

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P636790

Luminaire Tested: GWS-SA4B-740-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-740-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14759.1 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

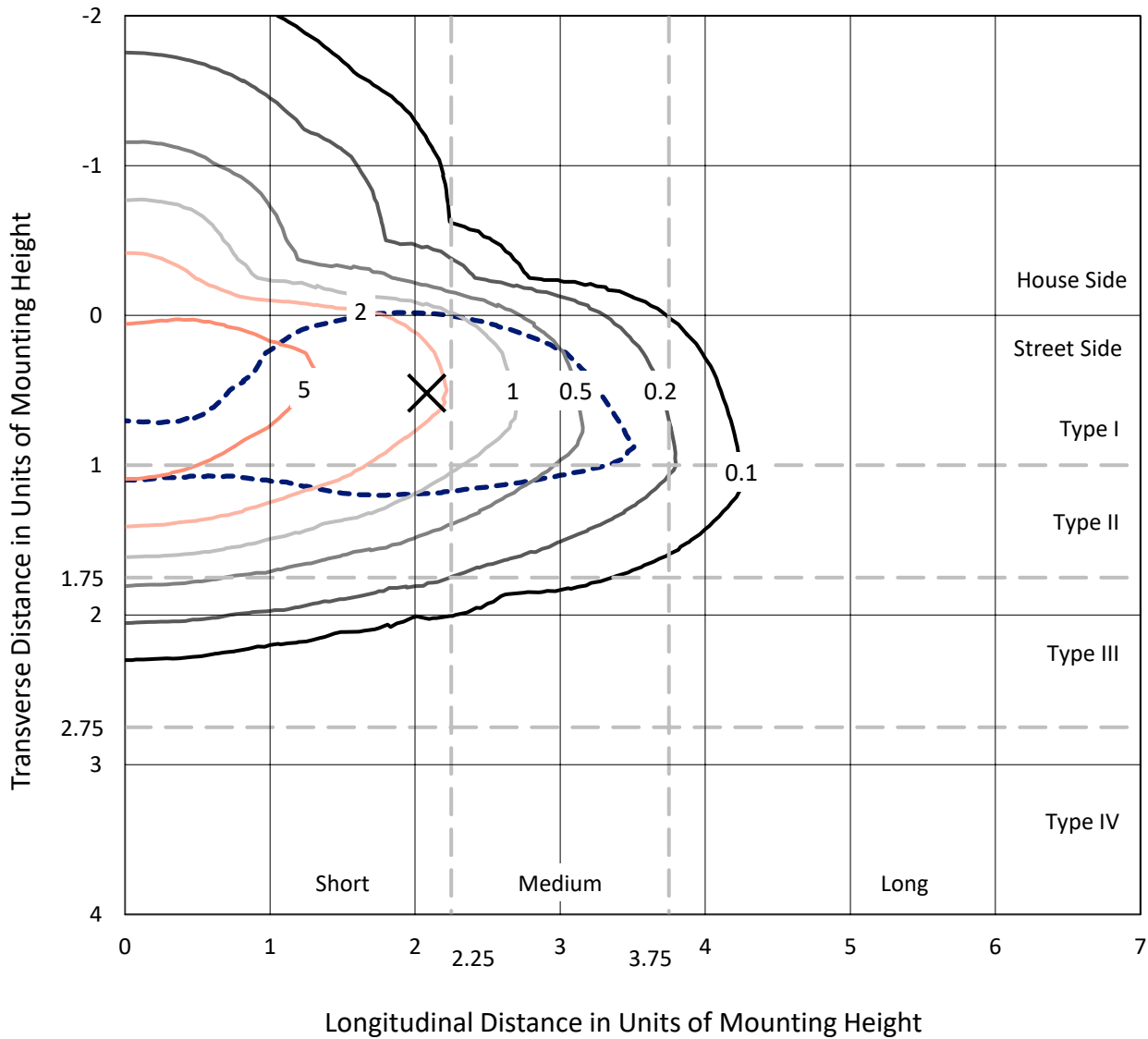


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Iso-Footcandle Lines of Horizontal Illumination

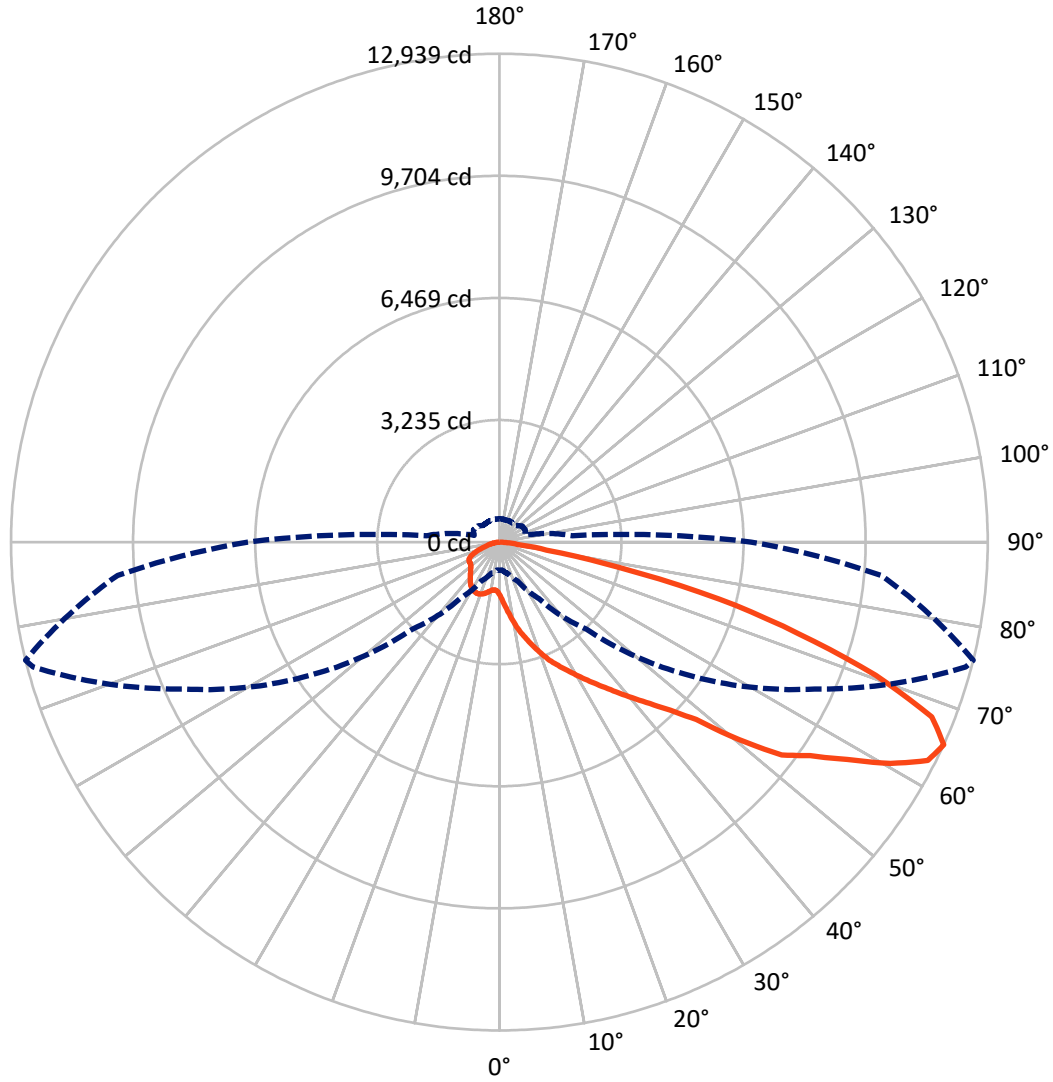
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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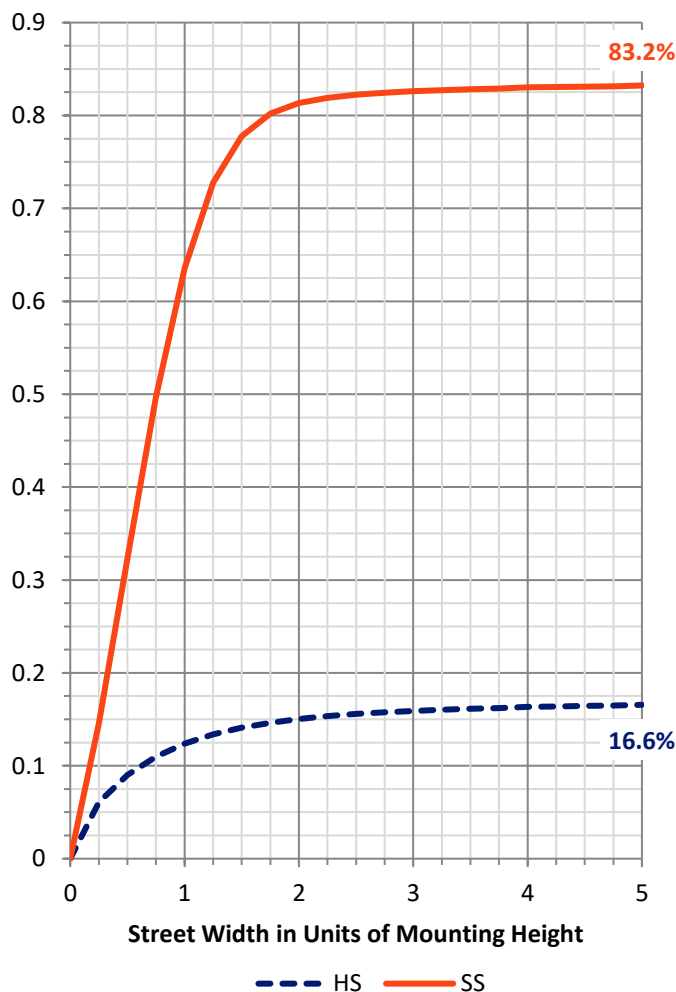
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2467.0	0.0	2467.0
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	12292.1	0.0	12292.1
	% Fixture	83.3	0.0	83.3
Total	Lumens	14759.1	0.0	14759.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.0	1.1
10°-20°	632.5	4.3
20°-30°	1232.6	8.4
30°-40°	2061.4	14.0
40°-50°	2951.5	20.0
50°-60°	3494.2	23.7
60°-70°	2905.4	19.7
70°-80°	1189.0	8.1
80°-90°	126.6	0.9
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°	14759.1	100.0
0°-180°	14759.1	100.0

Coefficient of Utilization



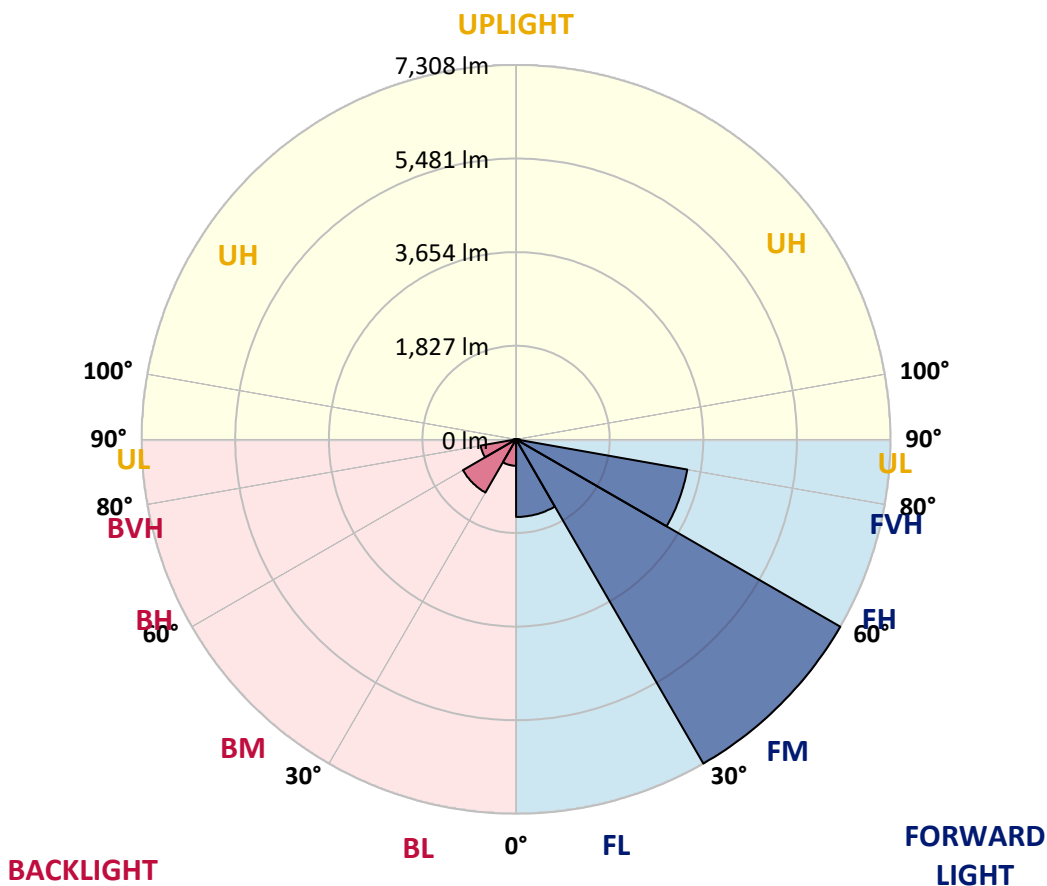
