

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: P632082

Luminaire Tested: GWS-SA2C-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-722-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5134.5 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

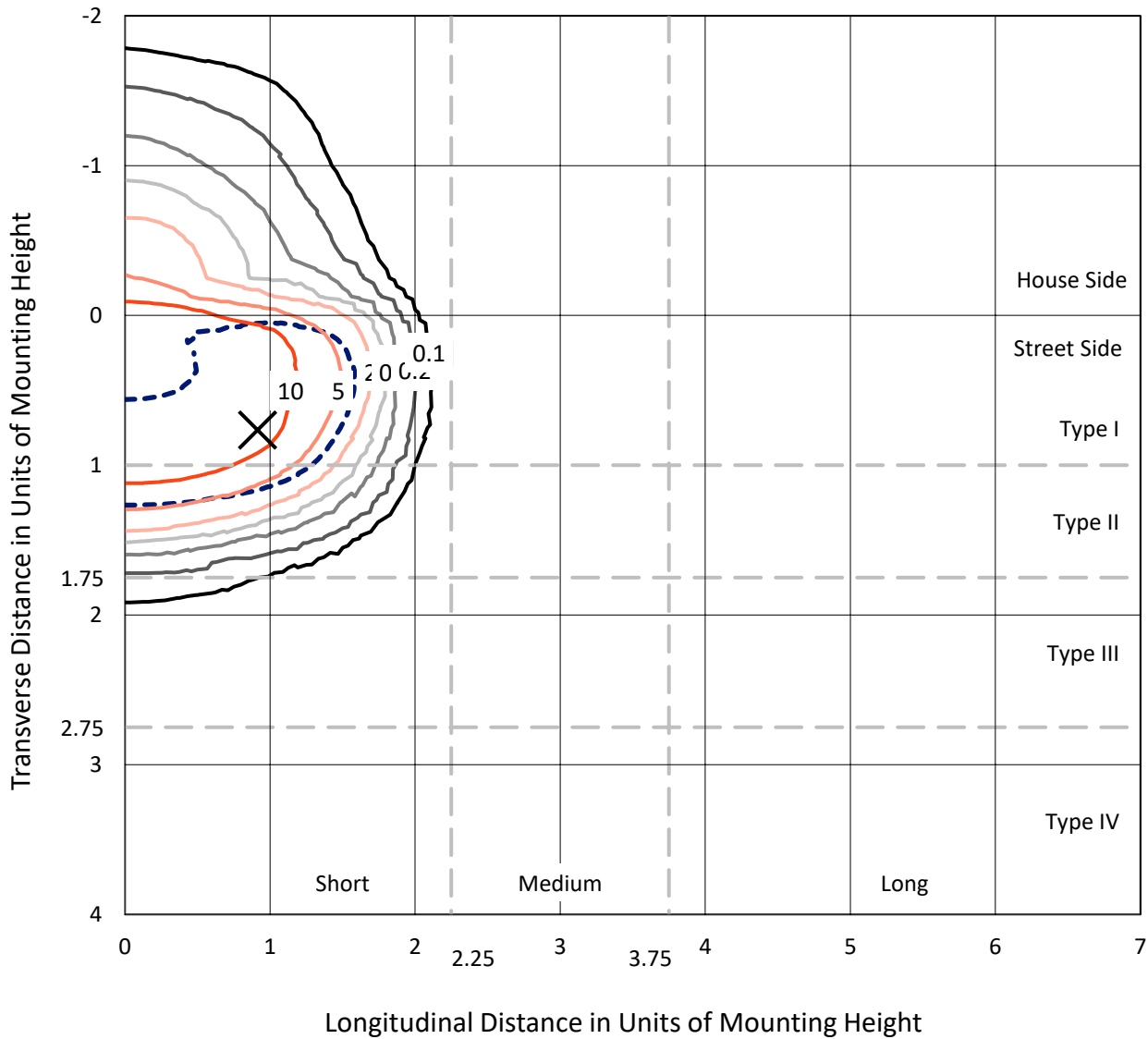
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

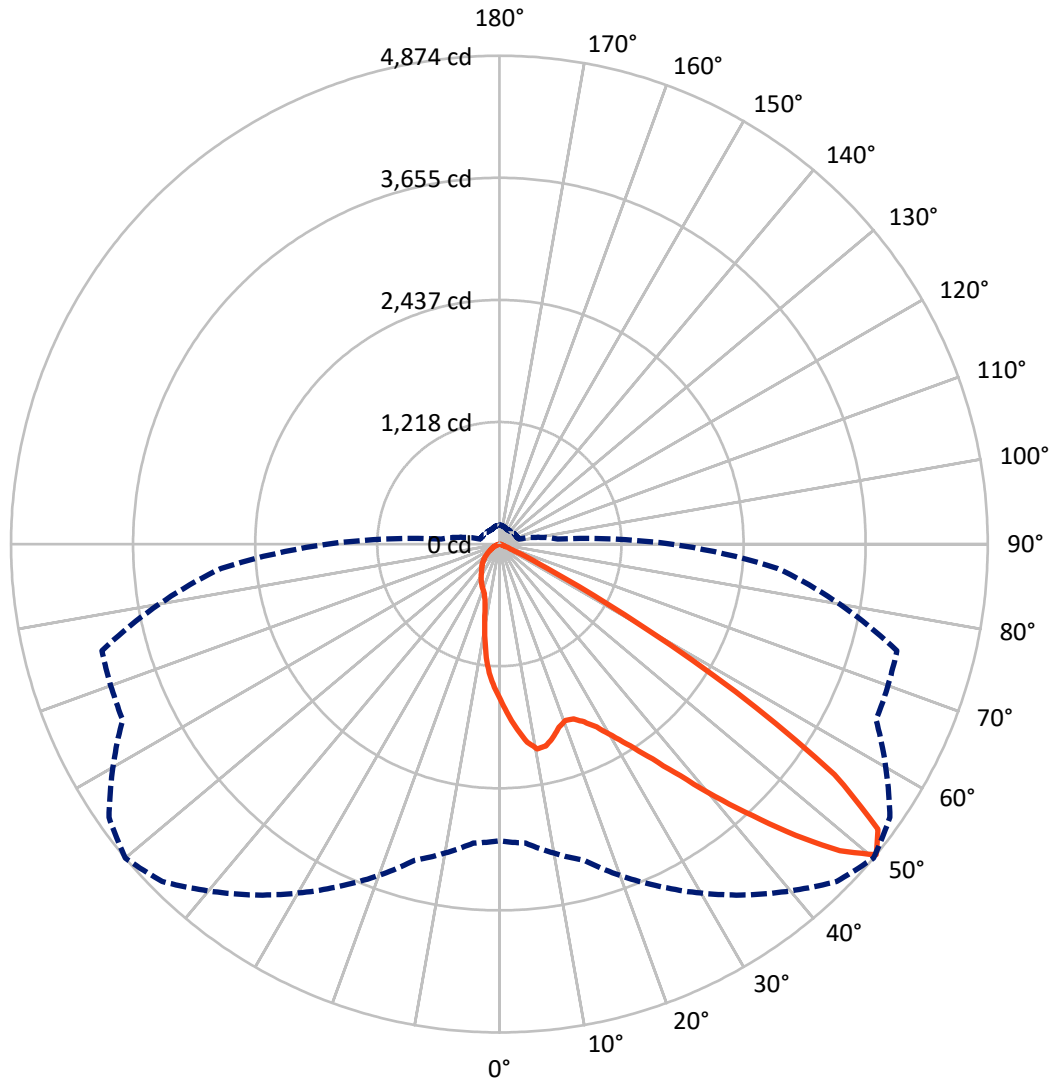
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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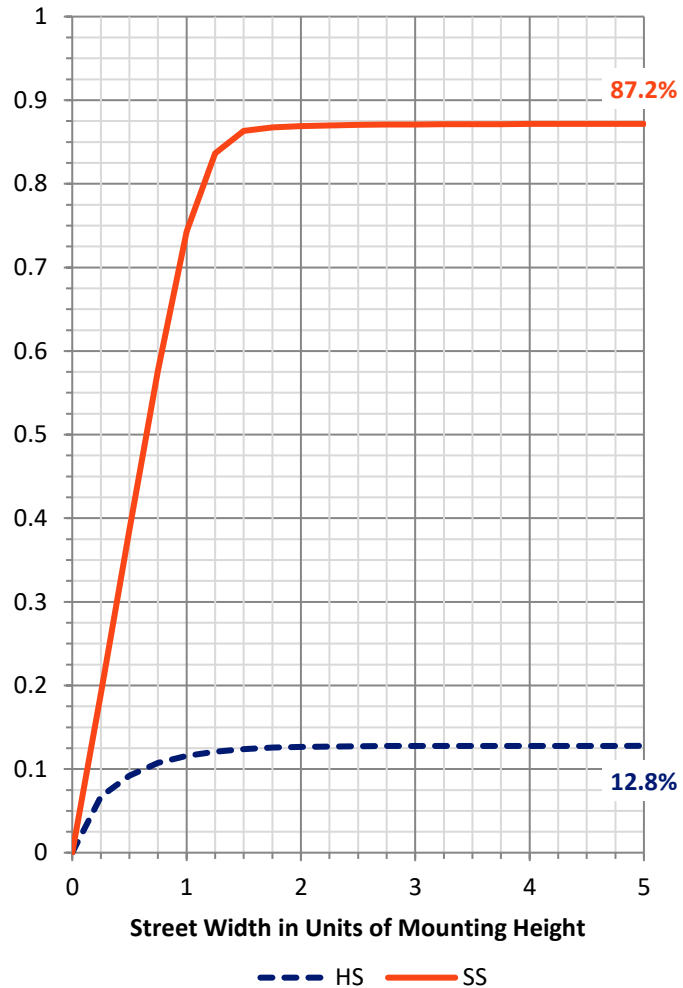
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	659.7	0.0	659.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4474.8	0.0	4474.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	5134.5	0.0	5134.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	2.8
10°-20°	372.3	7.3
20°-30°	614.4	12.0
30°-40°	1014.0	19.7
40°-50°	1604.3	31.2
50°-60°	1214.7	23.7
60°-70°	152.0	3.0
70°-80°	17.2	0.3
80°-90°	1.3	0.0
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°	5134.5	100.0
0°-180°	5134.5	100.0

Coefficient of Utilization



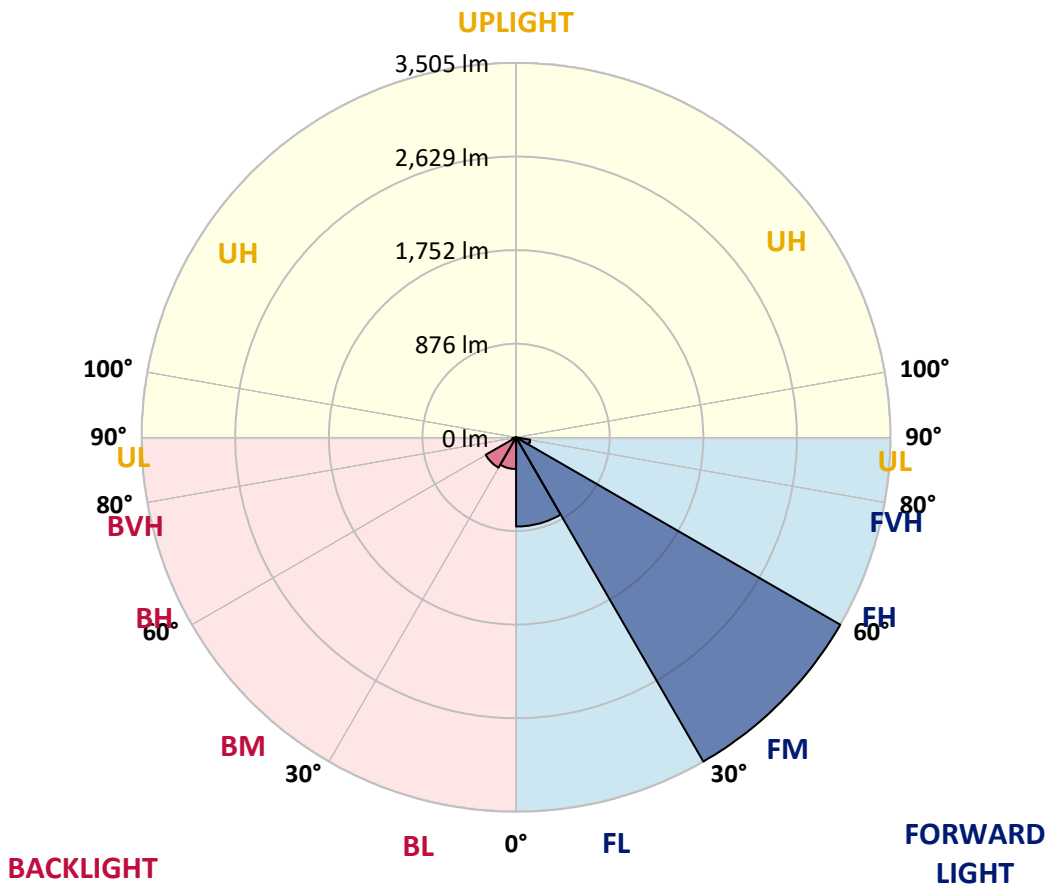
