

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: P631575

Luminaire Tested: GWS-SA1F-830-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631575
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-830-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6464.5 lumens
Efficiency: N/A
Efficacy: 96.2 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

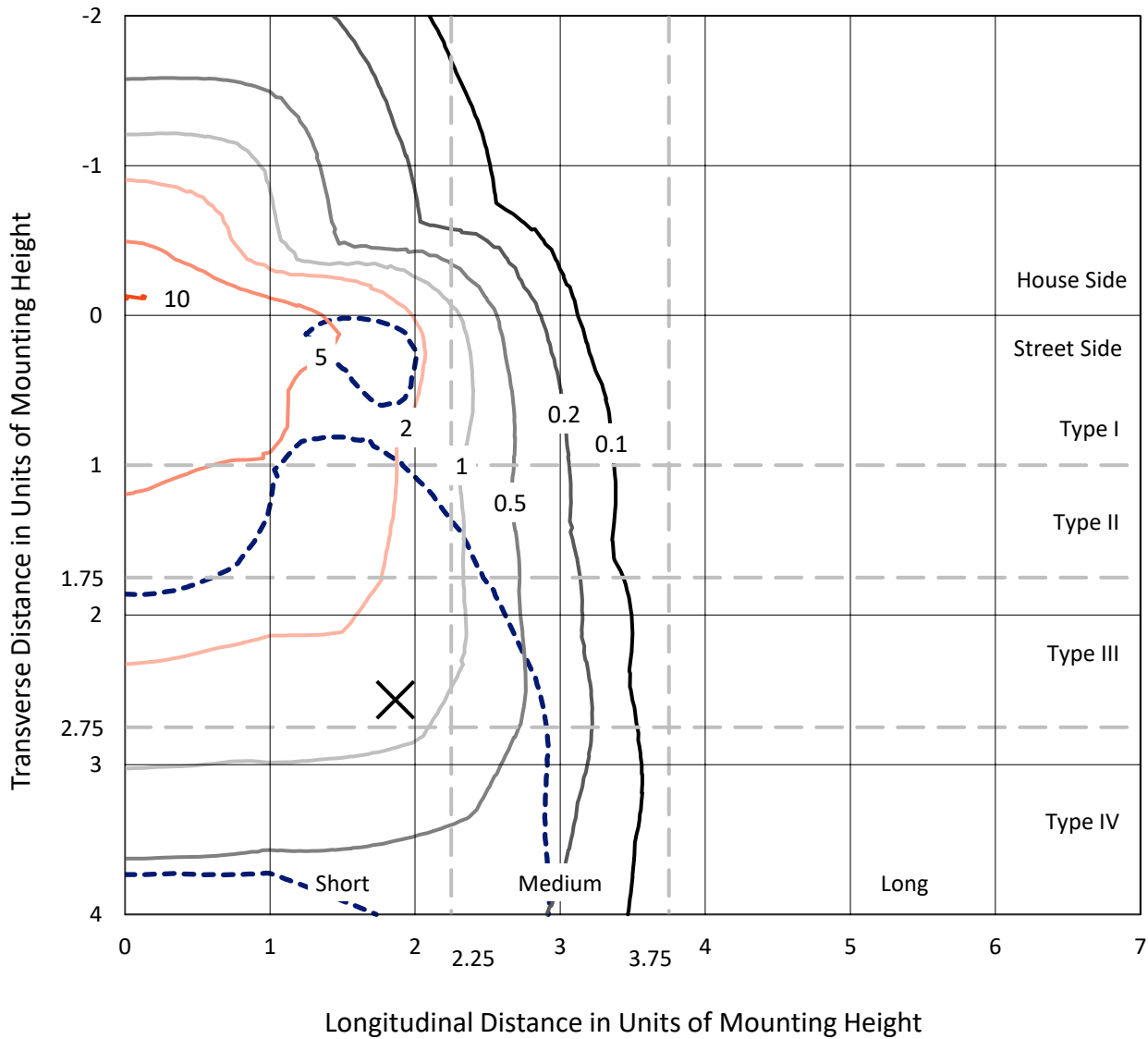
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

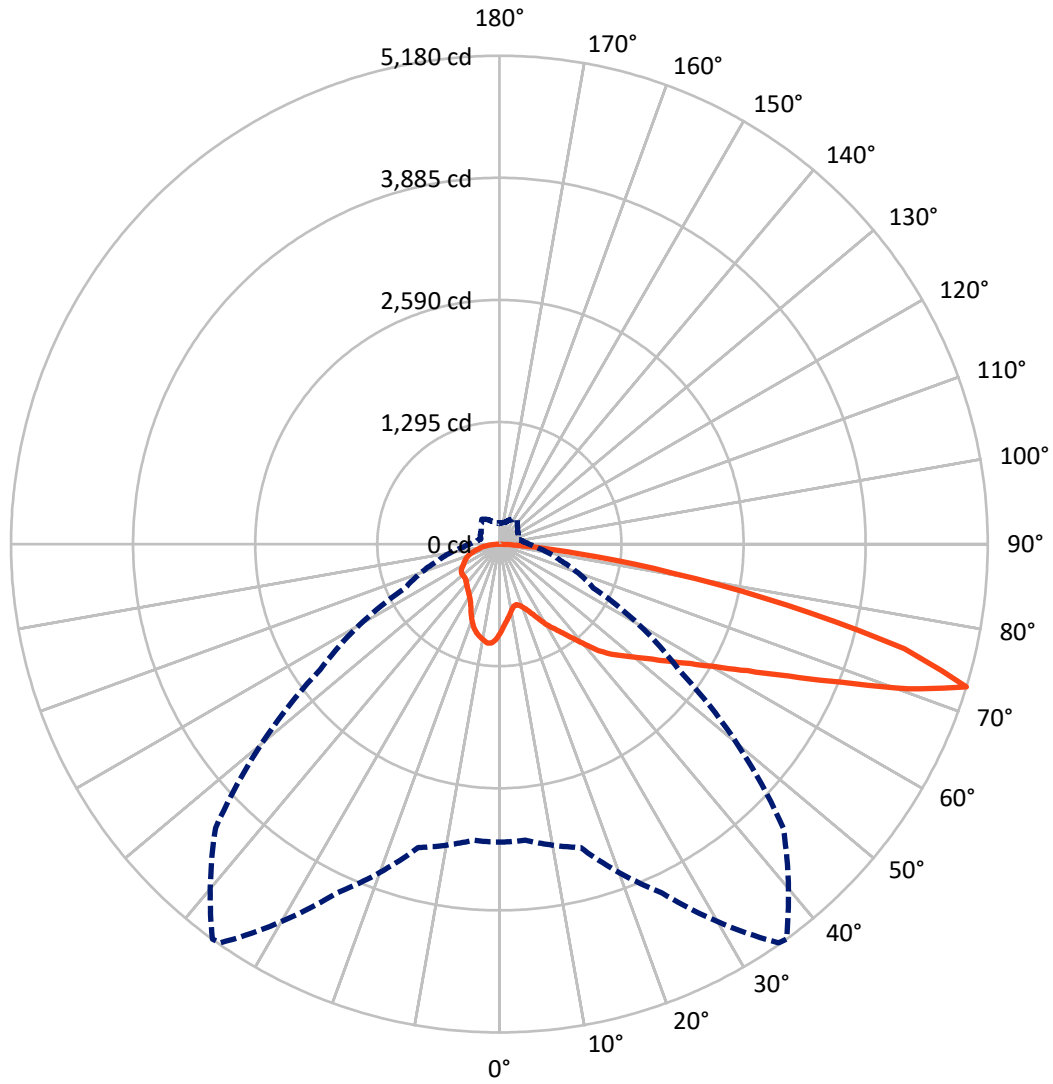
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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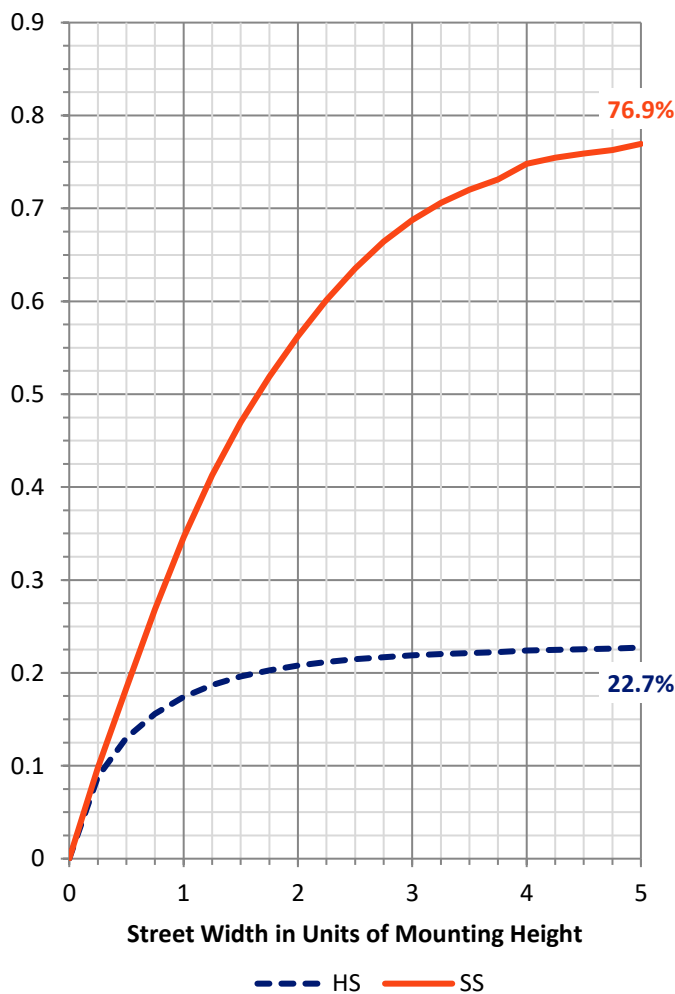
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1490.3	0.0	1490.3
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	4974.1	0.0	4974.1
	% Fixture	76.9	0.0	76.9
Total	Lumens	6464.5	0.0	6464.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	1.4
10°-20°	249.5	3.9
20°-30°	413.2	6.4
30°-40°	618.8	9.6
40°-50°	902.8	14.0
50°-60°	1285.0	19.9
60°-70°	1623.5	25.1
70°-80°	1156.9	17.9
80°-90°	126.3	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°	6464.5	100.0
0°-180°	6464.5	100.0

Coefficient of Utilization



