

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: P630158

Luminaire Tested: GWS-SA1D-727-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630158
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-SA1D-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: 4600.5 lumens
Efficiency: N/A
Efficacy: 103.8 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

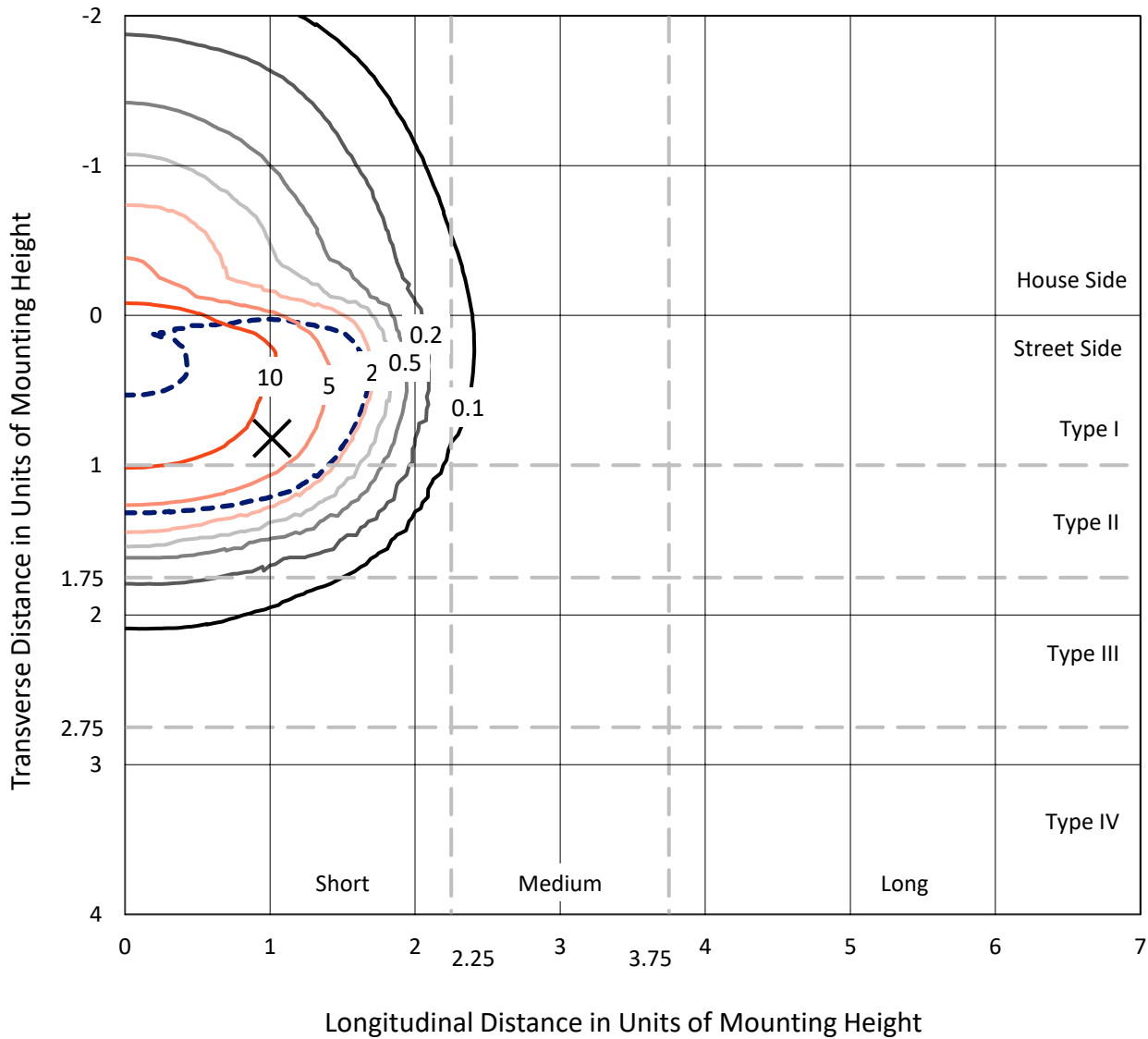
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

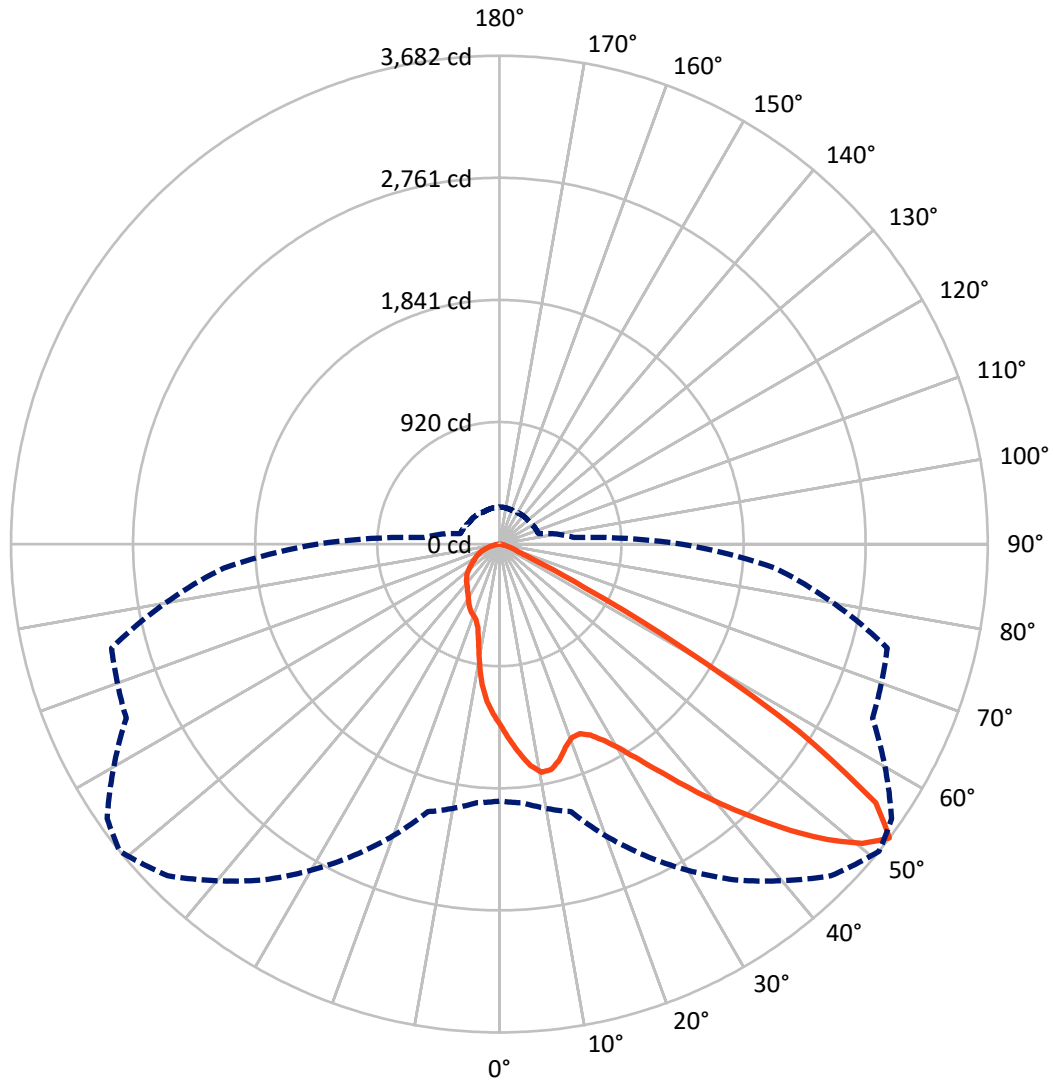
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.7 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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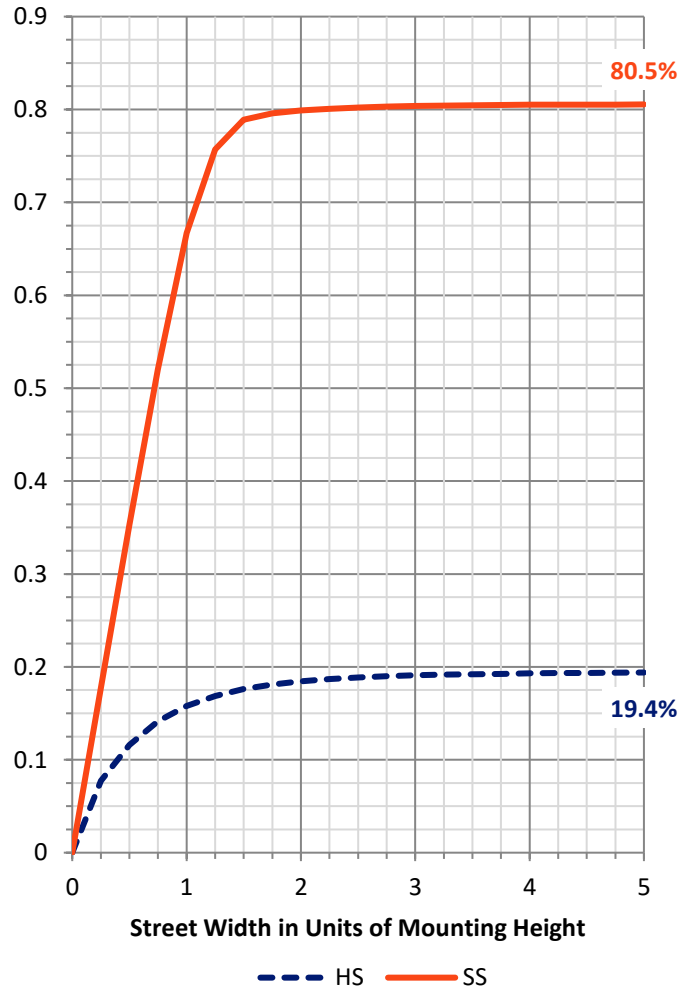
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	896.4	0.0	896.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	3704.1	0.0	3704.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	4600.5	0.0	4600.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	2.8
10°-20°	332.1	7.2
20°-30°	540.0	11.7
30°-40°	855.8	18.6
40°-50°	1290.7	28.1
50°-60°	1116.6	24.3
60°-70°	253.1	5.5
70°-80°	74.6	1.6
80°-90°	9.6	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°	4600.5	100.0
