

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: P633270

Luminaire Tested: GWS-SA2E-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633270
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-SA2E-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14674.3 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
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

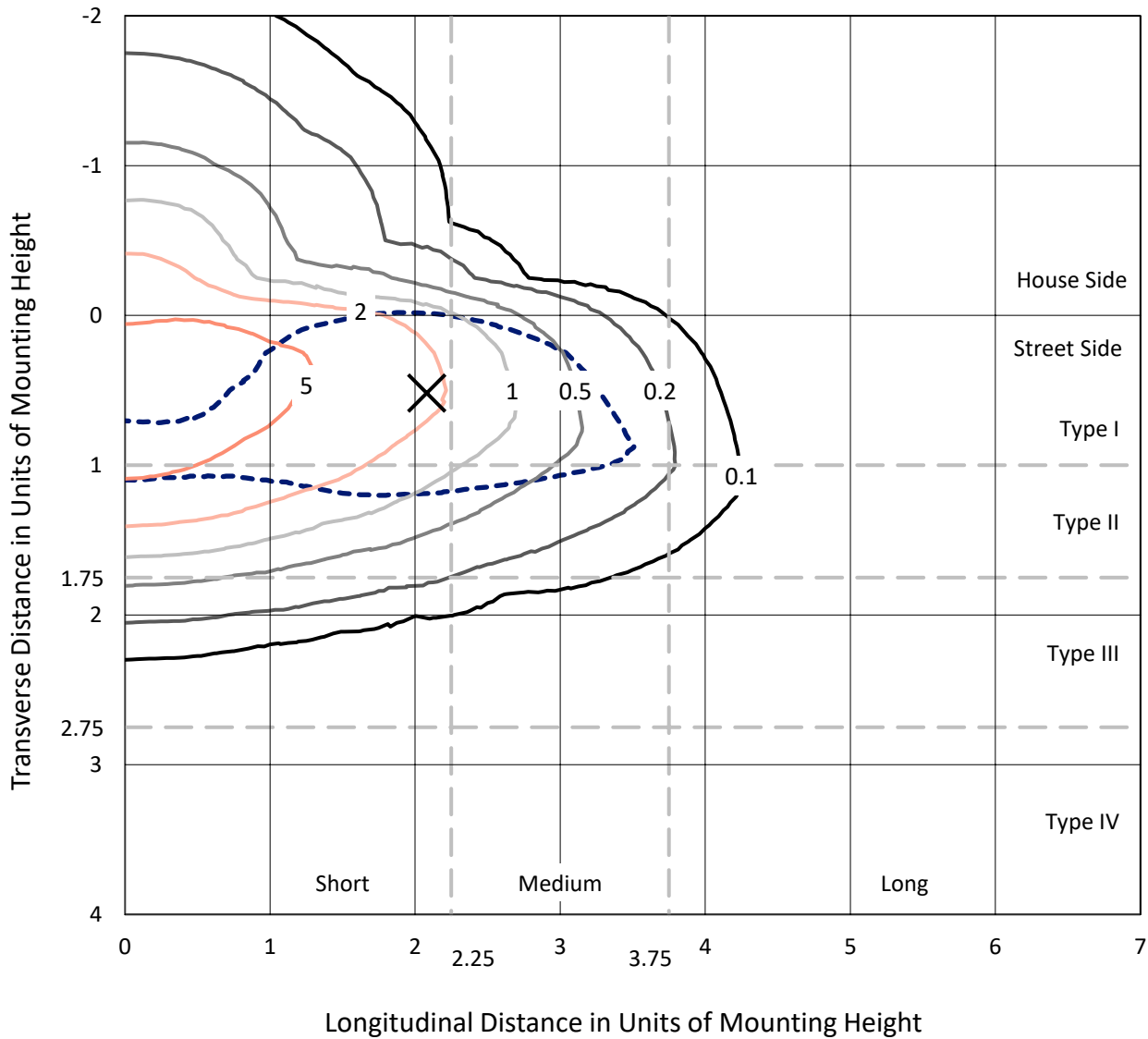


REPORT NUMBER: P633270

CATALOG NUMBER: GWS-SA2E-735-U-T2R-W

Iso-Footcandle Lines of Horizontal Illumination

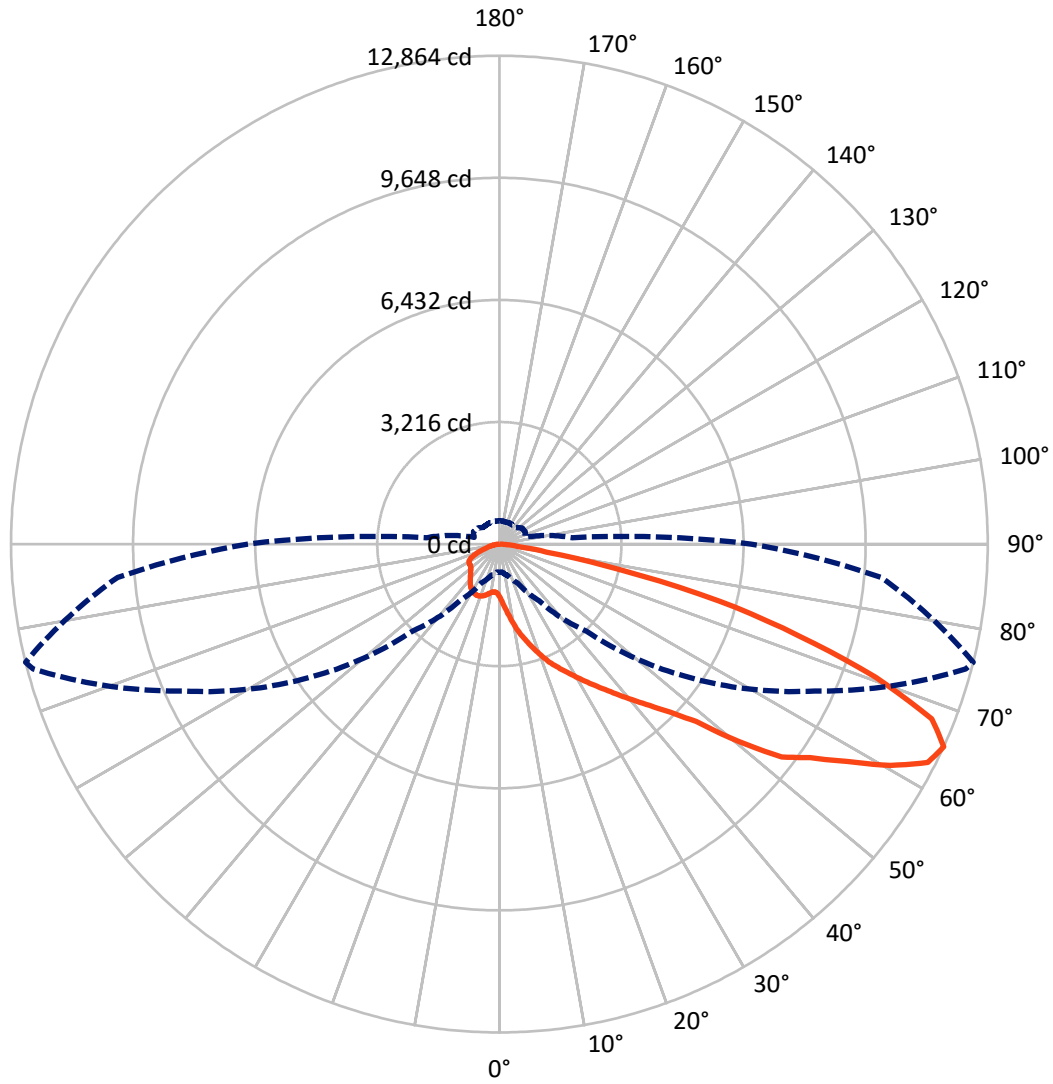
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

