

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: P629866

Luminaire Tested: GWS-SA1C-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-740-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4214.1 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

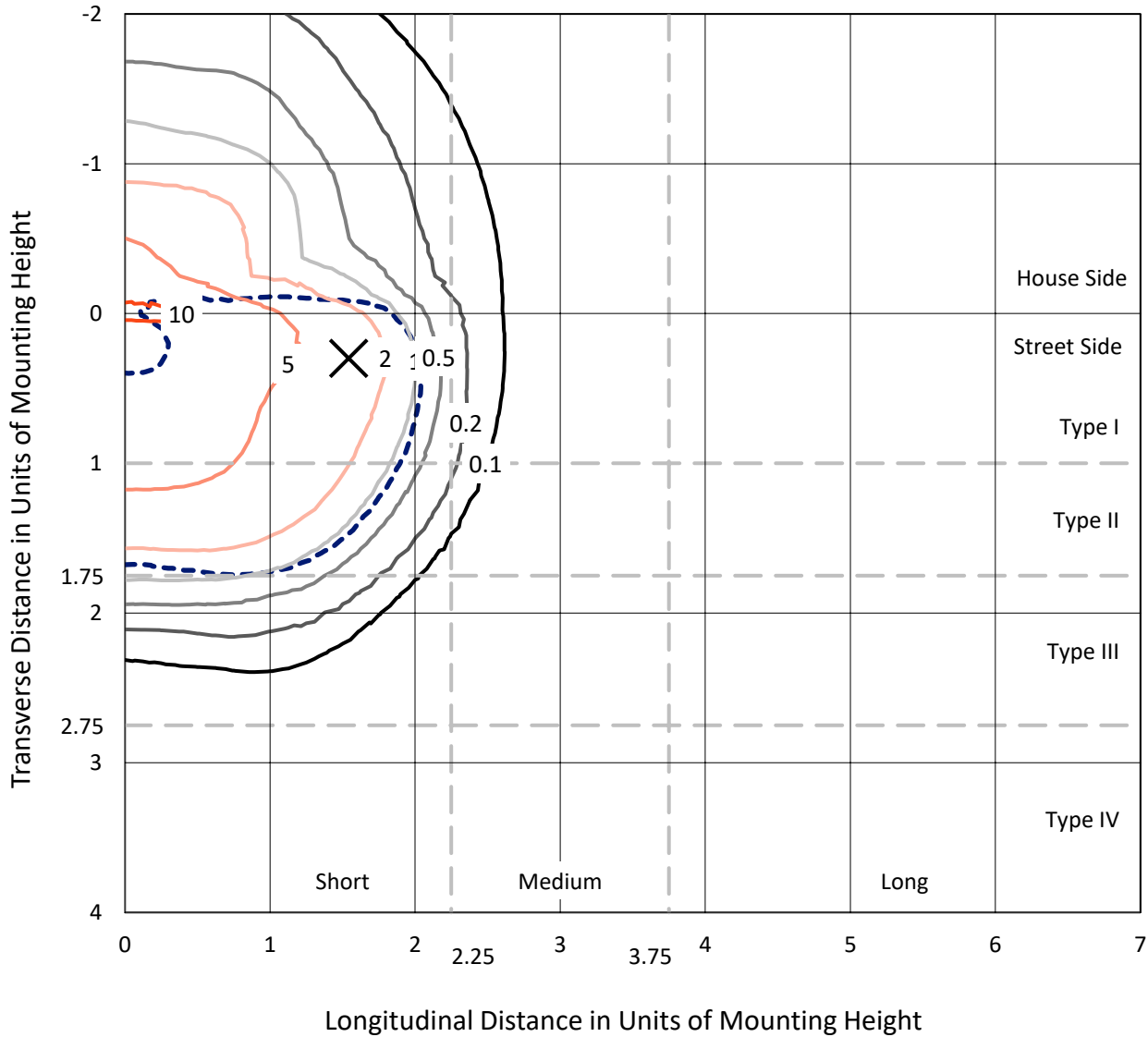
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

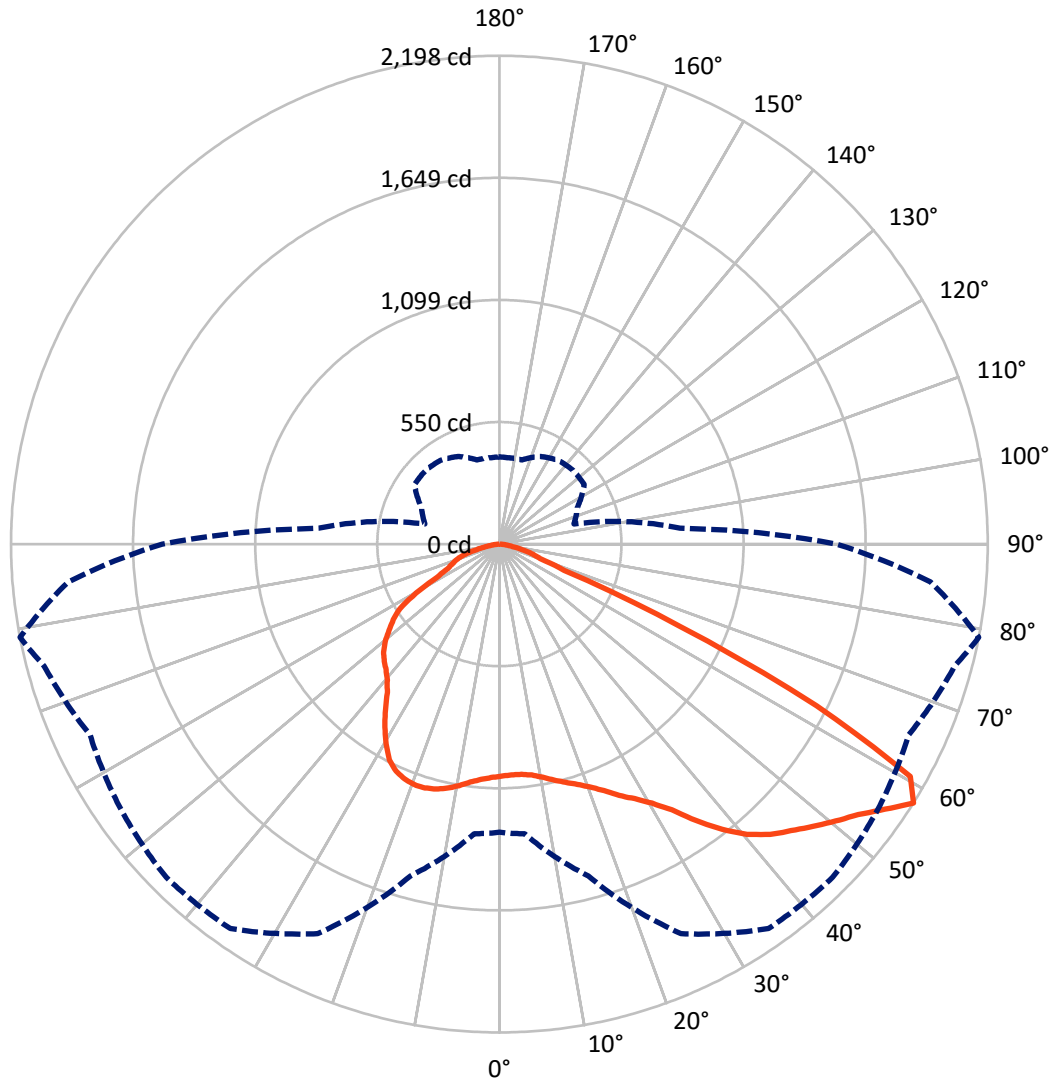
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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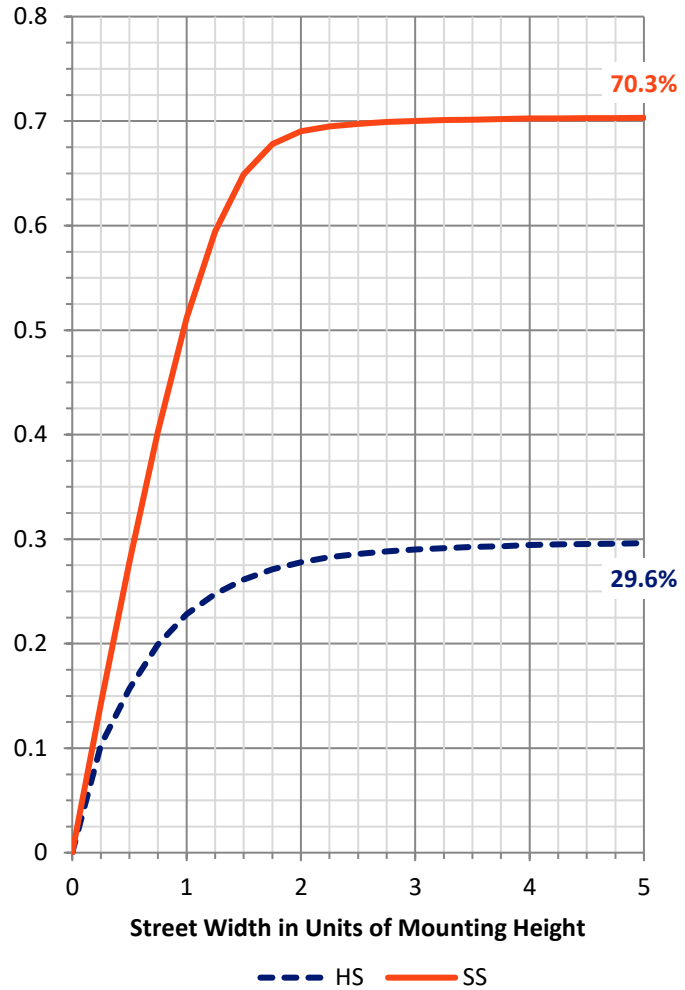
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1252.7	0.0	1252.7
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	2961.4	0.0	2961.4
	% Fixture	70.3	0.0	70.3
Total	Lumens	4214.1	0.0	4214.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	2.3
10°-20°	268.8	6.4
20°-30°	455.6	10.8
30°-40°	697.3	16.5
40°-50°	929.8	22.1
50°-60°	1073.9	25.5
60°-70°	558.0	13.2
70°-80°	118.6	2.8
80°-90°	15.4	0.4
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°	4214.1	100.0
0°-180°	4214.1	100.0

Coefficient of Utilization



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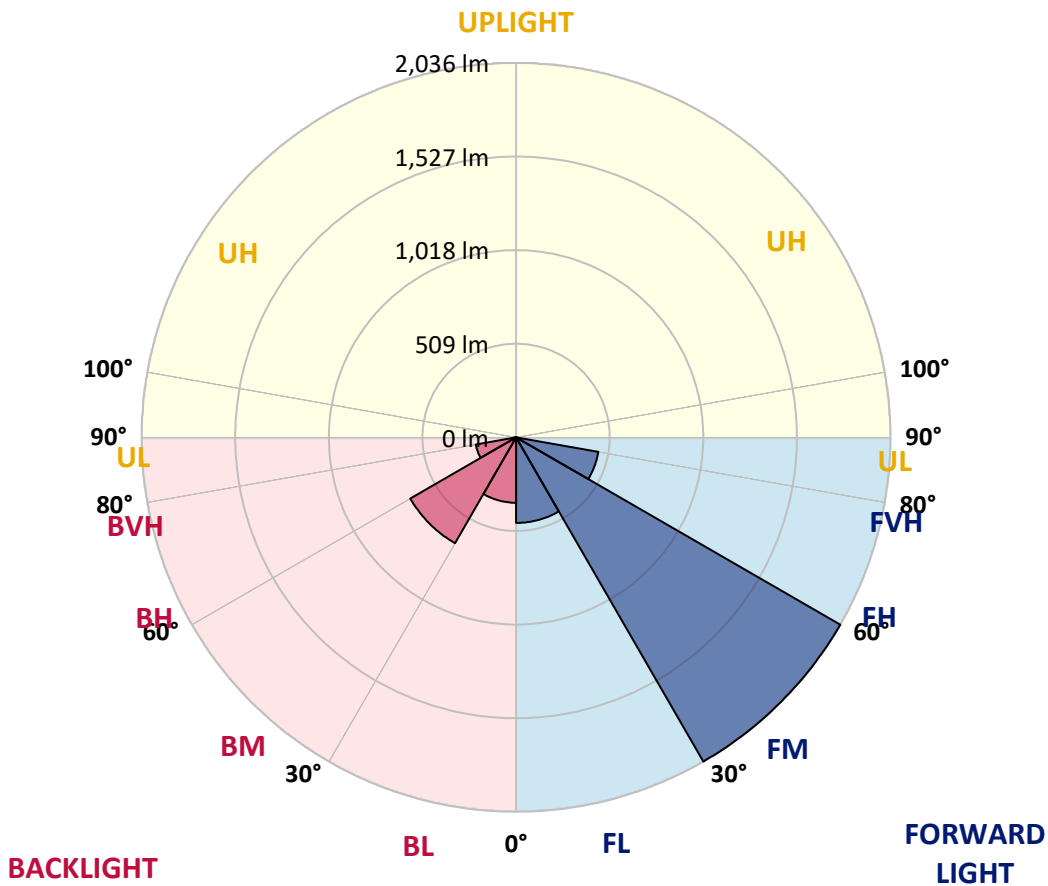