0°-180°	4600.5	100.0

Coefficient of Utilization



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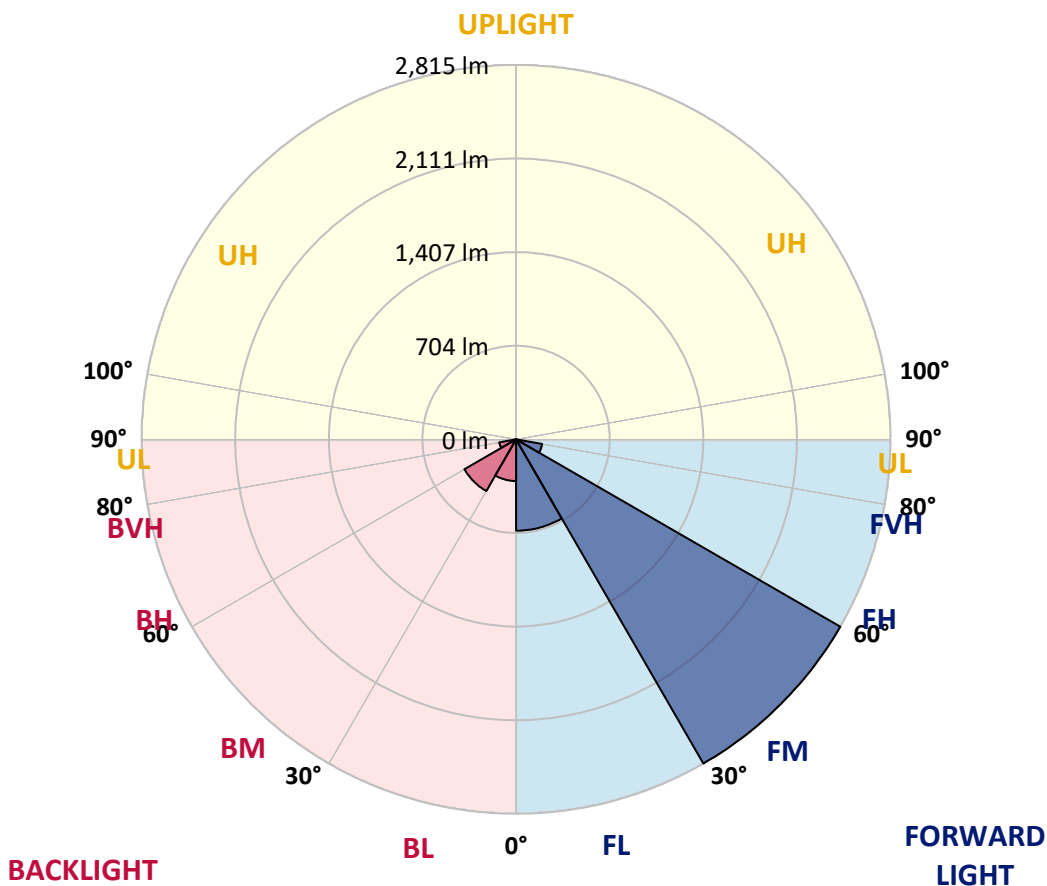
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	686.6	14.9			
FM (30°-60°)	2814.7	61.2			
FH (60°-80°)	199.2	4.3			G0/660
FVH (80°-90°)	3.6	0.1			G0/10
BL (0°-30°)	313.3	6.8	B1/500		
BM (30°-60°)	448.5	9.7	B1/1000		
BH (60°-80°)	128.6	2.8	B1/500		G1/500
BVH (80°-90°)	6.0	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8
2.5°	1526.5	1535.2	1521.8	1516.7	1508.3	1493.8	1477.0	1472.3	1436.3	1412.7	1386.2
5°	1679.9	1684.6	1673.7	1662.8	1642.1	1616.3	1583.9	1577.0	1511.6	1457.4	1401.1
7.5°	1714.1	1712.2	1721.7	1727.9	1725.3	1715.2	1686.4	1673.0	1594.8	1509.0	1425.8
10°	1578.8	1568.7	1603.6	1645.0	1694.8	1752.2	1749.0	1747.9	1679.9	1578.5	1457.4
12.5°	1399.6	1394.5	1422.9	1474.9	1569.0	1696.3	1743.9	1781.0	1756.6	1644.6	1492.7
15°	1297.1	1295.3	1314.5	1352.0	1426.9	1587.6	1689.3	1762.8	1822.4	1715.5	1530.1
17.5°	1278.6	1279.6	1286.2	1307.6	1361.4	1493.8	1611.5	1714.1	1873.7	1793.3	1577.0
20°	1332.7	1340.0	1328.7	1332.0	1361.1	1460.0	1558.5	1665.0	1906.4	1871.5	1627.5