REPORT NUMBER: P633270
CATALOG NUMBER: GWS-SA2E-735-U-T2R-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P633270

CATALOG NUMBER: GWS-SA2E-735-U-T2R-W

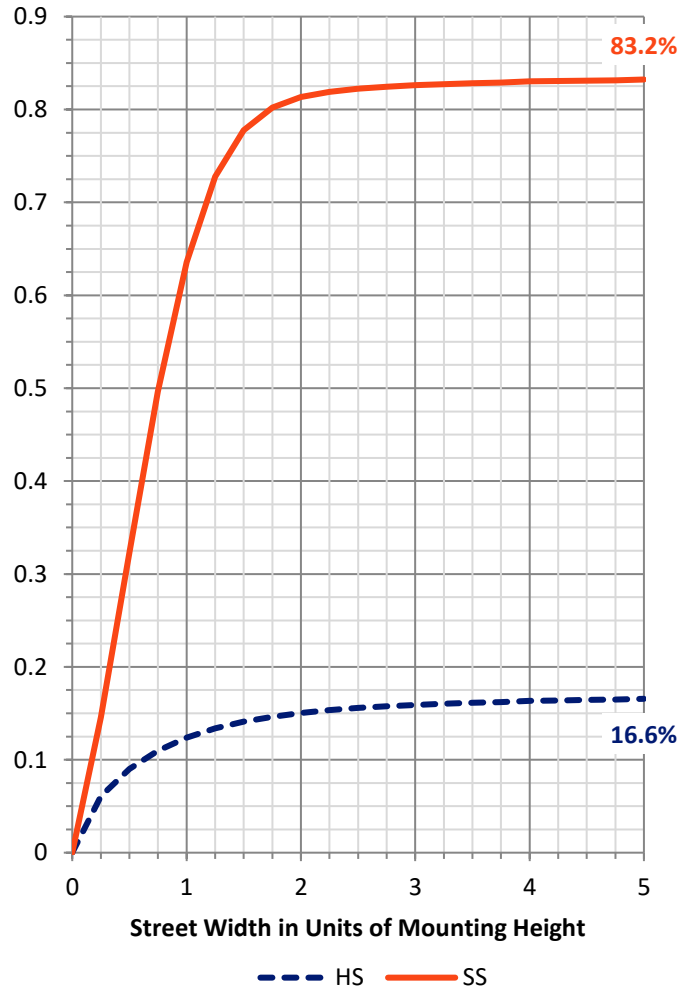
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2452.8	0.0	2452.8
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	12221.5	0.0	12221.5
	% Fixture	83.3	0.0	83.3
Total	Lumens	14674.3	0.0	14674.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	1.1
10°-20°	628.8	4.3
20°-30°	1225.5	8.4
30°-40°	2049.5	14.0
40°-50°	2934.5	20.0
50°-60°	3474.1	23.7
60°-70°	2888.7	19.7
70°-80°	1182.1	8.1
80°-90°	125.9	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°	14674.3	100.0
0°-180°	14674.3	100.0