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	465.3	11.0			
FM (30°-60°)	2036.4	48.3			
FH (60°-80°)	454.4	10.8			G0/660
FVH (80°-90°)	5.4	0.1			G0/10
BL (0°-30°)	355.7	8.4	B1/500		
BM (30°-60°)	664.7	15.8	B1/1000		
BH (60°-80°)	222.3	5.3	B1/500		G1/500
BVH (80°-90°)	10.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	996.8	994.7	995.4	998.2	1008.5	1016.1	1024.0	1031.3	1038.1	1040.2	1041.9
5°	961.3	957.5	958.6	963.0	975.1	987.8	1002.0	1019.2	1035.7	1041.3	1048.5
7.5°	936.2	935.5	937.2	944.1	956.8	968.9	987.2	1011.6	1040.2	1049.5	1062.3
10°	902.7	901.4	908.3	922.4	943.4	962.7	984.4	1013.3	1053.3	1067.1	1086.7
12.5°	876.2	875.5	882.8	902.4	929.3	959.9	989.9	1022.3	1070.9	1089.8	1114.0
15°	891.7	888.6	889.0	902.7	926.9	963.0	1003.7	1038.5	1088.5	1112.6	1143.6
17.5°	936.8	931.3	927.2	929.6	943.4	981.0	1024.7	1060.2	1108.8	1137.0	1174.9
20°	999.2	996.1	984.7	977.2	980.3	1013.3	1057.8	1090.9	1135.3	1167.0	1207.7
22.5°	1082.9	1075.4	1059.9	1047.8	1038.5	1064.3	1105.3	1133.9	1172.2	1205.3	1247.6
25°	1186.7	1175.6	1151.2	1132.2	1112.2	1138.8	1175.3	1197.0	1222.8	1253.5	1293.8