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1515.0	10.3			
FM (30°-60°)	7308.1	49.5			
FH (60°-80°)	3393.5	23.0			G2/5000
FVH (80°-90°)	75.5	0.5			G1/100
BL (0°-30°)	516.1	3.5	B2/1000		
BM (30°-60°)	1198.9	8.1	B2/2500		
BH (60°-80°)	700.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	51.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6
2.5°	1959.0	1966.2	1942.4	1934.1	1878.0	1802.3	1739.0	1643.5	1555.3	1541.9	1463.0
5°	2488.1	2457.0	2430.0	2412.4	2334.6	2248.5	2114.6	1935.1	1747.3	1724.5	1554.3
7.5°	2802.5	2797.3	2764.1	2753.8	2693.6	2607.5	2469.5	2246.4	1973.5	1936.1	1677.8
10°	3054.7	3051.5	3034.9	3044.3	2989.3	2905.2	2771.4	2541.1	2221.5	2184.1	1815.8
12.5°	3274.6	3279.8	3276.7	3310.9	3282.9	3217.6	3078.5	2825.4	2469.5	2429.0	1983.9
15°	3435.5	3439.6	3455.2	3529.9	3545.4	3532.0	3390.8	3104.5	2714.3	2656.2	2157.1
17.5°	3481.1	3489.4	3526.8	3647.1	3731.2	3787.2	3682.4	3388.8	2955.1	2891.8	2333.5
20°	3542.3	3551.7	3589.0	3714.6	3838.0	3965.7	3947.0	3677.2	3197.8	3146.0	2512.0
22.5°	3825.6	3818.3	3801.7	3861.9	3950.1	4108.9	4155.5	3954.3	3448.9	3399.1	2709.1
25°	4371.4	4357.9	4252.0	4197.0	4168.0	4264.5	4347.5	4206.4	3693.8	3619.1	2892.8
