

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: P629665

Luminaire Tested: GWS-SA1C-727-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-727-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3646.7 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

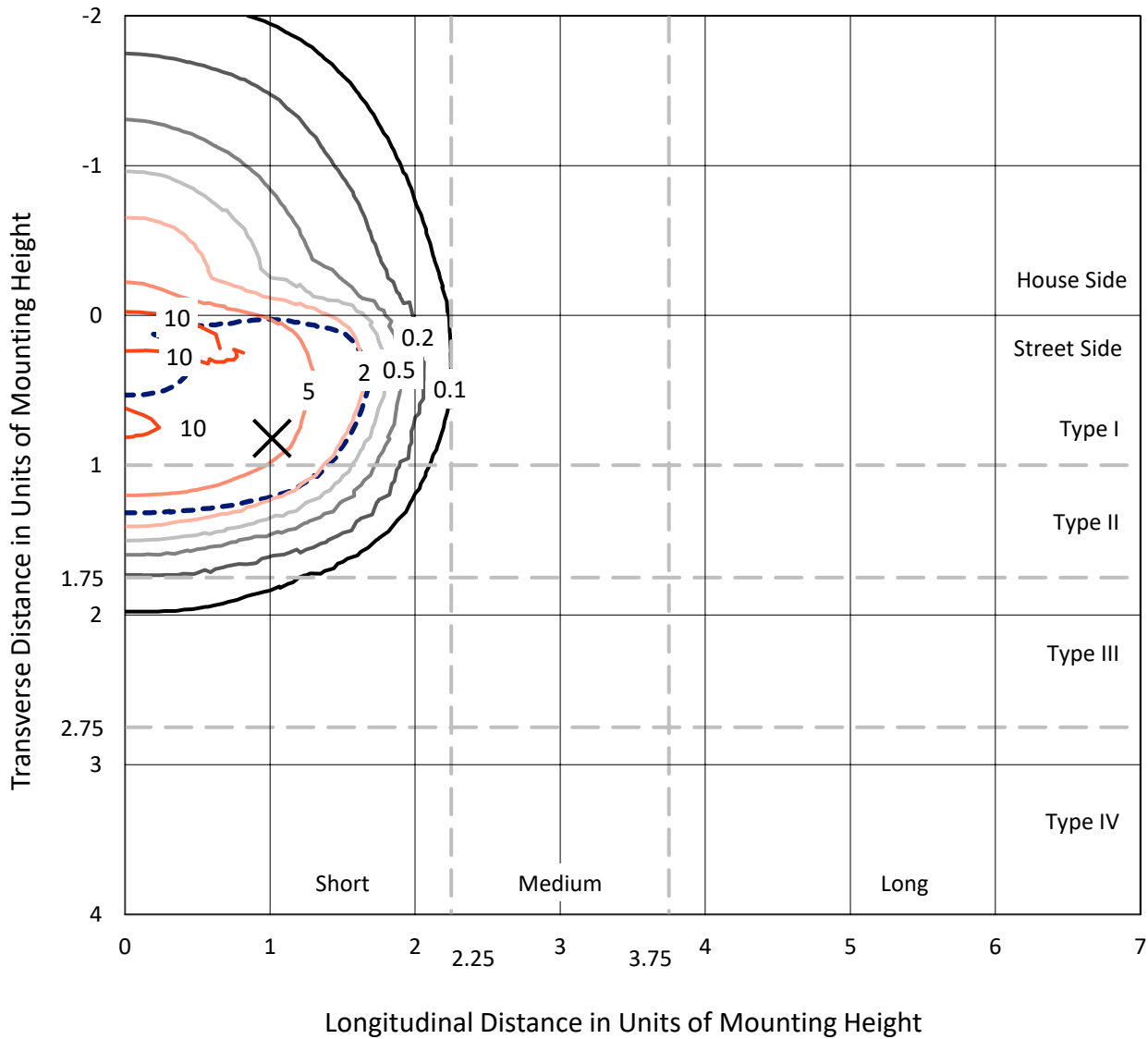
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

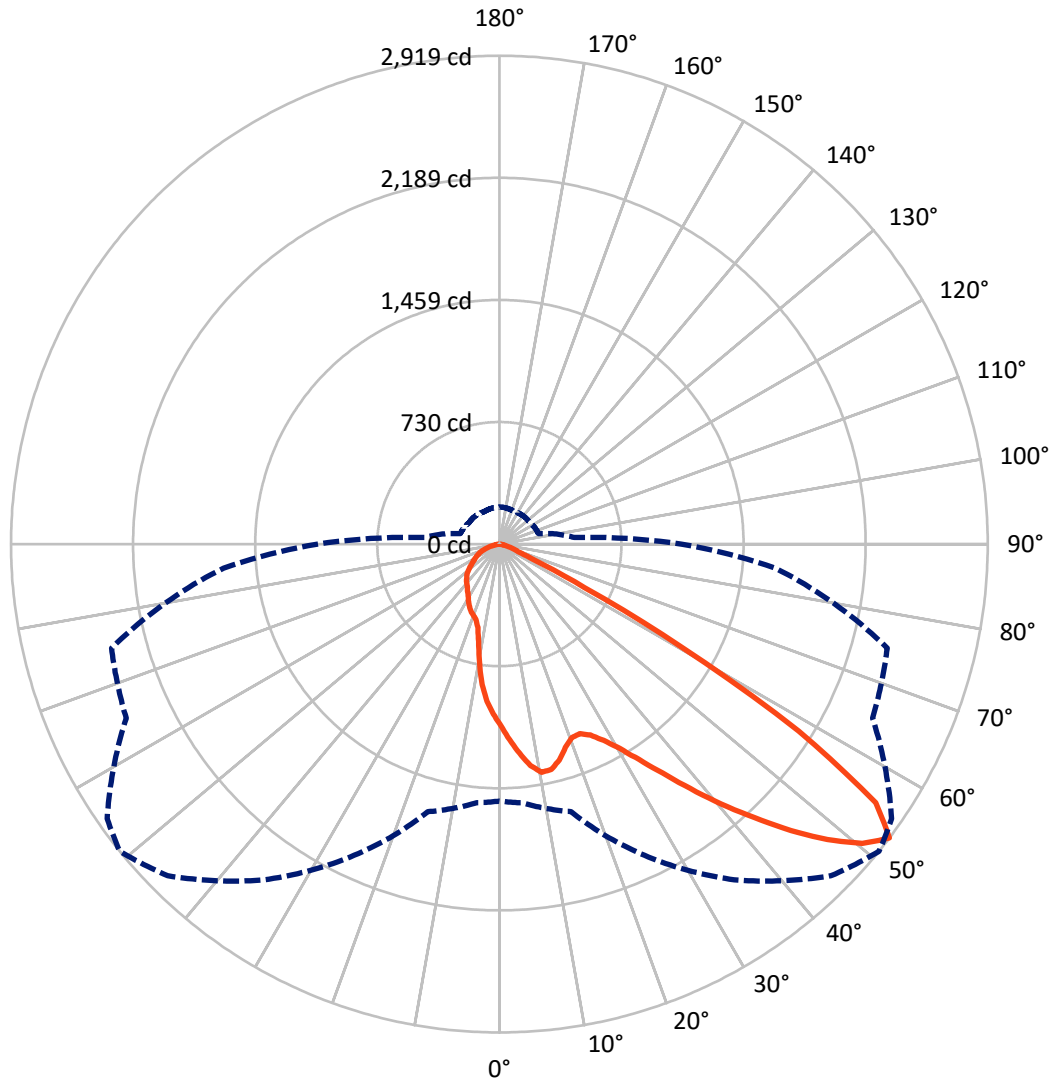
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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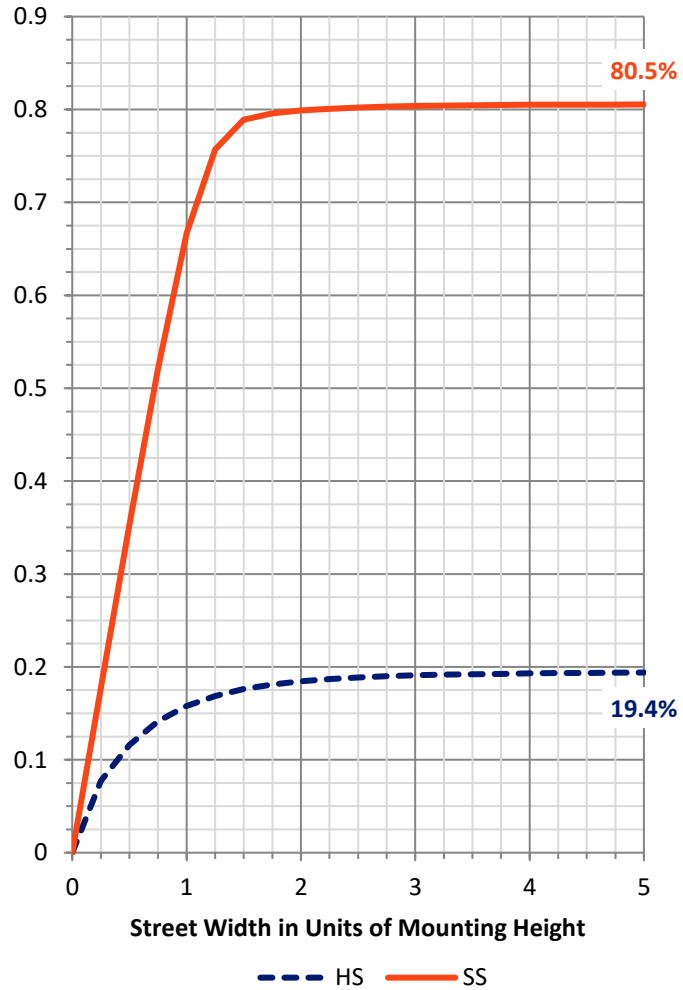
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	710.5	0.0	710.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	2936.2	0.0	2936.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	3646.7	0.0	3646.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	2.8
10°-20°	263.3	7.2
20°-30°	428.1	11.7
30°-40°	678.4	18.6
40°-50°	1023.1	28.1
50°-60°	885.1	24.3
60°-70°	200.7	5.5
70°-80°	59.2	1.6
80°-90°	7.6	0.2
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°	3646.7	100.0
0°-180°	3646.7	100.0

Coefficient of Utilization