27.5°	1292.4	1283.1	1255.9	1230.4	1205.6	1222.1	1265.6	1278.0	1275.2	1297.6	1332.1
30°	1405.1	1393.4	1367.5	1340.0	1307.9	1318.6	1357.6	1363.8	1334.5	1353.1	1376.5
32.5°	1524.0	1512.6	1490.2	1458.2	1422.0	1426.1	1436.8	1442.7	1414.7	1425.4	1443.3
35°	1644.9	1634.2	1611.5	1579.8	1553.3	1528.1	1501.2	1524.7	1508.5	1529.1	1527.8
37.5°	1755.5	1744.8	1730.7	1706.2	1660.8	1611.1	1549.1	1578.1	1603.2	1629.4	1624.9
40°	1830.3	1823.0	1826.5	1822.7	1764.1	1665.9	1572.6	1604.3	1672.8	1717.6	1715.2
42.5°	1894.7	1887.5	1907.5	1921.9	1853.0	1716.6	1583.9	1614.2	1717.3	1787.2	1783.8
45°	1923.3	1921.2	1954.3	2000.2	1934.3	1770.3	1613.2	1634.9	1751.0	1840.6	1827.5
47.5°	1889.2	1896.4	1961.6	2039.1	2001.9	1834.1	1673.2	1678.7	1795.1	1898.5	1861.6
50°	1821.3	1837.2	1925.0	2040.1	2051.1	1906.1	1756.2	1742.4	1854.4	1960.2	1879.6
52.5°	1722.4	1739.0	1882.3	2032.2	2079.4	1989.5	1866.8	1847.2	1929.2	2021.9	1882.7
55°	1495.4	1517.8	1784.5	2014.3	2107.0	2065.3	1991.5	1951.6	2025.6	2106.6	1913.3
57.5°	1297.3	1309.0	1546.0	1934.7	2112.5	2121.1	2080.4	2032.9	2121.4	2198.3	1947.8
60°	952.0	954.8	1168.0	1600.8	1943.3	2088.7	2073.2	2002.6	2076.0	2124.9	1790.0