27.5°	4973.2	4965.9	4831.0	4700.3	4521.8	4480.3	4529.1	4426.4	3931.4	3855.7	3052.6
30°	5542.8	5521.0	5379.9	5216.0	4977.3	4798.8	4727.3	4642.2	4191.9	4113.0	3239.4
32.5°	6052.3	6024.2	5858.2	5676.6	5426.6	5216.0	5002.2	4871.5	4486.5	4395.2	3430.3
35°	6470.4	6442.4	6272.2	6079.2	5804.3	5648.6	5356.0	5120.5	4786.4	4694.1	3655.4
37.5°	6794.1	6768.2	6590.8	6400.9	6161.2	6037.7	5783.5	5400.7	5131.9	5035.4	3894.1
40°	6975.7	6957.0	6814.9	6664.4	6463.1	6356.3	6242.1	5754.5	5518.9	5422.4	4175.3
42.5°	7030.7	7018.3	6918.6	6840.8	6704.9	6624.0	6689.3	6170.5	5931.9	5847.9	4491.7
45°	6892.7	6892.7	6863.7	6903.1	6909.3	6908.3	7137.6	6640.6	6439.3	6346.9	4937.9
47.5°	6539.9	6562.7	6605.3	6799.3	7003.7	7174.9	7661.6	7267.3	7091.9	7016.2	5569.8
50°	5894.5	5956.8	6102.1	6480.8	6915.5	7351.3	8157.5	8193.8	8360.9	8227.0	6499.5
52.5°	4949.3	4940.0	5310.4	5849.9	6512.9	7358.6	8430.4	9011.5	9460.7	9368.4	7190.5
55°	3933.5	3917.9	4263.5	5007.4	5895.6	7080.5	8594.3	9386.0	10070.8	9987.8	7812.0
57.5°	3012.1	2992.4	3299.5	3970.9	5024.0	6490.1	8563.2	9832.2	10910.2	10867.7	8656.6
60°	2073.1	2049.2	2336.7	2923.9	3992.6	5587.4	8218.7	10061.5	11892.8	11907.4	9560.3
62.5°	1245.1	1231.6	1440.2	1895.7	2872.0	4468.9	7412.5	9922.5	12675.2	12740.6	10141.4
