

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: P631300

Luminaire Tested: GWS-SA1F-735-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-735-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8026.2 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

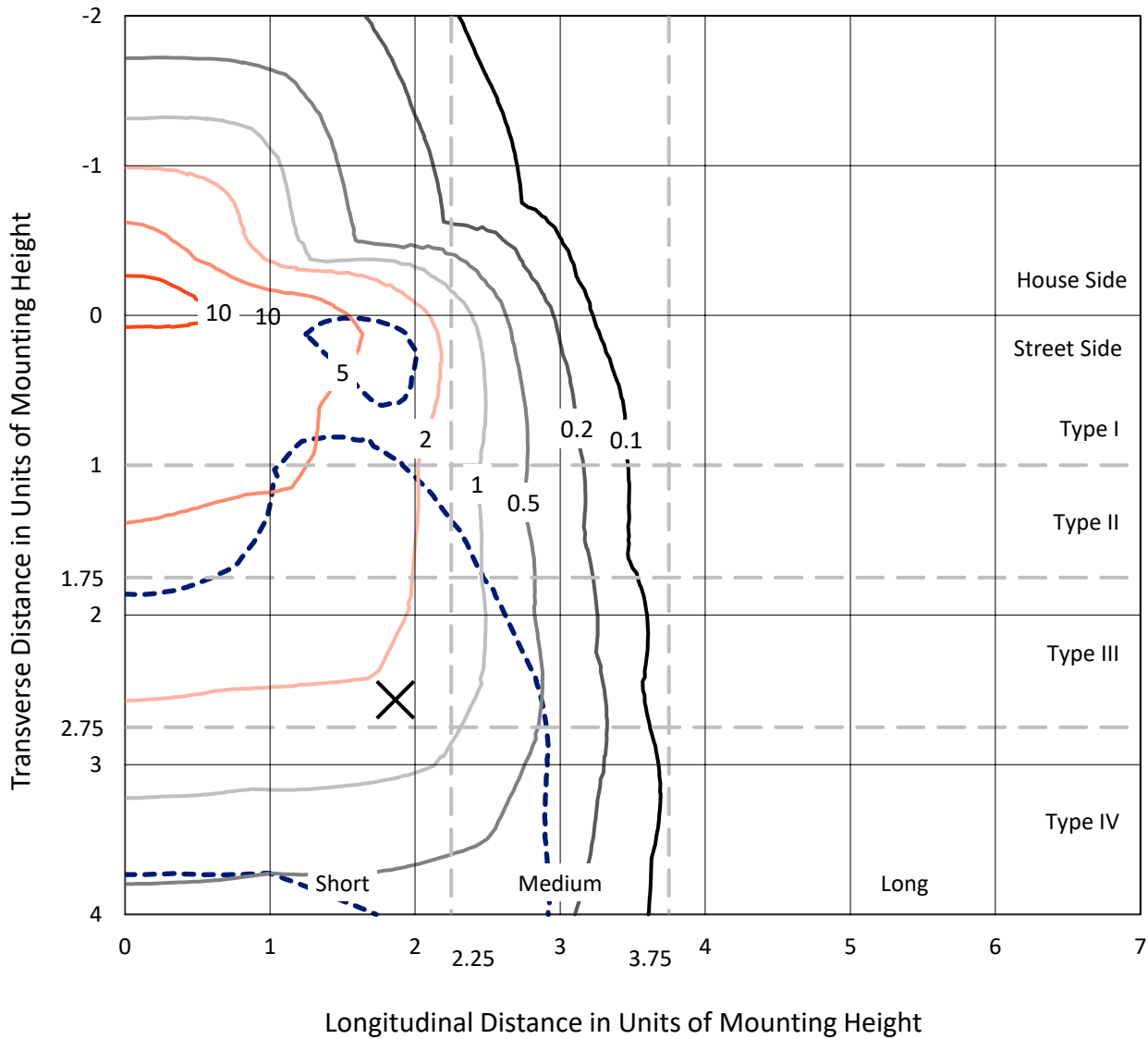
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631300
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Iso-Footcandle Lines of Horizontal Illumination

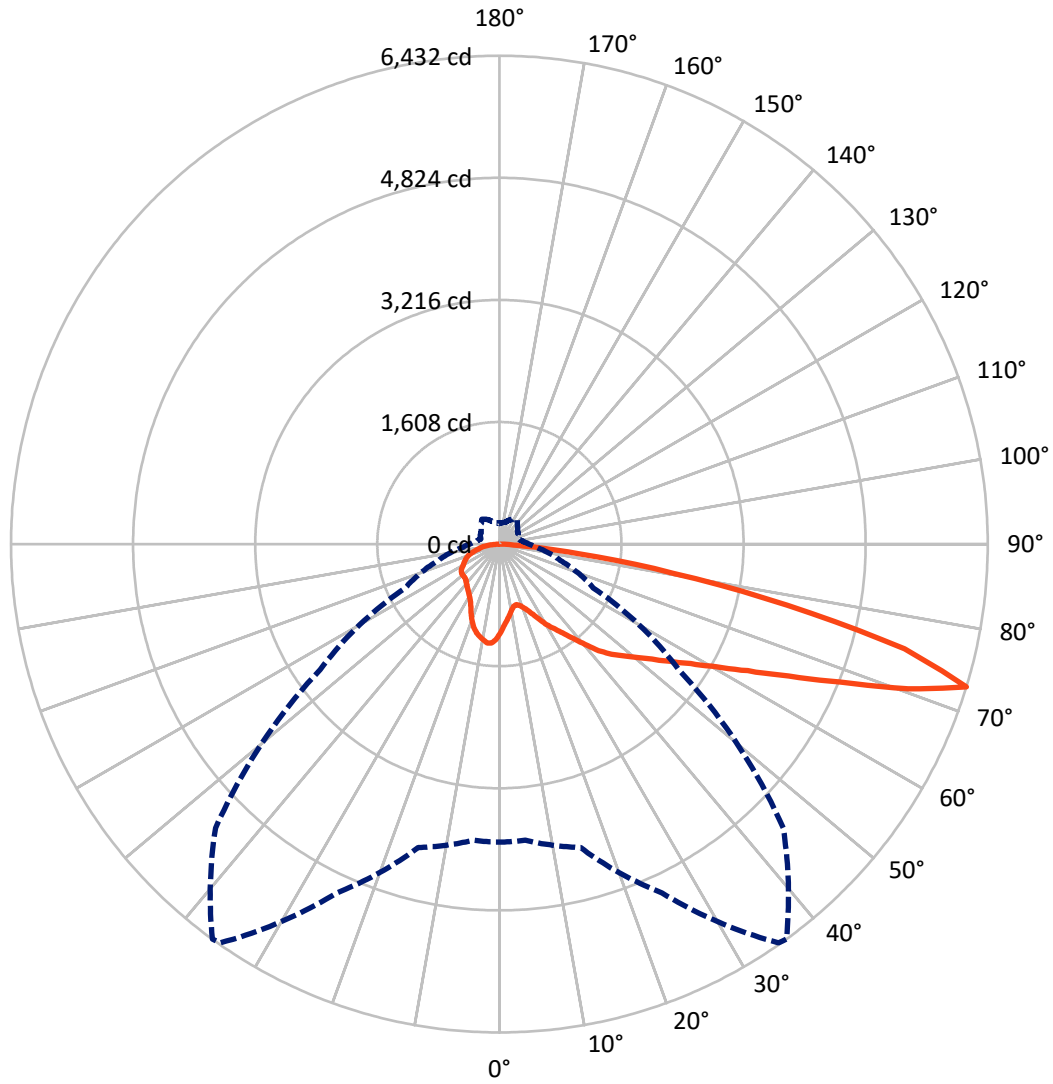
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P631300
CATALOG NUMBER: GWS-SA1F-735-U-T4FT-W

Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P631300

CATALOG NUMBER: GWS-SA1F-735-U-T4FT-W

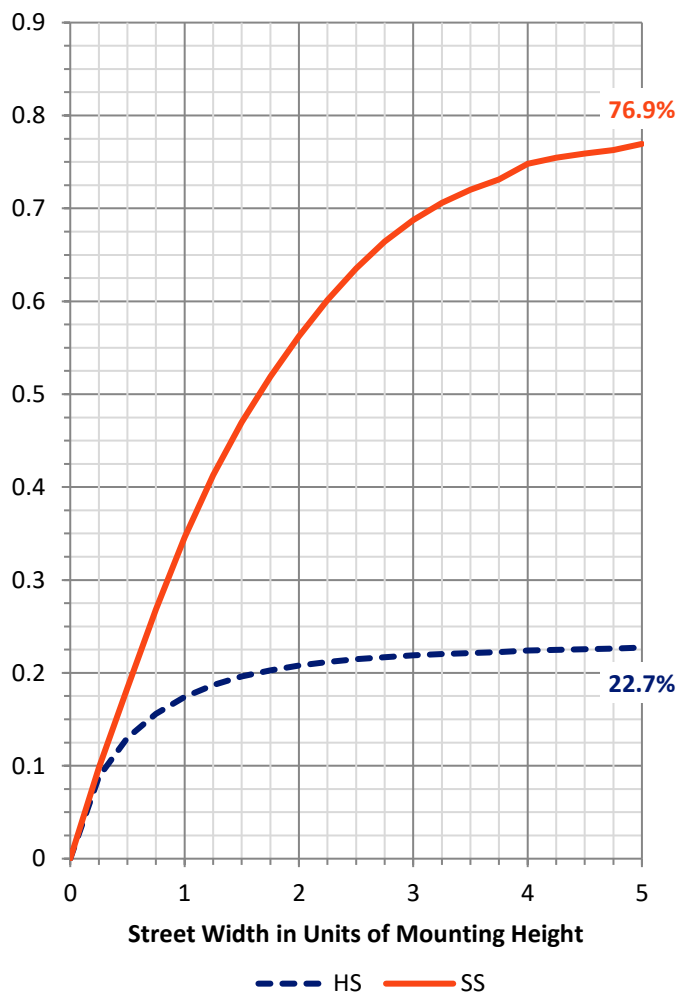
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1850.4	0.0	1850.4
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	6175.8	0.0	6175.8
	% Fixture	76.9	0.0	76.9
Total	Lumens	8026.2	0.0	8026.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	1.4
10°-20°	309.8	3.9
20°-30°	513.0	6.4
30°-40°	768.3	9.6
40°-50°	1120.9	14.0
50°-60°	1595.4	19.9
60°-70°	2015.7	25.1
70°-80°	1436.4	17.9
80°-90°	156.8	2.0
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°	8026.2	100.0