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	834.9	16.3			
FM (30°-60°)	3504.8	68.3			
FH (60°-80°)	134.4	2.6			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	296.1	5.8	B1/500		
BM (30°-60°)	328.1	6.4	B1/1000		
BH (60°-80°)	34.8	0.7	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			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°	50°	55°	65°	75°	85°
0°	1555.5	1555.5	1555.5	1555.5	1555.5	1555.5	1555.5	1555.5	1555.5	1555.5	1555.5
2.5°	1772.5	1786.7	1782.8	1764.2	1744.2	1730.0	1708.0	1701.2	1651.3	1616.6	1580.0
5°	1986.6	1991.0	1986.1	1963.6	1928.4	1894.7	1858.5	1837.5	1754.0	1678.7	1602.0
7.5°	2037.9	2032.5	2041.8	2053.1	2048.2	2033.5	1995.4	1972.4	1872.7	1750.1	1633.7
10°	1877.6	1865.4	1900.1	1958.2	2019.3	2088.2	2078.5	2080.4	1988.5	1840.0	1675.3
12.5°	1665.0	1660.1	1686.0	1753.5	1873.2	2029.6	2067.2	2130.3	2094.6	1937.2	1722.7
15°	1571.7	1574.1	1589.8	1632.3	1718.3	1912.8	2003.2	2117.1	2189.4	2031.5	1775.0
17.5°	1585.8	1594.6	1594.2	1608.3	1660.6	1816.5	1922.1	2075.5	2262.7	2140.0	1835.1
20°	1682.1	1690.9	1677.7	1667.0	1684.6	1792.1	1879.6	2033.5	2312.1	2249.5	1898.6