65°	751.2	741.9	864.3	1131.0	1822.0	3261.1	6169.5	9211.7	12788.3	12938.7	10154.9
67.5°	546.8	547.8	583.1	689.0	1062.5	2106.3	4629.7	7937.6	12198.9	12354.6	9514.7
70°	475.2	477.3	496.0	519.8	642.3	1205.7	3010.0	6266.0	10456.8	10577.2	7980.1
72.5°	422.3	422.3	434.7	447.2	502.2	734.6	1612.4	4379.7	8253.0	8285.1	6090.6
75°	371.5	368.3	374.6	380.8	435.8	513.6	784.4	3051.5	6095.8	6021.1	3936.6
77.5°	295.7	292.6	293.6	299.9	349.7	367.3	397.4	1906.1	3435.5	3242.5	1739.0
80°	210.6	208.6	220.0	235.5	258.4	225.2	249.0	922.4	1362.4	1267.9	674.4
82.5°	125.5	129.7	147.3	159.8	178.5	141.1	160.8	308.2	482.5	470.0	273.9
85°	17.6	18.7	52.9	61.2	76.8	55.0	85.1	139.0	193.0	206.5	96.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.3	24.9	55.0	56.0	23.9
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°	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6
2.5°	1422.5	1373.8	1304.2	1246.1	1197.4	1157.9	1124.7	1099.8	1092.6	1082.2	1082.2
5°	1474.4	1386.2	1261.7	1173.5	1122.7	1092.6	1071.8	1061.5	1056.3	1050.0	1046.9
7.5°	1546.0	1422.5	1254.4	1165.2	1125.8	1107.1	1093.6	1087.4	1083.2	1077.0	1077.0
10°	1644.6	1476.5	1277.3	1194.3	1163.1	1144.5	1128.9	1118.5	1109.2	1099.8	1097.8