Coefficient of Utilization



REPORT NUMBER: P633270

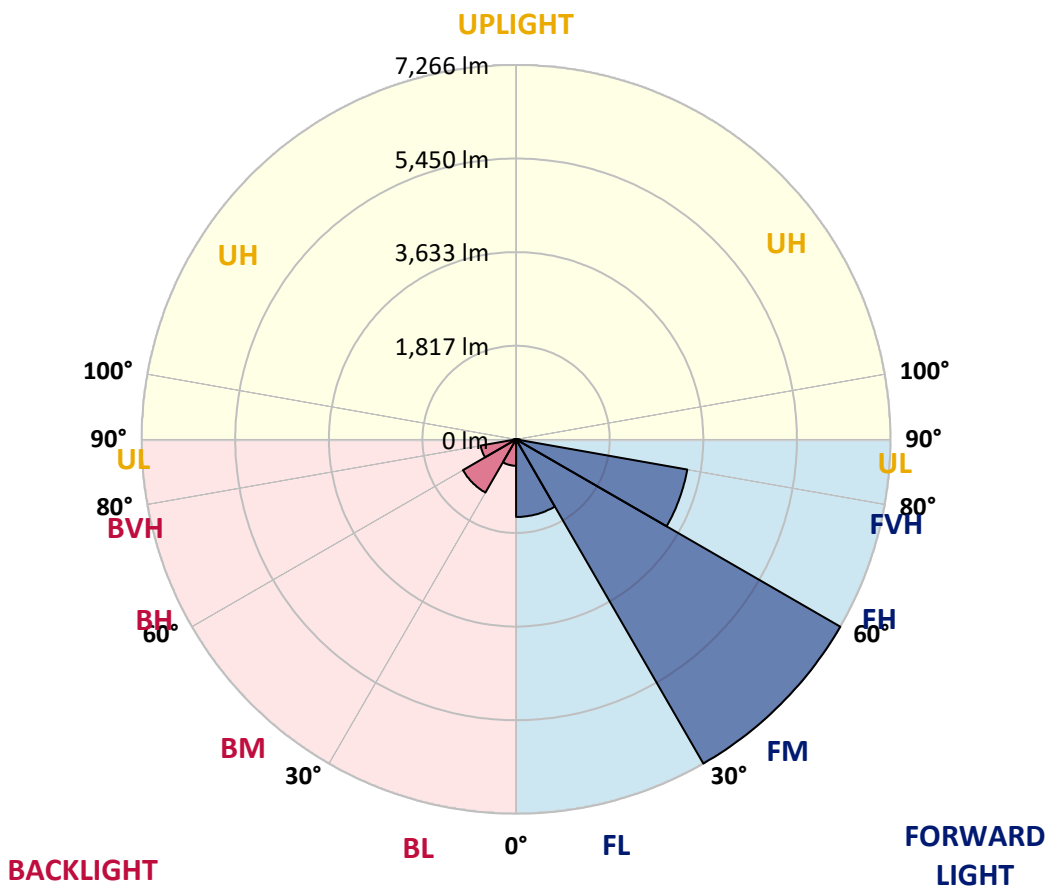
CATALOG NUMBER: GWS-SA2E-735-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1506.3	10.3			
FM (30°-60°)	7266.2	49.5			
FH (60°-80°)	3374.0	23.0			G2/5000
FVH (80°-90°)	75.1	0.5			G1/100
BL (0°-30°)	513.1	3.5	B2/1000		
BM (30°-60°)	1192.0	8.1	B2/2500		
BH (60°-80°)	696.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	50.8	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