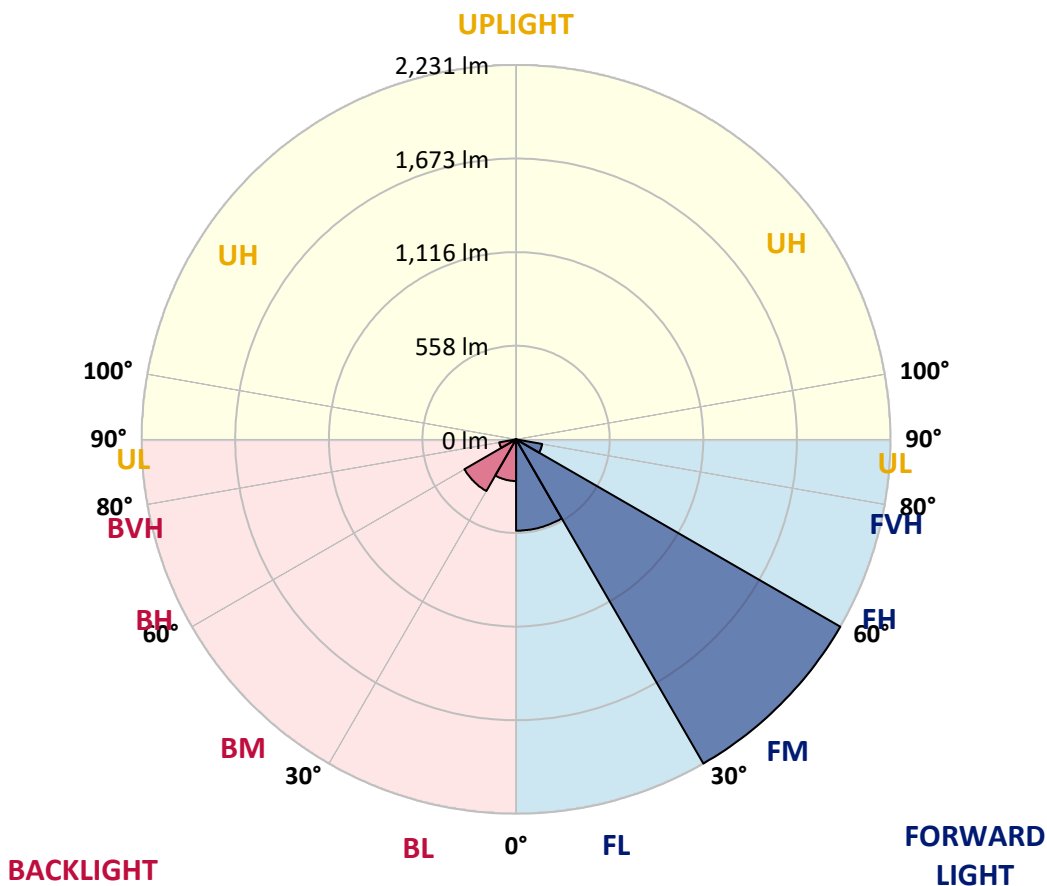
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	544.3	14.9			
FM (30°-60°)	2231.1	61.2			
FH (60°-80°)	157.9	4.3			G0/660
FVH (80°-90°)	2.9	0.1			G0/10
BL (0°-30°)	248.4	6.8	B1/500		
BM (30°-60°)	355.5	9.7	B1/1000		
BH (60°-80°)	101.9	2.8	B0/110		G0/110
BVH (80°-90°)	4.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1210.0	1216.9	1206.3	1202.2	1195.6	1184.1	1170.8	1167.1	1138.5	1119.8	1098.8
5°	1331.6	1335.4	1326.7	1318.1	1301.6	1281.2	1255.5	1250.1	1198.2	1155.3	1110.6
7.5°	1358.7	1357.3	1364.7	1369.6	1367.6	1359.6	1336.8	1326.1	1264.2	1196.2	1130.2
10°	1251.5	1243.4	1271.1	1303.9	1343.4	1389.0	1386.4	1385.5	1331.6	1251.2	1155.3
12.5°	1109.4	1105.4	1127.9	1169.1	1243.7	1344.6	1382.3	1411.7	1392.4	1303.7	1183.2
15°	1028.2	1026.7	1042.0	1071.7	1131.0	1258.4	1339.1	1397.3	1444.6	1359.8	1212.9
17.5°	1013.5	1014.3	1019.5	1036.5	1079.2	1184.1	1277.4	1358.7	1485.2	1421.5	1250.1
20°	1056.4	1062.2	1053.2	1055.8	1078.9	1157.3	1235.4	1319.8	1511.1	1483.5	1290.1
22.5°	1151.8	1149.8	1130.2	1118.7	1118.9	1173.7	1230.8	1301.6	1528.1	1543.7	1326.4