62.5°	537.9	538.2	708.4	1068.5	1451.6	1702.5	1712.1	1649.7	1588.1	1602.5	1245.9
65°	201.9	220.9	323.5	525.1	836.9	1005.1	1045.0	1059.5	956.8	893.1	668.1
67.5°	135.1	139.5	188.8	270.1	372.5	430.0	481.0	482.4	352.8	314.6	263.2
70°	103.0	107.5	148.5	193.3	188.8	174.3	188.5	183.3	189.5	194.7	200.2
72.5°	76.8	81.3	115.1	136.4	113.4	111.6	126.5	140.6	153.7	159.2	167.8
75°	51.0	54.4	77.5	73.0	62.7	74.1	92.3	106.5	114.0	120.6	127.1
77.5°	32.4	34.8	41.3	33.4	34.8	43.4	53.8	66.5	73.7	80.3	83.7
80°	14.8	14.5	14.1	15.8	19.6	25.5	32.4	40.0	45.5	48.2	50.3
82.5°	5.9	6.5	7.2	8.6	10.7	13.8	18.3	23.4	27.9	28.6	30.3
85°	2.4	2.8	3.1	3.8	4.8	6.2	7.6	10.7	13.4	14.5	15.5
87.5°	0.0	0.0	0.0	0.0	0.3	0.7	1.0	1.7	3.1	3.4	3.8
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°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
2.5°	1051.2	1046.8	1054.3	1059.5	1064.3	1059.2	1057.4	1053.0	1052.3	1052.3	1054.7
5°	1060.9	1057.8	1065.7	1068.8	1068.5	1057.1	1050.2	1041.3	1036.8	1036.8	1037.5
7.5°	1078.1	1076.4	1080.9	1076.1	1065.0	1041.9	1019.2	1000.2	987.5	981.0	983.0
10°	1106.7	1104.6	1100.9	1082.9	1051.2	1003.3	956.8	922.4	901.7	890.0	890.7