REPORT NUMBER: P633270
 CATALOG NUMBER: GWS-SA2E-735-U-T2R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1389.6	1389.6	1389.6	1389.6	1389.6	1389.6	1389.6	1389.6	1389.6	1389.6	1389.6
2.5°	1947.7	1954.9	1931.2	1923.0	1867.2	1791.9	1729.0	1634.1	1546.4	1533.0	1454.6
5°	2473.8	2442.9	2416.1	2398.5	2321.2	2235.5	2102.5	1924.0	1737.3	1714.6	1545.4
7.5°	2786.4	2781.3	2748.3	2737.9	2678.1	2592.5	2455.3	2233.5	1962.2	1925.0	1668.1
10°	3037.1	3034.0	3017.5	3026.8	2972.1	2888.6	2755.5	2526.5	2208.7	2171.6	1805.3
12.5°	3255.8	3261.0	3257.9	3291.9	3264.1	3199.1	3060.8	2809.1	2455.3	2415.0	1972.5
15°	3415.7	3419.8	3435.3	3509.6	3525.1	3511.7	3371.4	3086.6	2698.7	2641.0	2144.8
17.5°	3461.1	3469.4	3506.5	3626.2	3709.7	3765.4	3661.2	3369.3	2938.1	2875.1	2320.1
20°	3522.0	3531.3	3568.4	3693.2	3816.0	3942.9	3924.3	3656.1	3179.5	3127.9	2497.6
22.5°	3803.6	3796.4	3779.9	3839.7	3927.4	4085.2	4131.7	3931.5	3429.1	3379.6	2693.6
25°	4346.2	4332.8	4227.6	4172.9	4144.0	4240.0	4322.5	4182.2	3672.6	3598.3	2876.2
27.5°	4944.6	4937.4	4803.3	4673.3	4495.8	4454.6	4503.1	4400.9	3908.8	3833.5	3035.0
30°	5511.0	5489.3	5349.0	5186.0	4948.7	4771.3	4700.1	4615.5	4167.8	4089.4	3220.7
32.5°	6017.5	5989.6	5824.6	5644.0	5395.4	5186.0	4973.5	4843.5	4460.8	4370.0	3410.6
35°	6433.2	6405.4	6236.2	6044.3	5770.9	5616.2	5325.3	5091.1	4758.9	4667.1	3634.4
37.5°	6755.1	6729.3	6552.9	6364.1	6125.8	6003.0	5750.3	5369.6	5102.4	5006.5	3871.7
40°	6935.6	6917.1	6775.7	6626.1	6426.0	6319.7	6206.3	5721.4	5487.2	5391.3	4151.3
42.5°	6990.3	6977.9	6878.9	6801.5	6666.4	6585.9	6650.9	6135.1	5897.8	5814.3	4465.9
45°	6853.1	6853.1	6824.2	6863.4	6869.6	6868.6	7096.6	6602.4	6402.3	6310.5	4909.5
47.5°	6502.3	6525.0	6567.3	6760.3	6963.5	7133.7	7617.5	7225.5	7051.2	6975.9	5537.8
50°	5860.7	5922.6	6067.0	6443.5	6875.8	7309.1	8110.7	8146.8	8312.9	8179.8	6462.1
52.5°	4920.9	4911.6	5279.9	5816.3	6475.5	7316.3	8382.0	8959.7	9406.4	9314.6	7149.2
55°	3910.9	3895.4	4239.0	4978.6	5861.7	7039.8	8545.0	9332.1	10013.0	9930.4	7767.1
57.5°	2994.8	2975.2	3280.6	3948.0	4995.1	6452.8	8514.0	9775.7	10847.6	10805.3	8606.9
60°	2061.2	2037.5	2323.2	2907.1	3969.7	5555.3	8171.5	10003.7	11824.5	11839.0	9505.4
62.5°	1238.0	1224.5	1431.9	1884.8	2855.5	4443.2	7369.9	9865.5	12602.4	12667.4	10083.1
65°	746.9	737.6	859.3	1124.5	1811.5	3242.4	6134.1	9158.8	12714.8	12864.4	10096.5
67.5°	543.7	544.7	579.8	685.0	1056.4	2094.2	4603.1	7891.9	12128.8	12283.6	9460.0
70°	472.5	474.5	493.1	516.8	638.6	1198.8	2992.8	6230.0	10396.7	10516.4	7934.2
72.5°	419.9	419.9	432.3	444.6	499.3	730.4	1603.1	4354.5	8205.6	8237.5	6055.7
75°	369.3	366.2	372.4	378.6	433.3	510.7	779.9	3034.0	6060.8	5986.5	3914.0
77.5°	294.0	290.9	292.0	298.1	347.7	365.2	395.1	1895.1	3415.7	3223.8	1729.0
80°	209.4	207.4	218.7	234.2	256.9	223.9	247.6	917.1	1354.5	1260.6	670.6
82.5°	124.8	129.0	146.5	158.9	177.4	140.3	159.9	306.4	479.7	467.3	272.3
85°	17.5	18.6	52.6	60.9	76.3	54.7	84.6	138.2	191.9	205.3	95.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.2	24.8	54.7	55.7	23.7
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: P633270