22.5°	1826.3	1836.6	1805.3	1774.5	1763.2	1832.2	1895.7	2016.4	2349.7	2349.7	1955.3
25°	2000.8	2014.9	1966.6	1911.8	1880.5	1916.7	1964.6	2055.0	2388.3	2439.6	1993.9
27.5°	2195.8	2196.2	2154.7	2093.1	2034.5	2038.9	2067.7	2142.0	2430.8	2536.4	2024.2
30°	2415.2	2416.6	2361.4	2287.6	2213.8	2193.8	2218.2	2274.4	2519.3	2658.1	2066.2
32.5°	2698.6	2705.5	2626.3	2517.8	2422.0	2384.4	2398.6	2457.7	2660.0	2810.5	2129.3
35°	3081.8	3089.1	2972.3	2829.1	2676.6	2619.9	2634.1	2693.7	2863.8	3027.0	2230.0
37.5°	3460.0	3469.8	3351.5	3218.1	3009.0	2915.1	2929.8	2986.5	3169.7	3326.1	2391.2
40°	3721.5	3734.7	3698.0	3608.1	3414.1	3290.9	3308.5	3329.1	3506.5	3683.9	2600.4
42.5°	3859.3	3877.9	3893.5	3939.5	3837.3	3734.2	3704.4	3705.9	3849.0	4048.4	2817.9
45°	3867.6	3885.7	3965.8	4143.2	4220.9	4199.4	4145.2	4108.5	4110.5	4291.3	2953.7
47.5°	3598.8	3632.5	3782.6	4130.0	4422.3	4600.7	4573.3	4486.3	4220.5	4307.4	2939.1
50°	2962.0	2995.3	3268.0	3767.9	4275.7	4761.0	4873.9	4757.1	4148.6	4106.6	2788.1
52.5°	2151.3	2154.7	2331.6	2915.6	3681.4	4465.3	4731.2	4719.9	4039.2	3863.2	2581.8
55°	1021.9	1009.7	1208.6	1645.5	2546.2	3611.5	4059.7	4186.7	3883.7	3687.3	2422.0