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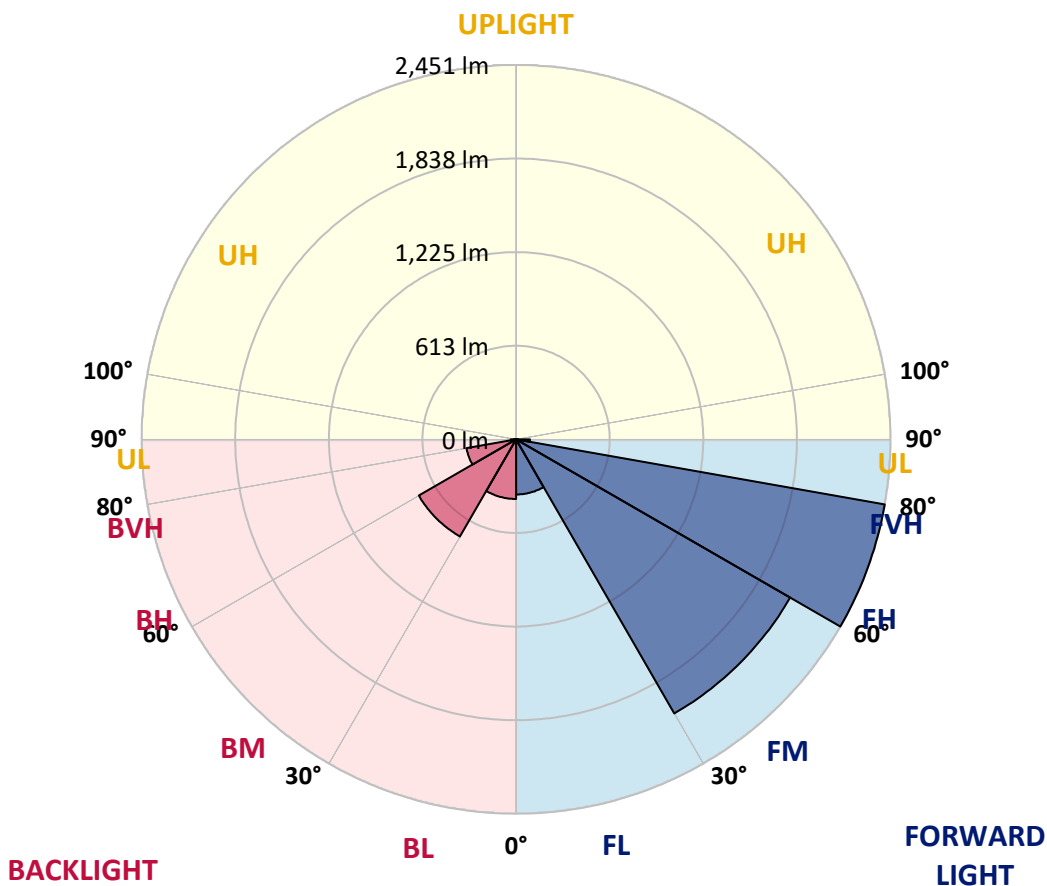
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.9	5.6			
FM (30°-60°)	2071.7	32.0			
FH (60°-80°)	2450.9	37.9			G2/5000
FVH (80°-90°)	90.6	1.4			G1/100
BL (0°-30°)	390.3	6.0	B1/500		
BM (30°-60°)	734.9	11.4	B1/1000		
BH (60°-80°)	329.5	5.1	B1/500		G1/500
BVH (80°-90°)	35.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1
2.5°	863.1	861.7	858.8	867.4	876.1	875.1	887.1	898.6	911.1	924.0	941.3
5°	794.0	793.1	790.7	803.6	816.6	816.1	835.8	854.5	879.9	907.7	942.3
7.5°	724.9	722.5	725.9	742.2	760.4	762.4	789.2	819.9	856.9	898.6	947.5
10°	664.0	663.5	665.0	683.2	710.5	712.5	747.0	789.7	838.6	894.3	959.5
12.5°	648.2	647.2	643.4	652.5	673.1	676.0	713.9	766.2	826.2	896.7	975.9
15°	674.1	671.7	658.2	653.9	664.0	666.4	698.5	752.3	819.0	901.0	996.5
17.5°	718.7	717.3	691.8	674.1	680.8	682.7	706.7	749.9	817.1	909.6	1021.9
20°	783.9	777.7	737.9	711.0	711.0	713.9	728.3	760.4	819.4	920.2	1050.7
22.5°	870.3	857.8	801.7	765.2	755.6	759.5	765.7	786.8	829.5	938.0	1086.7
25°	967.2	955.7	889.0	837.7	824.2	825.7	820.4	824.2	851.6	962.4	1131.3