0°-180°	8026.2	100.0

Coefficient of Utilization



REPORT NUMBER: P631300

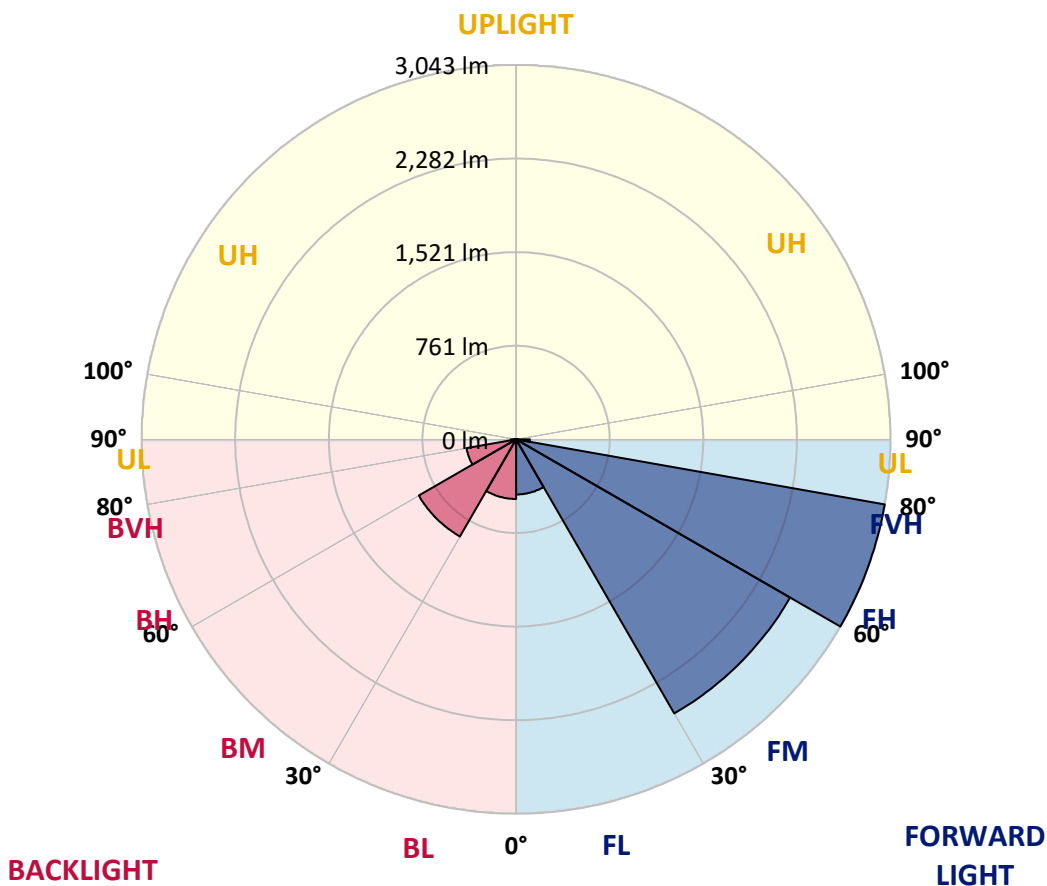
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	448.1	5.6			
FM (30°-60°)	2572.2	32.0			
FH (60°-80°)	3043.0	37.9			G2/5000
FVH (80°-90°)	112.5	1.4			G2/225
BL (0°-30°)	484.6	6.0	B1/500		
BM (30°-60°)	912.5	11.4	B1/1000		
BH (60°-80°)	409.1	5.1	B1/500		G1/500
BVH (80°-90°)	44.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P631300
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1174.7	1174.7	1174.7	1174.7	1174.7	1174.7	1174.7	1174.7	1174.7	1174.7	1174.7
2.5°	1071.6	1069.8	1066.3	1077.0	1087.7	1086.5	1101.4	1115.7	1131.2	1147.3	1168.7
5°	985.8	984.7	981.7	997.8	1013.8	1013.2	1037.7	1060.9	1092.5	1127.0	1169.9
7.5°	900.1	897.1	901.3	921.5	944.1	946.5	979.9	1018.0	1063.9	1115.7	1176.5
10°	824.4	823.8	825.6	848.2	882.2	884.6	927.5	980.5	1041.2	1110.3	1191.3
12.5°	804.8	803.6	798.8	810.1	835.7	839.3	886.4	951.3	1025.8	1113.3	1211.6
15°	836.9	833.9	817.3	811.9	824.4	827.4	867.3	934.0	1016.8	1118.7	1237.2
17.5°	892.3	890.5	859.0	836.9	845.3	847.6	877.4	931.0	1014.4	1129.4	1268.8
20°	973.3	965.6	916.1	882.8	882.8	886.4	904.2	944.1	1017.4	1142.5	1304.5
22.5°	1080.6	1065.1	995.4	950.1	938.2	943.0	950.7	976.9	1029.9	1164.5	1349.2