12.5°	1751.5	1547.0	1318.8	1233.7	1200.5	1177.7	1155.9	1140.3	1128.9	1117.5	1114.4
15°	1869.7	1619.7	1363.4	1272.1	1230.6	1199.5	1173.5	1149.6	1134.1	1117.5	1115.4
17.5°	1985.9	1693.3	1400.7	1298.0	1245.1	1206.7	1169.4	1138.2	1118.5	1099.8	1094.7
20°	2125.0	1767.0	1426.7	1305.3	1242.0	1191.2	1146.5	1107.1	1085.3	1063.5	1060.4
22.5°	2252.6	1835.5	1439.1	1294.9	1218.1	1157.9	1106.1	1063.5	1039.7	1017.9	1013.7
25°	2376.1	1895.7	1433.9	1270.0	1181.8	1112.3	1058.3	1015.8	993.0	970.1	963.9
27.5°	2495.4	1936.1	1413.2	1231.6	1136.2	1061.5	1009.6	971.2	951.5	931.8	923.5
30°	2612.6	1973.5	1381.0	1181.8	1078.1	1008.5	966.0	939.0	919.3	898.6	892.3
32.5°	2730.9	2000.5	1332.3	1123.7	1018.9	961.8	935.9	916.2	895.4	874.7	868.5
35°	2850.3	2011.9	1273.1	1057.3	969.1	931.8	922.4	899.6	871.6	846.7	838.4
37.5°	2992.4	2022.3	1199.5	991.9	925.5	917.2	915.2	880.9	847.7	813.5	804.1
40°	3163.6	2035.7	1123.7	932.8	890.3	912.0	903.7	857.0	790.6	757.4	747.1
42.5°	3373.2	2060.7	1044.9	878.8	864.3	892.3	883.0	798.9	754.3	735.7	730.5
45°	3681.4	2152.0	966.0	836.3	844.6	864.3	849.8	764.7	747.1	734.6	728.4
47.5°	4230.2	2292.0	897.5	804.1	829.0	839.4	783.4	755.4	741.9	725.3	718.0