27.5°	1070.4	1062.7	991.7	926.4	905.3	905.3	886.6	877.5	882.3	990.2	1181.2
30°	1162.5	1151.9	1092.0	1020.5	992.6	992.6	957.1	937.5	926.0	1024.3	1247.9
32.5°	1210.9	1204.7	1164.9	1110.2	1076.1	1070.8	1040.1	1017.1	990.2	1074.7	1338.1
35°	1274.3	1272.8	1248.8	1206.1	1163.0	1155.3	1134.2	1115.9	1069.4	1137.5	1458.0
37.5°	1353.9	1351.5	1347.7	1322.2	1270.4	1269.0	1250.3	1228.2	1167.8	1228.2	1603.4
40°	1443.2	1438.8	1434.0	1433.6	1402.4	1397.1	1395.7	1370.7	1286.3	1337.6	1755.0
42.5°	1566.0	1551.1	1506.0	1526.2	1549.2	1544.4	1562.6	1525.2	1434.0	1467.6	1898.5
45°	1717.1	1680.6	1591.4	1597.2	1655.2	1664.8	1728.1	1719.0	1596.7	1617.8	2049.6
47.5°	1807.8	1776.1	1693.1	1688.3	1760.8	1772.8	1910.4	1927.7	1771.8	1798.7	2236.2
50°	1882.1	1860.1	1791.9	1798.7	1875.4	1887.4	2091.3	2128.3	1936.8	1983.9	2453.1
52.5°	1971.9	1940.2	1887.4	1919.1	2013.1	2027.5	2292.3	2332.2	2085.6	2187.3	2677.6
55°	2022.2	2009.3	2010.2	2058.7	2176.7	2196.4	2503.0	2496.2	2221.8	2361.4	2846.5
57.5°	2138.3	2133.5	2177.7	2195.9	2367.7	2393.1	2713.6	2656.0	2345.6	2496.2	2927.6
60°	2343.2	2331.2	2369.6	2397.4	2603.7	2639.7	2948.7	2812.4	2429.6	2596.5	2900.2
62.5°	2631.1	2616.2	2617.6	2661.8	2919.9	2957.8	3210.1	2942.9	2455.5	2611.9	2727.0