25°	1259.9	1257.6	1234.2	1208.6	1192.4	1218.4	1263.9	1320.9	1543.4	1598.7	1355.5
27.5°	1387.5	1380.3	1354.4	1321.5	1285.8	1297.0	1327.9	1373.1	1567.0	1652.9	1374.8
30°	1511.1	1519.5	1482.3	1443.4	1405.7	1398.8	1416.6	1457.5	1615.2	1716.3	1397.9
32.5°	1675.1	1672.2	1631.0	1580.3	1526.4	1521.2	1535.3	1572.8	1701.6	1803.9	1433.0
35°	1873.6	1874.2	1815.7	1747.1	1670.5	1656.7	1680.3	1716.6	1830.4	1922.6	1488.7
37.5°	2080.0	2079.1	2028.1	1950.3	1845.7	1826.1	1853.2	1880.3	1991.5	2084.3	1575.1
40°	2224.6	2230.4	2206.5	2165.6	2066.4	2018.6	2042.5	2061.2	2166.7	2274.5	1688.9
42.5°	2306.8	2315.4	2320.6	2345.1	2292.9	2241.9	2233.3	2243.1	2323.2	2451.1	1795.8
45°	2324.3	2335.9	2373.6	2464.4	2484.6	2470.1	2441.9	2418.3	2439.9	2576.5	1865.9
47.5°	2246.8	2267.0	2347.7	2506.5	2624.3	2669.6	2638.1	2602.1	2507.3	2608.8	1858.7
50°	1939.6	1963.3	2145.1	2420.6	2644.2	2809.0	2811.9	2758.6	2499.3	2515.7	1768.2
52.5°	1535.6	1551.8	1655.8	2052.0	2449.1	2803.3	2918.5	2861.5	2460.4	2399.3	1654.9
55°	917.8	943.7	1040.9	1353.8	1907.9	2484.6	2730.1	2757.7	2441.3	2301.6	1577.7
57.5°	309.8	322.5	415.2	597.9	1124.4	1819.2	2109.4	2221.7	2216.3	2152.3	1427.0