22.5°	1453.0	1450.5	1425.8	1411.2	1411.6	1480.7	1552.7	1642.1	1927.8	1947.5	1673.3
25°	1589.4	1586.5	1557.0	1524.7	1504.3	1537.0	1594.5	1666.4	1947.1	2016.9	1710.1
27.5°	1750.4	1741.3	1708.6	1667.2	1622.1	1636.3	1675.2	1732.2	1976.9	2085.2	1734.4
30°	1906.4	1916.9	1870.0	1820.9	1773.3	1764.6	1787.1	1838.8	2037.6	2165.2	1763.5
32.5°	2113.2	2109.6	2057.6	1993.6	1925.6	1919.1	1936.9	1984.2	2146.7	2275.7	1807.9
35°	2363.7	2364.4	2290.6	2204.1	2107.4	2090.0	2119.8	2165.6	2309.2	2425.5	1878.0
37.5°	2624.0	2622.9	2558.6	2460.4	2328.4	2303.7	2337.9	2372.1	2512.4	2629.4	1987.1
40°	2806.5	2813.8	2783.6	2732.0	2606.9	2546.6	2576.7	2600.4	2733.4	2869.4	2130.7
42.5°	2910.1	2921.0	2927.5	2958.4	2892.6	2828.3	2817.4	2829.8	2930.8	3092.2	2265.5
45°	2932.3	2946.8	2994.4	3108.9	3134.4	3116.2	3080.6	3050.8	3078.0	3250.4	2353.9
47.5°	2834.5	2859.9	2961.7	3162.0	3310.7	3367.8	3328.2	3282.7	3163.1	3291.1	2344.8
50°	2447.0	2476.8	2706.2	3053.7	3335.8	3543.7	3547.4	3480.1	3152.9	3173.7	2230.6
52.5°	1937.3	1957.6	2088.9	2588.7	3089.7	3536.5	3681.9	3609.9	3103.9	3026.8	2087.8
55°	1157.9	1190.6	1313.1	1707.9	2407.0	3134.4	3444.1	3479.0	3079.9	2903.6	1990.4