12.5°	1134.6	1131.2	1117.7	1078.1	1013.0	936.8	875.9	837.3	814.5	800.7	797.6
15°	1165.3	1156.3	1127.4	1053.3	950.6	855.5	791.8	750.1	725.6	717.4	717.0
17.5°	1194.6	1178.7	1126.4	1009.2	875.9	770.4	706.3	680.5	676.4	680.2	681.2
20°	1224.2	1198.7	1115.0	948.2	787.0	685.7	652.6	663.3	678.8	689.1	691.5
22.5°	1254.9	1215.3	1089.1	869.7	693.2	628.5	642.3	665.7	685.0	698.8	700.1
25°	1289.3	1230.8	1050.6	773.5	618.1	612.6	639.8	664.6	685.3	701.2	703.9
27.5°	1309.0	1231.1	996.5	674.6	583.7	606.4	634.0	657.4	678.1	695.3	698.4
30°	1328.3	1221.8	910.7	594.4	573.7	599.2	624.0	645.7	665.3	682.2	686.0
32.5°	1355.5	1213.2	811.8	548.2	567.8	592.3	612.6	631.9	647.1	654.7	656.7
35°	1389.3	1202.2	706.7	528.2	564.0	586.8	604.7	615.0	595.4	591.3	595.7
37.5°	1436.5	1191.8	601.9	519.6	561.6	584.7	600.6	574.0	549.9	540.3	543.7
40°	1487.5	1186.0	531.0	512.7	562.7	586.8	583.3	544.1	509.3	488.9	488.2
42.5°	1530.9	1177.0	485.5	508.2	565.4	594.7	559.9	517.5	465.8	453.8	454.1
45°	1560.2	1154.3	461.4	503.4	567.8	596.4	548.9	481.0	444.1	436.6	436.2
47.5°	1572.2	1112.9	445.9	495.8	567.5	582.3	526.5	465.8	429.0	426.9	428.3
