

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: P631532

Luminaire Tested: GWS-SA1F-830-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631532
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-SA1F-830-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5040.5 lumens
Efficiency: N/A
Efficacy: 75.0 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

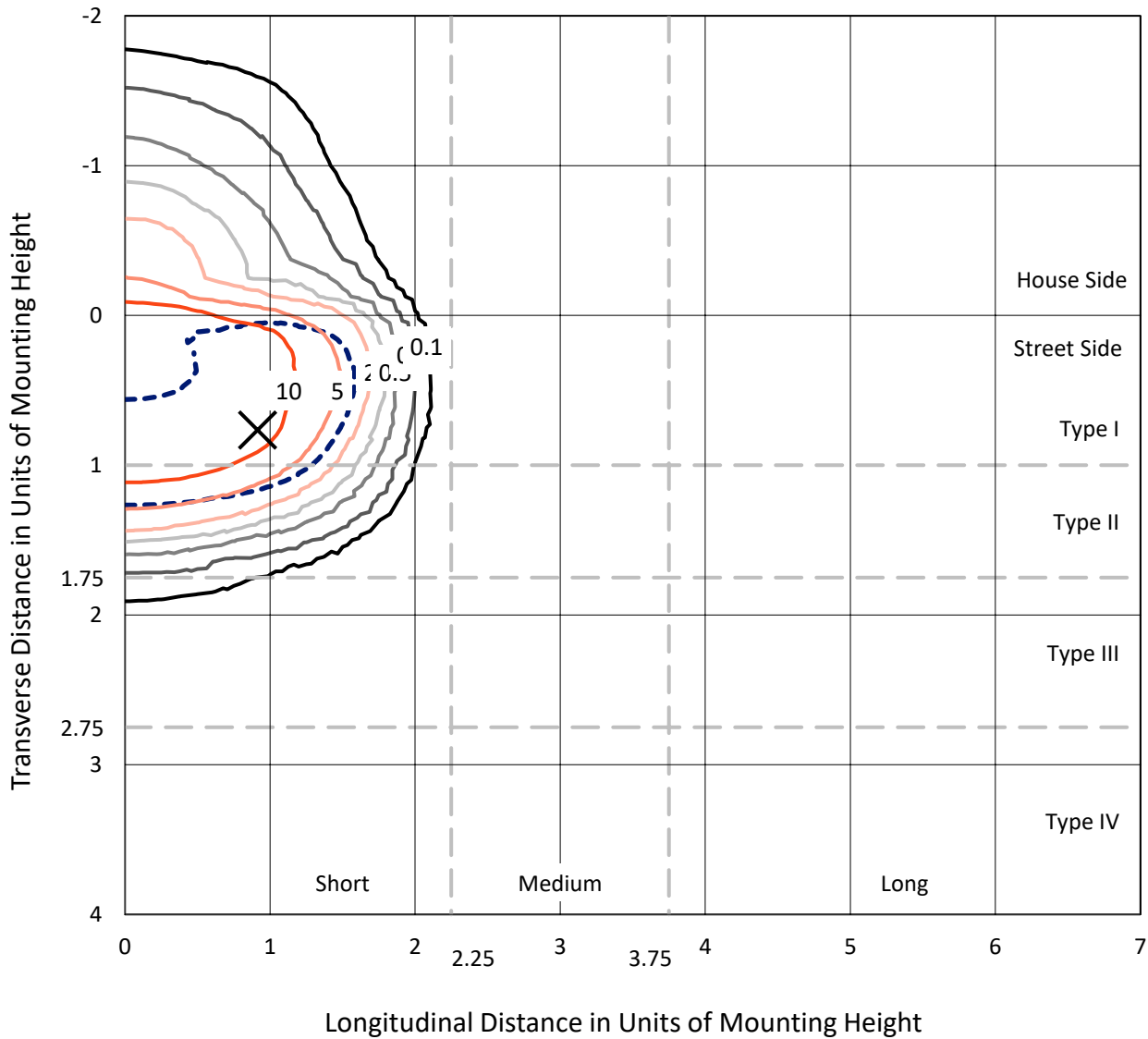
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

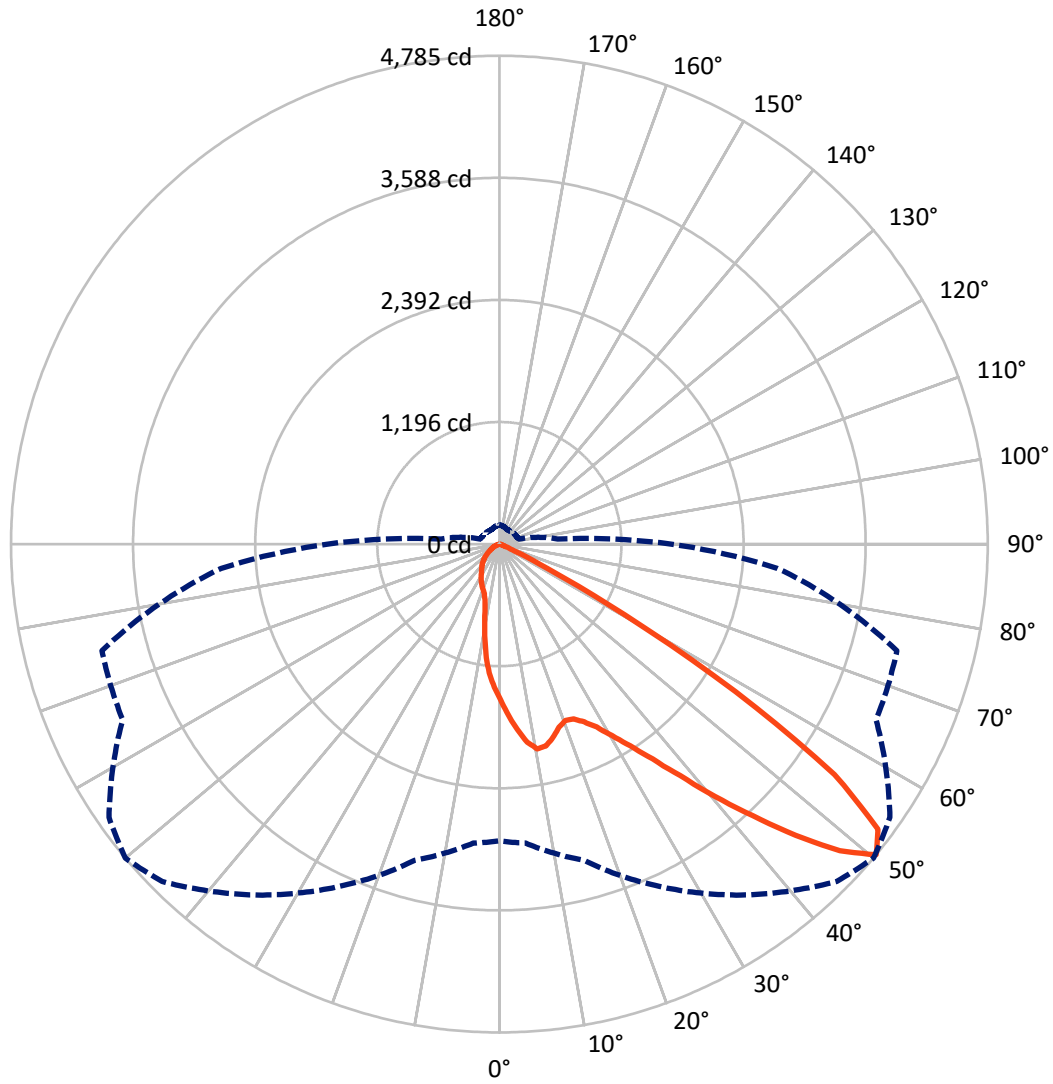
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.6 