25°	1200.9	1186.6	1103.8	1040.0	1023.4	1025.2	1018.6	1023.4	1057.3	1194.9	1404.6
27.5°	1329.0	1319.4	1231.3	1150.2	1124.0	1124.0	1100.8	1089.5	1095.4	1229.5	1466.6
30°	1443.3	1430.2	1355.8	1267.0	1232.5	1232.5	1188.4	1163.9	1149.7	1271.8	1549.3
32.5°	1503.5	1495.7	1446.3	1378.4	1336.1	1329.5	1291.4	1262.8	1229.5	1334.3	1661.3
35°	1582.1	1580.3	1550.5	1497.5	1443.9	1434.4	1408.2	1385.5	1327.8	1412.3	1810.3
37.5°	1681.0	1678.0	1673.2	1641.7	1577.3	1575.6	1552.3	1524.9	1449.9	1524.9	1990.7
40°	1791.8	1786.4	1780.5	1779.9	1741.2	1734.6	1732.8	1701.8	1597.0	1660.7	2179.0
42.5°	1944.3	1925.8	1869.8	1894.8	1923.4	1917.5	1940.1	1893.6	1780.5	1822.2	2357.1
45°	2131.9	2086.6	1975.9	1983.0	2055.1	2067.0	2145.6	2134.3	1982.4	2008.6	2544.7
47.5°	2244.5	2205.2	2102.1	2096.2	2186.1	2201.0	2372.0	2393.4	2199.8	2233.2	2776.4
50°	2336.8	2309.4	2224.8	2233.2	2328.5	2343.4	2596.5	2642.4	2404.7	2463.1	3045.7
52.5°	2448.2	2408.9	2343.4	2382.7	2499.5	2517.3	2846.1	2895.6	2589.4	2715.7	3324.5
55°	2510.8	2494.7	2495.9	2556.0	2702.6	2727.0	3107.6	3099.3	2758.6	2931.9	3534.1
57.5°	2654.9	2649.0	2703.8	2726.4	2939.7	2971.2	3369.1	3297.7	2912.3	3099.3	3634.8
60°	2909.3	2894.4	2942.0	2976.6	3232.7	3277.4	3661.0	3491.8	3016.5	3223.8	3600.9