50°	4800.9	2353.3	842.5	784.4	811.4	816.6	747.1	742.9	733.6	715.9	708.7
52.5°	5186.9	2345.0	809.3	777.2	796.9	777.2	730.5	729.4	723.2	702.4	694.1
55°	5622.7	2359.5	794.8	779.2	790.6	710.7	709.7	712.8	709.7	686.9	682.7
57.5°	6211.0	2404.1	787.5	786.5	786.5	678.6	690.0	694.1	687.9	677.5	674.4
60°	6776.5	2407.2	774.0	794.8	783.4	658.9	667.2	671.3	664.1	662.0	660.9
62.5°	6989.2	2257.8	744.0	788.6	770.9	637.1	643.3	645.4	638.1	643.3	642.3
65°	6672.7	1940.3	694.1	758.5	732.5	617.4	613.2	618.4	606.0	619.4	620.5
67.5°	5924.6	1541.9	618.4	701.4	678.6	595.6	587.3	587.3	566.5	587.3	586.2
70°	4777.1	1089.5	507.4	610.1	619.4	569.6	565.5	541.6	508.4	539.5	536.4
72.5°	3621.2	782.3	399.5	482.5	533.3	533.3	534.4	493.9	455.5	470.0	457.6
75°	2294.1	551.0	319.6	369.4	418.1	468.0	491.8	417.1	382.9	376.6	370.4
77.5°	1033.4	362.1	249.0	283.3	296.8	369.4	449.3	359.0	312.3	298.8	294.7
80°	432.7	225.2	177.4	200.3	182.6	310.2	396.4	279.1	229.3	210.6	197.1
82.5°	189.9	133.8	113.1	107.9	114.1	230.3	295.7	185.7	143.2	194.0	196.1
85°	79.9	70.6	58.1	52.9	46.7	88.2	139.0	72.6	89.2	50.8	41.5
87.5°	18.7	20.8	15.6	10.4	6.2	1.0	0.0	0.0	0.0	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)