

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: P631752

Luminaire Tested: GWS-SA2B-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631752
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-SA2B-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5126.4 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

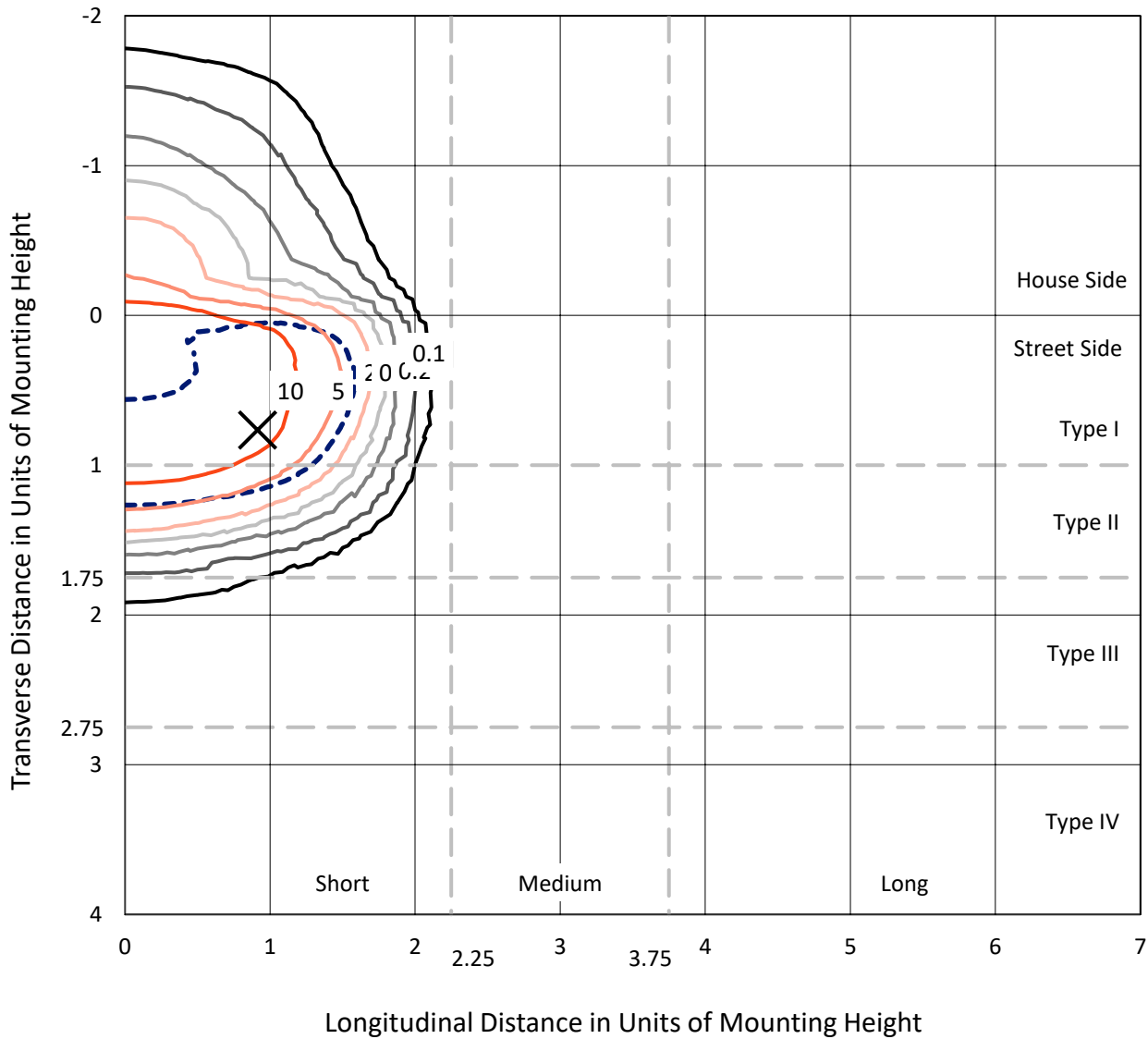
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

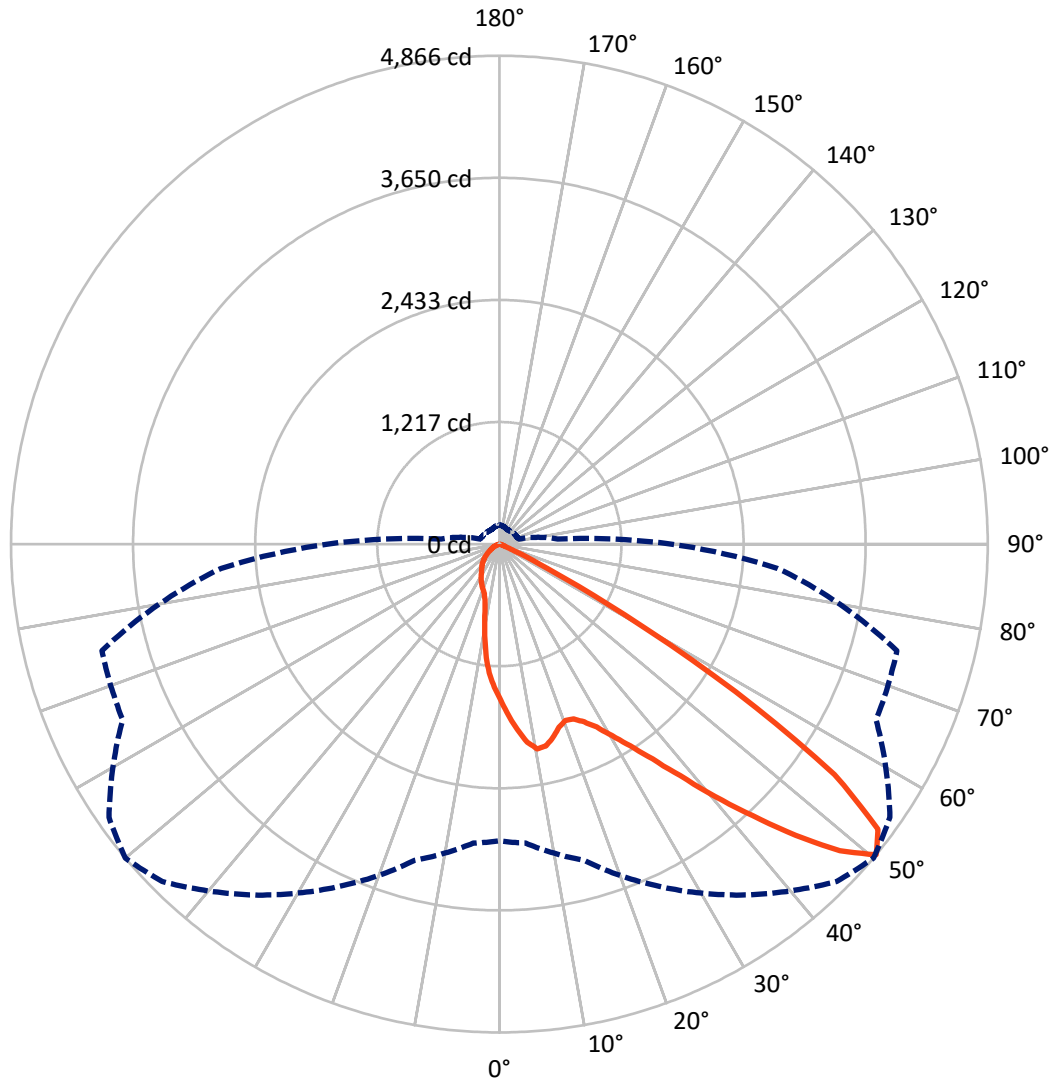
✕ Max cd
 - - - 1/2 Max cd



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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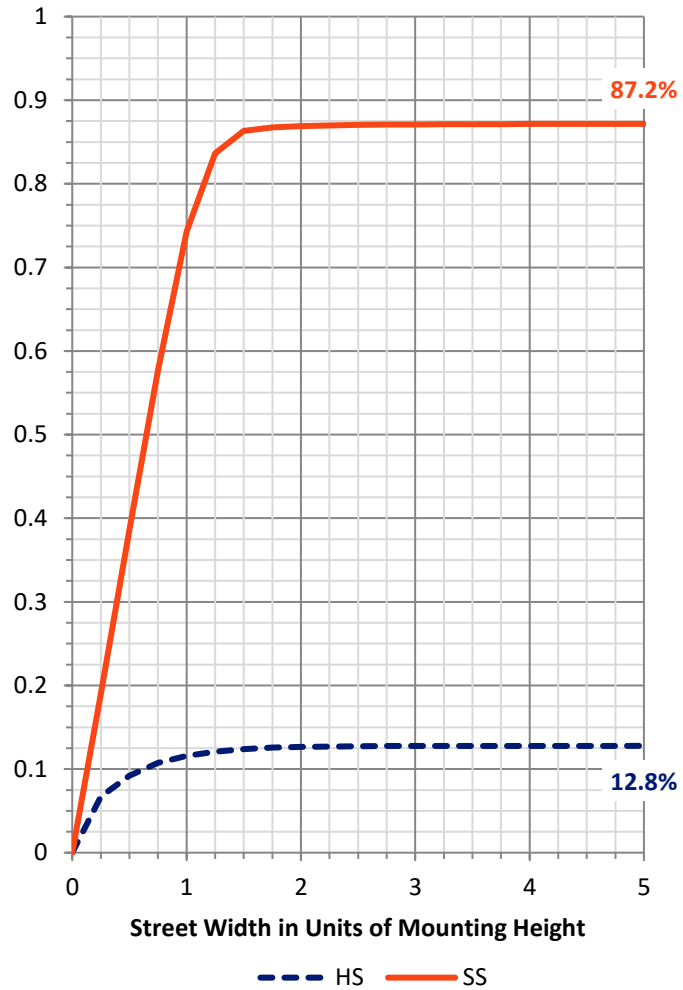
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	658.7	0.0	658.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4467.8	0.0	4467.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	5126.4	0.0	5126.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	2.8
10°-20°	371.7	7.3
20°-30°	613.5	12.0
30°-40°	1012.4	19.7
40°-50°	1601.8	31.2
50°-60°	1212.7	23.7
60°-70°	151.8	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°	5126.4	100.0
0°-180°	5126.4	100.0

Coefficient of Utilization



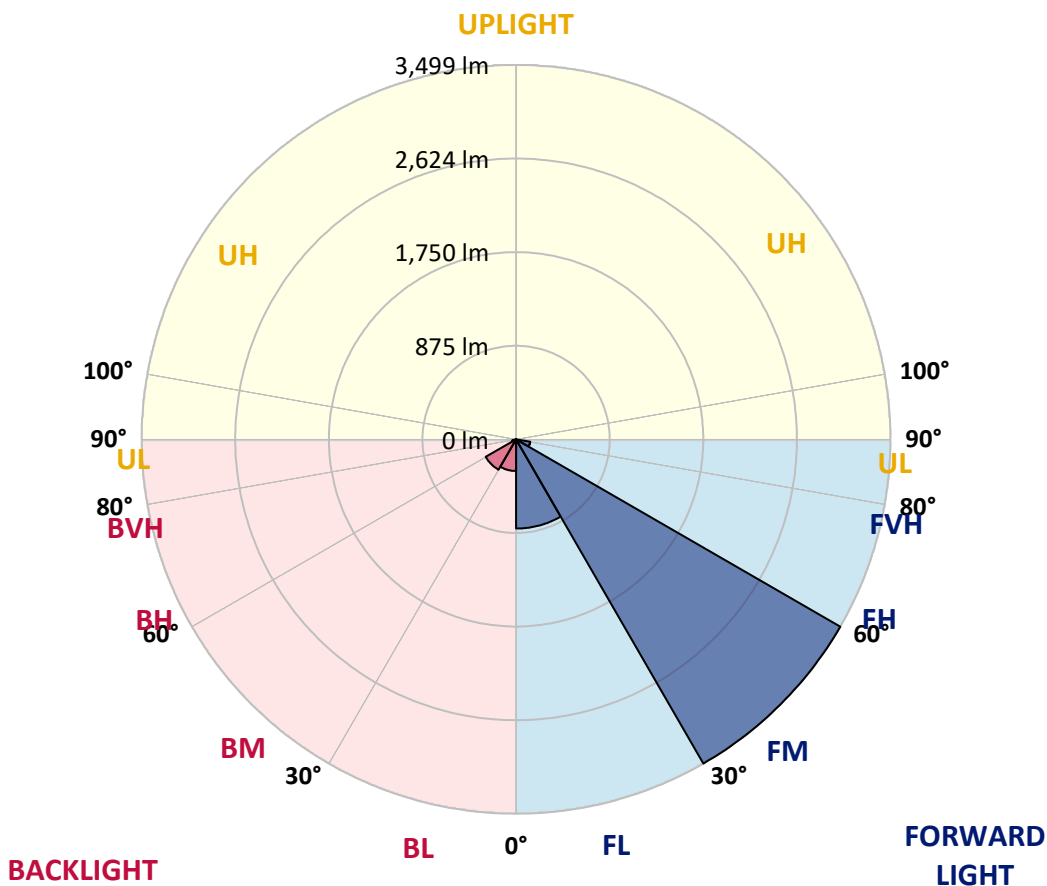
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	833.6	16.3			