65°	2989.0	2967.4	2942.9	3002.9	3339.7	3371.4	3494.7	3037.9	2393.6	2464.1	2365.3
67.5°	3366.6	3348.8	3320.0	3445.7	3883.3	3902.5	3813.7	3029.8	2197.4	2068.8	1659.0
70°	3388.6	3392.9	3529.2	3984.0	4592.8	4597.6	4115.5	2865.7	1779.5	1341.0	826.6
72.5°	3161.2	3154.0	3331.5	4082.4	5163.8	5180.1	4258.0	2321.6	1099.6	668.8	387.7
75°	2567.7	2580.2	2766.8	3571.9	4425.9	4440.3	3471.1	1368.8	522.5	327.2	248.0
77.5°	1105.4	1175.0	1542.9	2516.4	3169.8	3125.2	1789.1	554.6	278.7	233.2	190.0
80°	319.0	346.4	549.8	1196.5	1899.4	1865.8	708.1	207.7	194.3	175.1	136.3
82.5°	103.2	114.2	201.5	476.4	851.1	850.2	268.7	122.8	127.1	119.0	87.8
85°	28.8	33.1	61.9	144.4	263.4	258.1	77.7	58.1	67.6	68.6	43.7
87.5°	0.0	0.0	0.5	1.0	1.0	1.0	1.9	8.6	19.7	24.9	17.8
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°	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1
2.5°	951.9	950.4	970.1	985.4	999.8	1009.4	1012.3	1014.2	1018.1	1020.0	1018.1
5°	958.6	965.8	998.4	1022.4	1041.6	1053.1	1053.6	1052.6	1055.5	1053.1	1051.7
7.5°	973.0	986.9	1028.1	1053.6	1066.1	1066.5	1055.0	1041.6	1034.9	1029.1	1027.2
10°	992.2	1012.8	1057.9	1074.7	1070.8	1053.1	1027.7	1006.6	994.6	985.9	984.0