57.5°	297.6	303.5	391.9	642.2	1273.6	2308.2	2780.2	3016.8	3187.8	3031.4	1878.6
60°	133.4	133.9	149.1	195.5	424.2	1073.7	1437.3	1730.0	1906.0	1766.2	932.0
62.5°	96.8	97.3	103.1	110.4	144.2	363.6	539.0	718.4	731.6	478.9	236.0
65°	80.6	80.6	81.6	81.6	86.5	130.0	163.7	211.1	177.9	132.0	92.4
67.5°	65.0	65.5	66.5	66.5	65.0	65.0	70.4	77.2	82.6	102.1	85.0
70°	50.8	50.3	50.3	50.8	49.4	42.0	45.4	51.8	56.7	79.7	73.8
72.5°	39.6	40.1	39.6	37.6	34.2	24.9	26.9	33.7	36.2	49.8	49.8
75°	29.8	30.3	28.3	21.5	14.2	7.8	10.3	16.6	21.0	24.4	18.1
77.5°	3.9	3.9	2.9	2.9	2.4	2.9	2.9	3.9	5.9	5.9	4.4
80°	0.5	0.5	0.5	1.0	1.5	2.0	2.0	2.0	2.0	2.4	2.4
82.5°	0.5	0.5	0.5	0.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0
85°	0.0	0.0	0.0	0.5	1.0	1.5	1.5	2.0	2.0	2.0	2.0
87.5°	0.0	0.0	0.0	0.5	1.0	1.5	1.5	1.5	2.0	2.0	2.0
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°	1555.5	1555.5	1555.5	1555.5	1555.5	1555.5	1555.5	1555.5	1555.5	1555.5	1555.5
2.5°	1558.0	1529.6	1495.4	1472.0	1438.7	1416.8	1385.5	1364.5	1346.4	1332.2	1340.0
5°	1558.5	1513.5	1443.6	1384.0	1319.0	1259.4	1195.4	1145.0	1099.6	1079.1	1090.3