62.5°	3266.7	3248.2	3250.0	3304.8	3625.3	3672.3	3985.7	3653.9	3048.7	3242.9	3385.8
65°	3711.1	3684.2	3653.9	3728.3	4146.5	4185.8	4338.9	3771.8	2971.8	3059.4	2936.7
67.5°	4179.8	4157.8	4122.1	4278.1	4821.4	4845.2	4735.0	3761.7	2728.2	2568.5	2059.8
70°	4207.2	4212.6	4381.8	4946.5	5702.4	5708.3	5109.7	3558.0	2209.4	1664.9	1026.3
72.5°	3924.9	3916.0	4136.4	5068.6	6411.2	6431.5	5286.6	2882.5	1365.3	830.4	481.3
75°	3188.1	3203.5	3435.3	4434.8	5495.1	5513.0	4309.7	1699.5	648.7	406.3	308.0
77.5°	1372.4	1458.8	1915.7	3124.3	3935.6	3880.2	2221.3	688.6	346.1	289.5	235.9
80°	396.1	430.1	682.6	1485.6	2358.3	2316.6	879.2	257.9	241.2	217.4	169.2
82.5°	128.1	141.8	250.2	591.5	1056.7	1055.5	333.6	152.5	157.9	147.7	109.0
85°	35.7	41.1	76.8	179.3	327.0	320.5	96.5	72.1	84.0	85.2	54.2
87.5°	0.0	0.0	0.6	1.2	1.2	1.2	2.4	10.7	24.4	31.0	22.0
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: P631300
 CATALOG NUMBER: GWS-SA1F-735-U-T4FT-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1174.7	1174.7	1174.7	1174.7	1174.7	1174.7	1174.7	1174.7	1174.7	1174.7	1174.7
2.5°	1181.8	1180.0	1204.5	1223.5	1241.4	1253.3	1256.9	1259.3	1264.0	1266.4	1264.0
5°	1190.2	1199.1	1239.6	1269.4	1293.2	1307.5	1308.1	1306.9	1310.5	1307.5	1305.7