60°	147.5	150.4	169.2	226.8	450.1	950.7	1248.6	1378.3	1496.4	1508.3	887.8
62.5°	112.4	114.1	123.6	136.0	181.0	400.5	572.3	671.4	717.2	615.5	323.3
65°	93.9	95.4	102.6	110.4	123.0	173.5	219.6	253.3	228.2	177.8	154.2
67.5°	78.4	79.5	85.0	93.4	102.0	116.1	121.9	125.4	131.4	147.5	141.8
70°	61.4	62.5	68.3	75.5	83.9	87.3	92.8	96.2	108.3	129.1	128.5
72.5°	47.3	48.7	51.9	56.5	63.4	66.9	72.9	76.9	83.9	100.6	107.5
75°	34.6	35.4	38.3	39.8	40.6	39.8	45.8	50.4	59.7	66.0	67.7
77.5°	14.1	15.8	15.3	15.3	18.2	21.9	25.1	28.0	34.3	38.0	38.3
80°	5.8	6.3	7.5	8.4	10.1	13.0	15.0	16.1	19.0	21.3	23.1
82.5°	3.5	3.7	4.3	4.6	5.8	7.5	8.6	9.5	11.8	14.1	15.0
85°	1.7	1.7	2.0	2.3	2.9	3.5	4.0	4.6	6.1	7.5	8.4
87.5°	0.3	0.3	0.3	0.6	0.9	1.2	1.4	1.7	2.0	2.3	2.9
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°	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1086.4	1070.8	1052.7	1038.3	1021.5	1009.2	991.6	980.6	970.3	961.6	955.3
5°	1087.5	1061.3	1023.6	990.1	955.6	922.7	889.0	861.6	837.1	816.7	814.9
7.5°	1094.2	1056.4	997.3	938.8	871.4	806.3	741.2	688.1	647.8	626.8	622.4
10°	1105.4	1055.8	970.5	877.2	762.2	657.3	580.1	539.7	516.4	508.0	505.2