12.5°	1018.6	1041.6	1084.3	1083.8	1059.8	1028.1	998.4	973.0	955.7	945.6	942.3
15°	1043.5	1072.8	1103.5	1080.9	1043.0	1004.6	966.3	932.2	909.2	893.3	890.5
17.5°	1074.2	1105.4	1117.4	1071.8	1021.9	972.5	921.2	876.5	845.4	826.6	825.2
20°	1109.7	1137.5	1124.1	1056.0	994.6	929.8	860.2	810.3	776.7	758.5	760.0
22.5°	1151.0	1171.1	1126.0	1034.4	956.7	869.3	791.6	743.6	721.1	711.5	712.0
25°	1195.1	1208.1	1122.7	1005.1	898.6	795.5	721.1	699.0	697.1	694.7	695.7
27.5°	1247.4	1244.5	1112.6	963.9	820.4	709.6	671.7	677.4	685.1	684.2	685.1
30°	1317.5	1290.1	1099.6	906.8	727.3	637.6	642.4	658.7	668.8	669.8	672.6
32.5°	1397.6	1340.5	1079.0	829.0	638.6	597.3	615.1	634.7	646.7	649.1	653.0
35°	1493.0	1398.1	1042.5	732.1	574.8	573.3	589.6	603.1	616.0	617.0	617.0
37.5°	1602.9	1455.6	984.5	625.1	535.4	552.7	568.0	570.9	574.3	571.4	572.8
40°	1703.7	1511.3	902.0	527.7	503.3	534.5	547.4	537.8	527.3	520.1	521.5
42.5°	1788.1	1549.2	792.6	459.6	470.7	518.2	528.2	508.6	487.9	474.5	476.4
45°	1883.1	1584.2	664.0	413.6	442.8	506.6	513.4	487.9	461.5	441.4	438.5
47.5°	2014.1	1655.7	549.8	381.4	423.2	500.4	511.4	476.9	442.3	412.1	408.8