7.5°	1208.0	1225.3	1276.5	1308.1	1323.6	1324.2	1309.9	1293.2	1284.9	1277.7	1275.3
10°	1231.9	1257.5	1313.5	1334.3	1329.5	1307.5	1275.9	1249.7	1234.8	1224.1	1221.7
12.5°	1264.6	1293.2	1346.2	1345.6	1315.8	1276.5	1239.6	1208.0	1186.6	1174.1	1169.9
15°	1295.6	1331.9	1370.1	1342.1	1295.0	1247.3	1199.7	1157.4	1128.8	1109.1	1105.6
17.5°	1333.7	1372.4	1387.3	1330.7	1268.8	1207.4	1143.7	1088.3	1049.6	1026.3	1024.6
20°	1377.8	1412.3	1395.7	1311.1	1234.8	1154.4	1068.0	1006.1	964.4	941.8	943.5
22.5°	1429.0	1454.0	1398.0	1284.3	1187.8	1079.4	982.9	923.3	895.3	883.4	884.0
25°	1483.8	1499.9	1393.9	1247.9	1115.7	987.6	895.3	867.9	865.5	862.5	863.7
27.5°	1548.8	1545.2	1381.4	1196.7	1018.6	881.0	833.9	841.1	850.6	849.4	850.6
30°	1635.7	1601.8	1365.3	1125.8	903.0	791.7	797.6	817.9	830.4	831.6	835.1
32.5°	1735.2	1664.3	1339.7	1029.3	792.8	741.6	763.7	788.1	803.0	805.9	810.7
35°	1853.7	1735.8	1294.4	909.0	713.6	711.8	732.1	748.8	764.8	766.0	766.0
37.5°	1990.1	1807.3	1222.3	776.2	664.8	686.2	705.3	708.9	713.0	709.4	711.2
40°	2115.2	1876.4	1119.9	655.2	624.9	663.6	679.7	667.8	654.6	645.7	647.5
42.5°	2220.1	1923.4	984.1	570.7	584.4	643.3	655.8	631.4	605.8	589.1	591.5
45°	2338.0	1966.9	824.4	513.5	549.8	629.0	637.4	605.8	573.0	548.0	544.4