12.5°	1117.2	1054.4	936.2	790.1	630.5	538.6	496.2	491.3	495.6	496.2	495.9
15°	1131.6	1053.5	893.0	688.1	534.3	483.5	486.4	496.8	506.9	509.2	509.2
17.5°	1149.2	1051.5	834.2	588.4	474.0	472.9	488.2	502.0	511.5	513.2	513.2
20°	1167.6	1046.3	761.9	507.2	449.5	466.3	482.7	493.3	500.0	502.3	502.6
22.5°	1180.3	1032.5	678.6	446.9	434.3	453.6	465.4	476.3	476.3	470.6	468.8
25°	1182.9	1002.8	588.4	405.7	416.1	434.0	446.1	439.7	427.9	423.3	423.0
27.5°	1173.4	959.6	499.4	376.3	394.2	412.1	410.1	400.8	395.7	391.0	392.8
30°	1161.9	907.7	422.2	352.1	368.9	386.4	379.5	376.3	372.6	367.4	368.6
32.5°	1154.1	849.8	362.8	333.4	351.8	354.7	359.6	359.3	355.9	346.1	345.5
35°	1156.4	791.3	323.0	318.1	337.7	336.6	345.8	344.1	320.2	306.6	305.7
37.5°	1174.8	735.1	299.7	306.0	315.3	322.5	330.5	309.8	301.4	292.8	293.4
40°	1210.0	683.0	287.0	299.4	301.7	312.4	293.6	293.4	289.6	281.8	281.5
42.5°	1249.8	638.9	278.4	296.2	293.1	295.1	275.2	277.5	277.2	272.3	270.9
45°	1274.0	598.2	271.5	284.4	285.3	265.1	259.1	261.7	263.1	260.5	260.2
47.5°	1248.9	551.5	264.2	266.3	273.8	251.6	244.1	244.4	247.0	247.2	246.1