50°	1564.3	1045.0	430.0	481.0	559.2	567.5	500.6	452.4	418.6	430.0	438.3
52.5°	1535.0	957.2	411.1	460.7	544.4	550.6	487.5	444.1	411.1	426.2	432.8
55°	1527.4	885.9	386.9	434.1	522.3	520.6	473.8	440.0	405.9	400.0	401.1
57.5°	1517.4	816.3	347.0	386.6	466.5	469.3	460.7	435.2	392.5	390.7	392.5
60°	1318.3	625.7	309.4	333.5	383.1	398.0	445.9	426.2	370.7	363.5	363.2
62.5°	861.0	379.0	275.3	290.8	312.2	329.4	406.6	400.4	347.0	342.5	345.6
65°	463.1	270.1	250.5	259.8	271.5	284.6	337.0	356.6	313.5	297.7	298.0
67.5°	236.7	229.8	231.9	238.4	247.4	253.9	271.9	289.1	267.4	253.9	253.6
70°	202.6	208.1	211.2	215.0	220.9	219.8	221.5	224.7	222.9	216.4	216.0
72.5°	172.6	181.2	181.9	182.6	184.7	179.9	176.8	171.6	171.9	173.0	173.3
75°	131.3	139.5	141.6	140.6	142.6	136.4	132.3	127.1	120.9	119.9	120.6
77.5°	85.5	92.0	95.1	94.4	95.4	90.6	88.6	83.0	75.8	73.0	73.0
80°	51.7	55.5	57.9	58.6	59.6	56.2	52.7	47.9	44.8	41.7	41.7
82.5°	31.4	33.8	35.5	35.5	36.5	32.7	30.0	26.5	25.2	22.4	22.4
85°	15.8	17.6	18.3	17.9	17.2	14.1	13.1	11.4	10.7	9.3	9.3
87.5°	3.8	4.8	4.8	3.4	3.4	1.7	1.0	0.3	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)