47.5°	2500.6	2055.7	682.6	473.6	525.4	621.3	635.0	592.1	549.2	511.7	507.5
50°	2701.4	2181.4	564.1	447.4	514.1	617.1	634.4	577.2	526.0	481.9	478.9
52.5°	2920.6	2304.1	476.5	427.1	502.7	604.6	631.4	560.5	501.6	453.9	450.3
55°	3066.5	2352.3	417.6	408.0	484.3	585.0	619.5	544.4	464.6	421.1	415.8
57.5°	3109.4	2290.4	376.5	390.8	460.5	557.6	596.9	510.5	442.0	407.4	403.3
60°	3035.6	2134.3	350.9	376.5	434.2	522.4	557.6	490.8	424.1	393.1	390.2
62.5°	2827.1	1893.6	331.2	361.6	407.4	485.5	532.5	467.0	404.5	380.0	375.9
65°	2407.7	1552.9	315.1	346.1	381.8	450.3	505.1	443.2	383.0	364.6	359.8
67.5°	1684.0	1090.7	297.8	327.6	356.2	416.4	476.5	421.1	361.0	347.3	342.5
70°	823.2	578.4	277.0	306.2	328.8	381.8	447.9	394.3	331.8	324.0	317.5
72.5°	392.0	323.5	252.6	277.0	291.3	336.0	400.3	355.6	297.2	280.6	269.2
75°	262.7	229.9	220.4	242.4	246.0	281.8	343.1	306.8	262.1	243.0	233.5
77.5°	199.0	175.7	185.3	204.9	197.8	231.7	282.3	273.4	236.5	219.2	214.4
80°	140.0	128.1	147.1	159.0	153.7	197.2	254.4	234.1	194.8	175.7	172.1
82.5°	88.2	85.8	108.4	110.2	112.0	156.1	209.1	184.1	151.3	124.5	115.6
85°	44.1	48.8	64.9	64.9	64.3	80.4	119.1	103.6	81.6	64.9	63.1
87.5°	14.9	20.8	28.0	22.6	17.3	13.7	15.5	19.1	20.3	19.7	19.7
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)