CATALOG NUMBER: GWS-SA2E-735-U-T2R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1389.6	1389.6	1389.6	1389.6	1389.6	1389.6	1389.6	1389.6	1389.6	1389.6	1389.6
2.5°	1414.4	1365.9	1296.8	1239.0	1190.5	1151.3	1118.3	1093.5	1086.3	1076.0	1076.0
5°	1465.9	1378.3	1254.5	1166.8	1116.2	1086.3	1065.7	1055.4	1050.2	1044.0	1040.9
7.5°	1537.1	1414.4	1247.2	1158.5	1119.3	1100.7	1087.3	1081.1	1077.0	1070.8	1070.8
10°	1635.1	1468.0	1269.9	1187.4	1156.5	1137.9	1122.4	1112.1	1102.8	1093.5	1091.5
12.5°	1741.4	1538.2	1311.2	1226.6	1193.6	1170.9	1149.2	1133.8	1122.4	1111.1	1108.0
15°	1859.0	1610.4	1355.6	1264.8	1223.5	1192.6	1166.8	1143.0	1127.6	1111.1	1109.0
17.5°	1974.5	1683.6	1392.7	1290.6	1238.0	1199.8	1162.6	1131.7	1112.1	1093.5	1088.4
20°	2112.8	1756.9	1418.5	1297.8	1234.9	1184.3	1139.9	1100.7	1079.1	1057.4	1054.3
22.5°	2239.7	1824.9	1430.9	1287.5	1211.1	1151.3	1099.7	1057.4	1033.7	1012.0	1007.9
25°	2362.4	1884.8	1425.7	1262.7	1175.0	1105.9	1052.3	1010.0	987.3	964.6	958.4
27.5°	2481.1	1925.0	1405.1	1224.5	1129.6	1055.4	1003.8	965.6	946.0	926.4	918.1
30°	2597.6	1962.2	1373.1	1175.0	1071.9	1002.7	960.4	933.6	914.0	893.4	887.2
32.5°	2715.2	1989.0	1324.6	1117.3	1013.1	956.3	930.5	910.9	890.3	869.7	863.5
35°	2833.9	2000.3	1265.8	1051.2	963.5	926.4	917.1	894.4	866.6	841.8	833.6
37.5°	2975.2	2010.6	1192.6	986.2	920.2	912.0	909.9	875.9	842.8	808.8	799.5
40°	3145.4	2024.1	1117.3	927.4	885.1	906.8	898.5	852.1	786.1	753.1	742.8
42.5°	3353.8	2048.8	1038.8	873.8	859.3	887.2	877.9	794.4	750.0	731.4	726.3
45°	3660.2	2139.6	960.4	831.5	839.7	859.3	844.9	760.3	742.8	730.4	724.2
47.5°	4205.9	2278.9	892.4	799.5	824.3	834.6	778.9	751.0	737.6	721.1	713.9
50°	4773.3	2339.7	837.7	779.9	806.7	811.9	742.8	738.6	729.4	711.8	704.6
52.5°	5157.1	2331.5	804.7	772.7	792.3	772.7	726.3	725.2	719.0	698.4	690.2
55°	5590.4	2345.9	790.2	774.8	786.1	706.7	705.6	708.7	705.6	682.9	678.8
57.5°	6175.3	2390.3	783.0	782.0	782.0	674.7	686.0	690.2	684.0	673.7	670.6
60°	6737.6	2393.4	769.6	790.2	778.9	655.1	663.3	667.5	660.2	658.2	657.1
62.5°	6949.0	2244.8	739.7	784.0	766.5	633.4	639.6	641.7	634.5	639.6	638.6
65°	6634.4	1929.1	690.2	754.1	728.3	613.8	609.7	614.8	602.5	615.9	616.9
67.5°	5890.6	1533.0	614.8	697.4	674.7	592.2	583.9	583.9	563.3	583.9	582.9
70°	4749.6	1083.2	504.5	606.6	615.9	566.4	562.2	538.5	505.5	536.4	533.4
72.5°	3600.4	777.8	397.2	479.7	530.3	530.3	531.3	491.1	452.9	467.3	454.9
75°	2280.9	547.8	317.7	367.3	415.7	465.3	489.0	414.7	380.7	374.5	368.3
77.5°	1027.5	360.0	247.6	281.6	295.0	367.3	446.7	356.9	310.5	297.1	293.0
80°	430.2	223.9	176.4	199.1	181.6	308.5	394.1	277.5	228.0	209.4	196.0
82.5°	188.8	133.1	112.4	107.3	113.5	229.0	294.0	184.7	142.4	192.9	195.0
85°	79.4	70.2	57.8	52.6	46.4	87.7	138.2	72.2	88.7	50.5	41.3
87.5°	18.6	20.6	15.5	10.3	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)