FM (30°-60°)	3499.3	68.3			
FH (60°-80°)	134.2	2.6			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	295.6	5.8	B1/500		
BM (30°-60°)	327.6	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°	1553.1	1553.1	1553.1	1553.1	1553.1	1553.1	1553.1	1553.1	1553.1	1553.1	1553.1
2.5°	1769.7	1783.9	1780.0	1761.4	1741.4	1727.3	1705.3	1698.5	1648.7	1614.1	1577.5
5°	1983.5	1987.8	1983.0	1960.5	1925.4	1891.7	1855.6	1834.6	1751.2	1676.1	1599.4
7.5°	2034.7	2029.3	2038.6	2049.8	2044.9	2030.3	1992.2	1969.3	1869.8	1747.3	1631.2
10°	1874.6	1862.4	1897.1	1955.2	2016.1	2084.9	2075.2	2077.1	1985.4	1837.1	1672.6
12.5°	1662.4	1657.5	1683.4	1750.7	1870.3	2026.4	2064.0	2126.9	2091.3	1934.2	1720.0
15°	1569.2	1571.6	1587.3	1629.7	1715.6	1909.8	2000.0	2113.7	2185.9	2028.3	1772.2
17.5°	1583.3	1592.1	1591.6	1605.8	1658.0	1813.7	1919.0	2072.3	2259.1	2136.7	1832.2
20°	1679.5	1688.3	1675.1	1664.3	1681.9	1789.3	1876.6	2030.3	2308.4	2246.0	1895.6
22.5°	1823.4	1833.7	1802.4	1771.7	1760.5	1829.3	1892.7	2013.2	2346.0	2346.0	1952.2
25°	1997.6	2011.8	1963.4	1908.8	1877.6	1913.7	1961.5	2051.8	2384.5	2435.8	1990.8
27.5°	2192.3	2192.8	2151.3	2089.8	2031.3	2035.7	2064.5	2138.6	2427.0	2532.4	2021.0
