30°	4017.2	3829.1	3123.1	2431.8	2070.3	1985.4	2017.1	2070.3	2090.7	2103.2	2100.9
32.5°	4230.2	3931.0	2983.7	2199.5	1919.6	1892.4	1931.0	1985.4	2008.0	2014.8	2005.7
35°	4480.6	4046.6	2800.1	1982.0	1788.2	1804.0	1849.4	1866.4	1886.8	1886.8	1891.3
37.5°	4750.3	4139.5	2575.7	1782.5	1686.2	1744.0	1776.8	1761.0	1751.9	1740.6	1746.2
40°	5024.6	4208.7	2284.5	1585.3	1584.2	1681.7	1690.7	1645.4	1609.1	1597.8	1592.1
42.5°	5263.7	4251.7	2021.6	1432.4	1487.9	1620.5	1627.3	1554.7	1496.9	1462.9	1451.6
45°	5545.8	4301.6	1764.4	1305.4	1398.4	1571.7	1588.7	1491.3	1406.3	1334.9	1316.8
47.5°	5932.3	4414.9	1561.5	1206.8	1333.8	1541.1	1564.9	1439.2	1327.0	1234.0	1219.3
50°	6368.5	4570.2	1404.0	1140.0	1283.9	1513.9	1543.4	1385.9	1253.3	1150.2	1138.9
52.5°	6768.5	4654.0	1268.0	1079.9	1235.2	1464.1	1515.1	1347.4	1180.8	1066.3	1056.1
55°	6987.3	4518.0	1134.3	1021.0	1168.3	1399.5	1475.4	1294.1	1110.5	1022.1	1007.4
57.5°	7016.7	4237.0	1013.1	957.5	1098.1	1320.2	1401.8	1229.5	1065.2	991.5	979.1
60°	6788.9	3817.7	919.0	905.4	1026.7	1230.6	1319.0	1172.9	1018.7	957.5	945.1
62.5°	6222.4	3362.2	853.3	857.8	954.1	1136.6	1257.8	1118.5	974.5	920.2	908.8
65°	5247.8	2775.2	789.8	809.1	889.6	1062.9	1202.3	1073.1	930.3	891.8	881.6
67.5°	3645.5	2003.5	737.7	758.1	828.4	988.1	1137.7	1024.4	880.5	860.1	844.2
70°	2018.2	1232.9	676.5	700.3	764.9	904.3	1065.2	950.7	808.0	798.9	776.2
72.5°	1060.7	785.3	607.4	633.5	678.8	796.6	954.1	870.3	736.6	698.0	668.6
74°	828.4	643.7	560.9	588.1	618.7	733.2	888.4	812.5	685.6	640.3	617.6
75°	721.8	573.4	521.3	556.4	583.6	690.1	837.4	771.7	657.3	614.2	593.8
77.5°	509.9	429.5	426.1	468.0	482.7	605.1	754.7	702.6	585.9	540.5	521.3
80°	358.1	321.8	337.7	363.8	384.2	534.9	700.3	607.4	480.5	427.2	420.4
82.5°	233.4	210.8	241.4	265.2	272.0	394.4	565.5	461.2	350.2	284.4	264.0
85°	107.7	105.4	138.2	134.8	133.7	192.6	335.4	269.7	201.7	150.7	141.6
87.5°	27.2	26.1	34.0	28.3	34.0	29.5	30.6	7.9	1.1	0.0	0.0
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)