50°	2175.8	1756.9	454.3	360.3	414.0	497.0	511.0	464.9	423.6	388.1	385.7
52.5°	2352.3	1855.8	383.8	344.0	404.9	487.0	508.6	451.5	404.0	365.6	362.7
55°	2469.9	1894.6	336.3	328.6	390.1	471.1	499.0	438.5	374.2	339.2	334.9
57.5°	2504.4	1844.7	303.2	314.7	370.9	449.1	480.7	411.2	356.0	328.2	324.8
60°	2444.9	1719.0	282.6	303.2	349.8	420.8	449.1	395.3	341.6	316.6	314.3
62.5°	2277.0	1525.2	266.8	291.2	328.2	391.0	428.9	376.1	325.8	306.1	302.7
65°	1939.2	1250.8	253.8	278.7	307.5	362.7	406.8	356.9	308.5	293.6	289.8
67.5°	1356.3	878.5	239.9	263.9	286.9	335.4	383.8	339.2	290.7	279.7	275.9
70°	663.0	465.9	223.1	246.6	264.8	307.5	360.8	317.6	267.2	261.0	255.7
72.5°	315.7	260.5	203.4	223.1	234.6	270.6	322.4	286.4	239.4	226.0	216.9
75°	211.6	185.2	177.5	195.3	198.1	226.9	276.3	247.1	211.1	195.7	188.1
77.5°	160.2	141.5	149.2	165.0	159.3	186.6	227.4	220.2	190.5	176.6	172.7
80°	112.7	103.2	118.5	128.1	123.8	158.8	204.9	188.6	156.9	141.5	138.7
82.5°	71.0	69.1	87.3	88.8	90.2	125.7	168.4	148.2	121.9	100.3	93.1
85°	35.5	39.3	52.3	52.3	51.8	64.8	96.0	83.5	65.7	52.3	50.9
87.5°	12.0	16.8	22.5	18.2	13.9	11.0	12.5	15.4	16.3	15.8	15.8
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)