7.5°	1568.3	1503.7	1396.7	1290.7	1166.1	1042.9	927.6	833.7	787.3	765.3	772.2
10°	1587.3	1499.3	1344.4	1168.5	966.2	798.1	686.1	622.6	596.7	583.0	585.5
12.5°	1604.9	1496.4	1276.5	1007.7	762.4	619.2	561.0	552.2	557.6	558.1	557.6
15°	1628.9	1491.0	1192.4	842.5	609.9	535.1	536.6	549.3	562.0	565.9	564.9
17.5°	1654.3	1482.7	1083.9	684.2	517.5	510.7	527.8	544.9	557.6	559.6	560.1
20°	1680.7	1465.6	960.3	558.6	474.5	492.1	511.2	523.9	533.2	536.1	537.1
22.5°	1692.9	1429.5	817.6	468.7	445.7	469.2	483.3	499.9	502.9	492.1	494.1
25°	1686.5	1368.4	678.3	408.1	416.9	440.3	461.3	453.0	440.8	433.0	435.4
27.5°	1666.5	1287.3	542.0	363.6	386.1	415.9	418.3	409.0	407.1	400.7	402.7
30°	1645.0	1193.9	435.9	327.9	354.8	386.1	378.7	382.2	382.7	375.3	377.8
32.5°	1631.8	1096.2	347.0	304.0	334.8	340.6	355.3	362.1	362.6	345.5	348.4
35°	1636.2	999.9	293.7	284.4	316.2	314.7	335.3	339.2	310.8	287.4	289.8
37.5°	1671.9	910.9	263.4	269.3	283.9	295.2	310.8	284.9	278.6	267.8	269.3
40°	1738.3	835.2	245.3	260.0	261.9	280.0	256.1	259.5	260.0	253.1	254.6
42.5°	1816.0	772.2	234.6	254.6	249.7	252.7	228.7	235.6	242.9	240.0	240.4
45°	1855.1	710.6	225.3	236.0	237.5	209.7	204.3	211.6	220.9	222.4	222.8