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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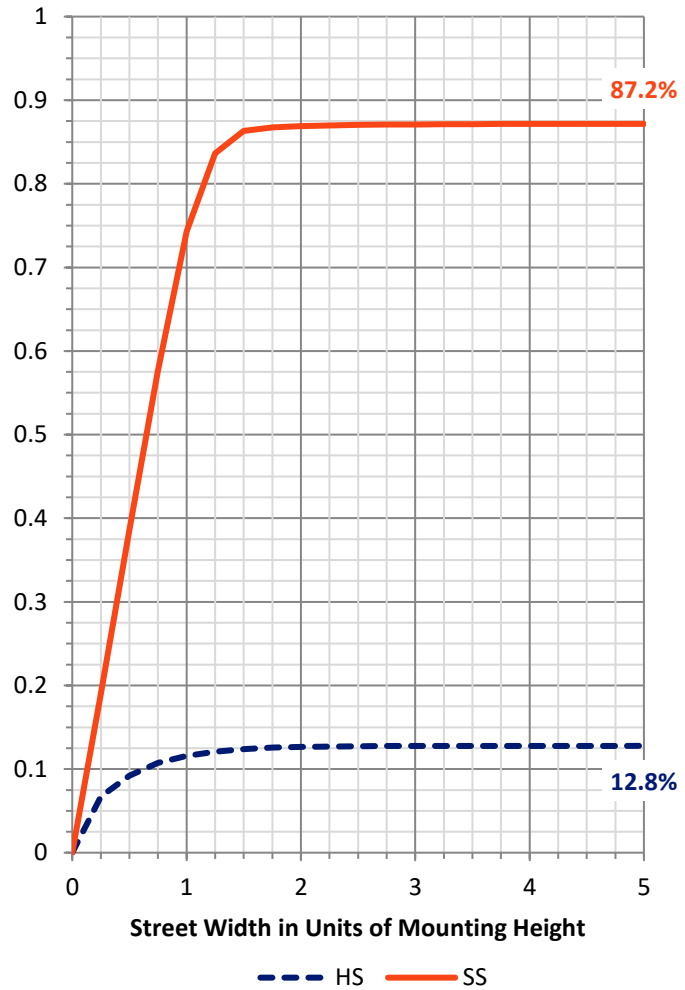
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	647.6	0.0	647.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4392.9	0.0	4392.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	5040.5	0.0	5040.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	2.8
10°-20°	365.5	7.3
20°-30°	603.2	12.0
30°-40°	995.4	19.7
40°-50°	1574.9	31.2
50°-60°	1192.4	23.7
60°-70°	149.2	3.0
70°-80°	16.9	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°	5040.5	100.0
0°-180°	5040.5	100.0

Coefficient of Utilization