50°	1178.6	499.4	255.6	250.7	245.8	237.4	230.5	229.1	231.7	234.3	235.1
52.5°	1087.8	449.5	241.2	233.7	222.2	222.2	219.0	214.4	217.9	221.3	222.5
55°	1021.3	412.7	220.7	212.4	199.7	204.0	203.4	199.4	204.0	206.6	207.5
57.5°	885.0	331.7	194.2	191.6	181.0	186.2	187.3	182.1	179.8	180.4	181.3
60°	525.3	214.1	175.2	174.9	165.4	171.5	174.9	169.7	162.8	163.7	164.8
62.5°	235.7	163.7	151.3	150.1	149.8	157.6	161.4	156.5	146.7	147.5	148.7
65°	148.4	141.5	131.4	131.4	136.0	142.6	145.5	141.5	130.3	128.8	130.0
67.5°	137.7	131.7	121.3	119.3	121.6	127.1	127.4	119.6	113.0	111.8	111.8
70°	123.6	119.0	108.9	104.9	104.0	103.7	102.9	100.9	96.5	95.4	96.0
72.5°	102.3	99.1	92.8	88.5	86.2	85.9	82.4	80.7	76.9	76.4	76.1
75°	67.7	68.6	68.6	68.0	66.0	65.1	61.4	59.7	55.3	53.6	53.3
77.5°	40.1	40.9	42.1	42.4	42.1	42.1	38.6	36.6	32.3	30.0	29.4
80°	24.5	25.1	25.6	26.5	25.4	24.5	21.3	19.3	17.3	15.8	15.6
82.5°	15.8	16.4	16.7	17.3	16.7	15.6	13.0	11.8	10.4	9.2	8.9
85°	8.9	9.2	9.8	9.8	8.9	8.1	6.6	5.8	4.9	4.3	4.3
87.5°	3.2	3.2	3.2	3.5	2.9	2.6	1.7	1.2	0.9	0.9	0.9
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)