30°	2411.4	2412.8	2357.7	2284.0	2210.3	2190.3	2214.7	2270.8	2515.3	2653.9	2063.0
32.5°	2694.4	2701.2	2622.2	2513.8	2418.2	2380.6	2394.8	2453.8	2655.8	2806.1	2125.9
35°	3076.9	3084.2	2967.6	2824.7	2672.4	2615.8	2630.0	2689.5	2859.3	3022.3	2226.4
37.5°	3454.6	3464.3	3346.3	3213.0	3004.2	2910.5	2925.2	2981.8	3164.7	3320.9	2387.5
40°	3715.6	3728.8	3692.2	3602.4	3408.7	3285.8	3303.3	3323.8	3500.9	3678.0	2596.3
42.5°	3853.2	3871.8	3887.4	3933.2	3831.3	3728.3	3698.5	3700.0	3843.0	4042.0	2813.4
45°	3861.5	3879.6	3959.6	4136.7	4214.3	4192.8	4138.7	4102.1	4104.0	4284.6	2949.1
47.5°	3593.1	3626.8	3776.6	4123.5	4415.3	4593.4	4566.1	4479.2	4213.8	4300.7	2934.4
50°	2957.4	2990.6	3262.8	3762.0	4268.9	4753.5	4866.2	4749.6	4142.1	4100.1	2783.7
52.5°	2147.9	2151.3	2327.9	2911.0	3675.6	4458.3	4723.7	4712.5	4032.8	3857.1	2577.8
55°	1020.3	1008.1	1206.7	1642.9	2542.1	3605.8	4053.3	4180.1	3877.6	3681.5	2418.2
57.5°	297.2	303.0	391.3	641.1	1271.6	2304.5	2775.9	3012.0	3182.8	3026.7	1875.6
60°	133.2	133.7	148.8	195.2	423.5	1072.0	1435.0	1727.3	1902.9	1763.4	930.5
62.5°	96.6	97.1	103.0	110.3	143.9	363.0	538.2	717.3	730.4	478.2	235.7
65°	80.5	80.5	81.5	81.5	86.4	129.8	163.5	210.8	177.6	131.7	92.2
67.5°	64.9	65.4	66.4	66.4	64.9	64.9	70.3	77.1	82.5	102.0	84.9