57.5°	390.8	406.8	523.9	754.3	1418.5	2295.0	2661.1	2802.9	2795.9	2715.2	1800.2
60°	186.1	189.8	213.4	286.1	567.8	1199.3	1575.2	1738.8	1887.8	1902.7	1120.1
62.5°	141.8	144.0	156.0	171.6	228.3	505.3	722.0	847.0	904.8	776.5	407.9
65°	118.5	120.3	129.4	139.2	155.2	218.8	277.0	319.5	287.9	224.3	194.5
67.5°	98.9	100.3	107.2	117.8	128.7	146.5	153.8	158.1	165.8	186.1	178.9
70°	77.4	78.9	86.2	95.2	105.8	110.2	117.1	121.4	136.7	162.9	162.1
72.5°	59.6	61.4	65.4	71.3	80.0	84.3	92.0	97.1	105.8	126.9	135.6
75°	43.6	44.7	48.4	50.2	51.3	50.2	57.8	63.6	75.3	83.2	85.4
77.5°	17.8	20.0	19.3	19.3	22.9	27.6	31.6	35.3	43.3	48.0	48.4
80°	7.3	8.0	9.5	10.5	12.7	16.4	18.9	20.4	24.0	26.9	29.1
82.5°	4.4	4.7	5.5	5.8	7.3	9.5	10.9	12.0	14.9	17.8	18.9
85°	2.2	2.2	2.5	2.9	3.6	4.4	5.1	5.8	7.6	9.5	10.5
87.5°	0.4	0.4	0.4	0.7	1.1	1.5	1.8	2.2	2.5	2.9	3.6
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°	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8
2.5°	1370.5	1350.9	1328.0	1309.8	1288.7	1273.1	1250.9	1237.1	1224.0	1213.1	1205.1
5°	1372.0	1338.9	1291.3	1249.1	1205.5	1164.0	1121.5	1087.0	1056.1	1030.3	1028.1
7.5°	1380.3	1332.7	1258.2	1184.4	1099.3	1017.2	935.0	868.1	817.2	790.7	785.2