47.5°	1820.4	651.9	215.5	209.2	218.9	191.1	184.7	187.2	197.9	203.8	204.8
50°	1714.4	584.5	200.9	185.2	179.8	171.5	165.7	166.2	178.4	188.6	190.6
52.5°	1565.3	514.1	176.9	156.9	144.7	151.0	152.5	149.5	160.8	171.0	173.0
55°	1420.7	426.2	140.3	127.6	116.3	130.0	133.9	130.0	133.4	140.3	140.7
57.5°	1000.4	240.9	107.5	105.6	96.3	111.4	117.8	111.9	106.0	110.4	111.4
60°	463.8	126.1	82.6	82.6	80.1	95.8	106.5	98.2	87.0	88.9	90.4
62.5°	145.1	79.7	60.6	57.2	65.5	81.6	90.4	82.1	68.9	68.9	70.9
65°	82.1	68.4	47.9	44.0	53.3	65.5	70.9	62.1	50.3	49.4	49.4
67.5°	76.2	65.0	42.5	35.7	37.6	42.0	44.0	38.1	34.7	34.2	34.7
70°	63.0	54.2	34.2	24.4	23.0	22.5	23.5	22.0	21.0	21.5	23.0
72.5°	39.1	32.7	21.5	14.7	12.7	12.2	12.2	12.2	11.7	11.7	11.7
75°	14.2	12.2	9.8	7.3	6.4	5.9	5.9	6.4	5.9	5.4	4.9
77.5°	4.4	3.9	3.9	3.9	3.4	2.9	2.4	2.4	2.0	1.5	1.5
80°	2.4	2.4	2.4	2.4	2.0	2.0	1.5	1.0	0.5	0.5	0.0
82.5°	2.4	2.4	2.4	2.0	2.0	2.0	1.5	1.0	0.5	0.0	0.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.0	0.5	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.0	0.5	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)