70°	50.7	50.3	50.3	50.7	49.3	42.0	45.4	51.7	56.6	79.5	73.7
72.5°	39.5	40.0	39.5	37.6	34.2	24.9	26.8	33.7	36.1	49.8	49.8
75°	29.8	30.3	28.3	21.5	14.2	7.8	10.2	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°	1553.1	1553.1	1553.1	1553.1	1553.1	1553.1	1553.1	1553.1	1553.1	1553.1	1553.1
2.5°	1555.5	1527.2	1493.1	1469.7	1436.5	1414.5	1383.3	1362.3	1344.3	1330.1	1337.9
5°	1556.0	1511.1	1441.4	1381.8	1316.9	1257.4	1193.5	1143.2	1097.9	1077.4	1088.6
7.5°	1565.8	1501.4	1394.5	1288.6	1164.2	1041.3	926.1	832.4	786.1	764.1	770.9
10°	1584.8	1497.0	1342.3	1166.7	964.6	796.8	685.1	621.6	595.8	582.1	584.5
12.5°	1602.4	1494.1	1274.5	1006.1	761.2	618.2	560.1	551.4	556.7	557.2	556.7
15°	1626.3	1488.7	1190.6	841.2	608.9	534.3	535.8	548.4	561.1	565.0	564.1
17.5°	1651.7	1480.4	1082.2	683.1	516.7	509.9	527.0	544.0	556.7	558.7	559.2
20°	1678.0	1463.3	958.8	557.7	473.8	491.4	510.4	523.1	532.3	535.3	536.2
22.5°	1690.2	1427.2	816.3	467.9	445.0	468.4	482.6	499.2	502.1	491.4	493.3
25°	1683.9	1366.2	677.3	407.4	416.2	439.6	460.6	452.3	440.1	432.3	434.7
27.5°	1663.9	1285.2	541.1	363.0	385.5	415.2	417.7	408.4	406.4	400.1	402.1
30°	1642.4	1192.0	435.2	327.4	354.2	385.5	378.1	381.6	382.1	374.7	377.2