10°	1394.5	1332.0	1224.4	1106.6	961.5	829.2	731.8	680.9	651.5	640.9	637.3
12.5°	1409.4	1330.2	1181.1	996.8	795.4	679.4	626.0	619.8	625.3	626.0	625.6
15°	1427.6	1329.1	1126.6	868.1	674.0	610.0	613.6	626.7	639.5	642.4	642.4
17.5°	1449.8	1326.5	1052.4	742.3	598.0	596.6	615.8	633.3	645.3	647.5	647.5
20°	1473.0	1320.0	961.2	639.8	567.1	588.2	608.9	622.4	630.7	633.6	634.0
22.5°	1489.0	1302.5	856.1	563.8	547.8	572.2	587.1	600.9	600.9	593.7	591.5
25°	1492.3	1265.1	742.3	511.9	524.9	547.5	562.8	554.8	539.8	534.0	533.7
27.5°	1480.3	1210.6	630.0	474.8	497.3	519.9	517.3	505.7	499.1	493.3	495.5
30°	1465.8	1145.1	532.6	444.2	465.3	487.5	478.8	474.8	470.1	463.5	465.0
32.5°	1456.0	1072.1	457.7	420.6	443.9	447.5	453.7	453.3	449.0	436.6	435.9
35°	1458.9	998.3	407.5	401.3	426.1	424.6	436.2	434.1	403.9	386.8	385.7
37.5°	1482.1	927.4	378.1	386.1	397.7	406.8	417.0	390.8	380.3	369.4	370.1
40°	1526.5	861.6	362.1	377.7	380.6	394.1	370.4	370.1	365.4	355.5	355.2
42.5°	1576.6	806.0	351.2	373.7	369.7	372.3	347.2	350.1	349.7	343.5	341.7
45°	1607.2	754.7	342.4	358.8	359.9	334.5	326.8	330.1	331.9	328.6	328.3
47.5°	1575.6	695.8	333.4	335.9	345.4	317.4	307.9	308.3	311.5	311.9	310.5
50°	1486.9	630.0	322.5	316.3	310.1	299.6	290.8	289.0	292.3	295.6	296.6
52.5°	1372.3	567.1	304.3	294.8	280.3	280.3	276.3	270.5	274.8	279.2	280.6
55°	1288.4	520.6	278.5	267.9	251.9	257.4	256.7	251.6	257.4	260.7	261.7
57.5°	1116.4	418.4	245.0	241.8	228.3	234.8	236.3	229.8	226.8	227.6	228.7
60°	662.7	270.1	221.0	220.7	208.7	216.3	220.7	214.1	205.4	206.5	207.9
62.5°	297.4	206.5	190.9	189.4	189.0	198.9	203.6	197.4	185.0	186.1	187.6
65°	187.2	178.5	165.8	165.8	171.6	179.9	183.6	178.5	164.3	162.5	164.0
67.5°	173.8	166.1	153.0	150.5	153.4	160.3	160.7	150.9	142.5	141.1	141.1
70°	156.0	150.1	137.4	132.3	131.2	130.9	129.8	127.2	121.8	120.3	121.1
72.5°	129.1	125.1	117.1	111.6	108.7	108.3	104.0	101.8	97.1	96.3	96.0
75°	85.4	86.5	86.5	85.8	83.2	82.2	77.4	75.3	69.8	67.6	67.3
77.5°	50.5	51.6	53.1	53.4	53.1	53.1	48.7	46.2	40.7	37.8	37.1
80°	30.9	31.6	32.4	33.4	32.0	30.9	26.9	24.4	21.8	20.0	19.6
82.5°	20.0	20.7	21.1	21.8	21.1	19.6	16.4	14.9	13.1	11.6	11.3
85°	11.3	11.6	12.4	12.4	11.3	10.2	8.4	7.3	6.2	5.5	5.5
87.5°	4.0	4.0	4.0	4.4	3.6	3.3	2.2	1.5	1.1	1.1	1.1
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)