32.5°	1629.2	1094.4	346.4	303.5	334.2	340.1	354.7	361.6	362.0	345.0	347.9
35°	1633.6	998.3	293.2	284.0	315.7	314.2	334.7	338.6	310.3	286.9	289.3
37.5°	1669.2	909.5	263.0	268.9	283.5	294.7	310.3	284.5	278.1	267.4	268.9
40°	1735.6	833.9	244.9	259.6	261.5	279.6	255.7	259.1	259.6	252.8	254.2
42.5°	1813.2	770.9	234.2	254.2	249.3	252.3	228.4	235.2	242.5	239.6	240.1
45°	1852.2	709.5	224.9	235.7	237.1	209.3	204.0	211.3	220.5	222.0	222.5
47.5°	1817.6	650.9	215.2	208.8	218.6	190.8	184.4	186.9	197.6	203.5	204.4
50°	1711.7	583.6	200.5	184.9	179.6	171.3	165.4	165.9	178.1	188.3	190.3
52.5°	1562.9	513.3	176.6	156.6	144.4	150.8	152.2	149.3	160.5	170.8	172.7
55°	1418.4	425.5	140.0	127.4	116.1	129.8	133.7	129.8	133.2	140.0	140.5
57.5°	998.8	240.6	107.3	105.4	96.1	111.2	117.6	111.7	105.9	110.3	111.2
60°	463.0	125.9	82.5	82.5	80.0	95.6	106.4	98.1	86.9	88.8	90.3
62.5°	144.9	79.5	60.5	57.1	65.4	81.5	90.3	82.0	68.8	68.8	70.8
65°	82.0	68.3	47.8	43.9	53.2	65.4	70.8	62.0	50.3	49.3	49.3
67.5°	76.1	64.9	42.5	35.6	37.6	42.0	43.9	38.1	34.6	34.2	34.6
70°	62.9	54.2	34.2	24.4	22.9	22.4	23.4	22.0	21.0	21.5	22.9
72.5°	39.0	32.7	21.5	14.6	12.7	12.2	12.2	12.2	11.7	11.7	11.7
75°	14.2	12.2	9.8	7.3	6.3	5.9	5.9	6.3	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)