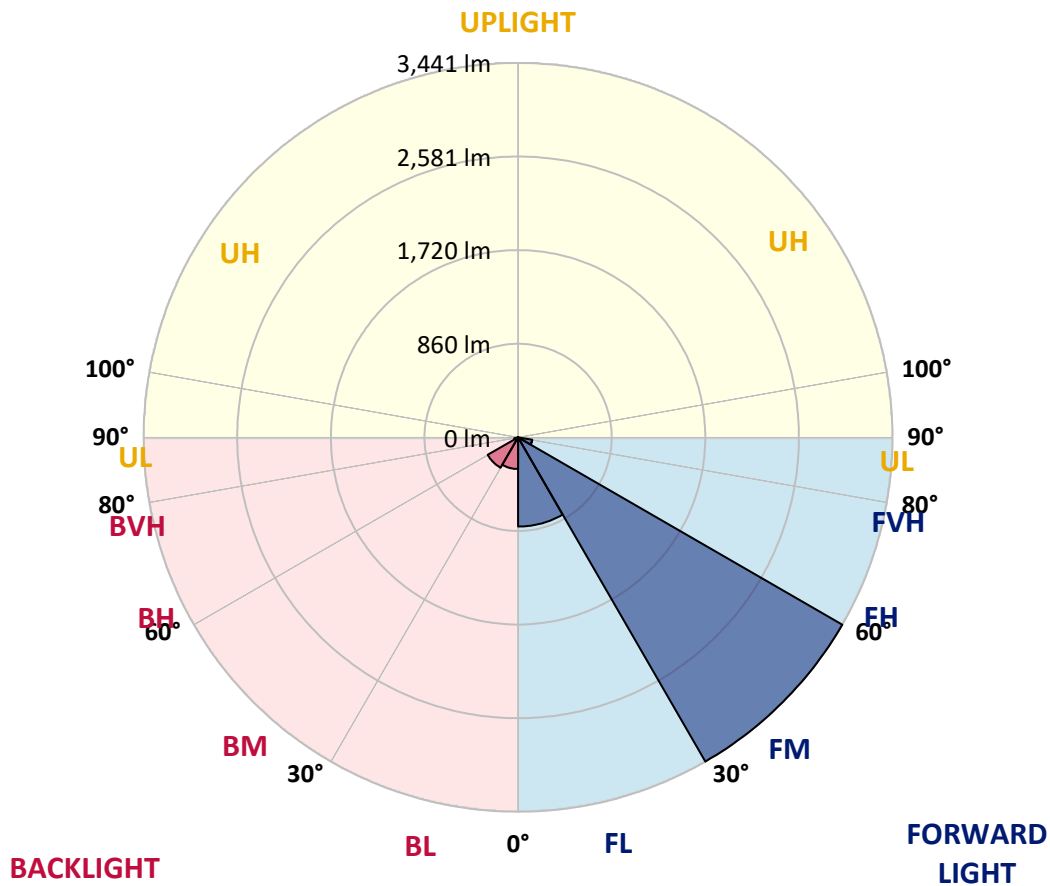
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	819.7	16.3			
FM (30°-60°)	3440.7	68.3			
FH (60°-80°)	131.9	2.6			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	290.7	5.8	B1/500		
BM (30°-60°)	322.1	6.4	B1/1000		
BH (60°-80°)	34.2	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°	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1
2.5°	1740.1	1754.0	1750.2	1731.9	1712.3	1698.3	1676.8	1670.0	1621.1	1587.0	1551.1
5°	1950.2	1954.5	1949.7	1927.7	1893.1	1860.0	1824.5	1803.9	1721.9	1648.0	1572.6
7.5°	2000.6	1995.3	2004.4	2015.5	2010.7	1996.3	1958.9	1936.3	1838.4	1718.0	1603.8
10°	1843.2	1831.2	1865.3	1922.4	1982.4	2050.0	2040.4	2042.3	1952.1	1806.3	1644.6
12.5°	1634.5	1629.7	1655.2	1721.4	1838.9	1992.4	2029.4	2091.3	2056.2	1901.8	1691.1
15°	1542.9	1545.3	1560.7	1602.4	1686.8	1877.8	1966.5	2078.3	2149.3	1994.4	1742.5
17.5°	1556.8	1565.5	1565.0	1578.9	1630.2	1783.3	1886.9	2037.5	2221.3	2100.9	1801.5
20°	1651.3	1660.0	1647.0	1636.5	1653.7	1759.3	1845.2	1996.3	2269.7	2208.3	1863.9
22.5°	1792.9	1802.9	1772.2	1742.0	1731.0	1798.6	1861.0	1979.5	2306.7	2306.7	1919.5
25°	1964.1	1978.0	1930.5	1876.8	1846.1	1881.6	1928.6	2017.4	2344.6	2395.0	1957.4
27.5°	2155.6	2156.0	2115.3	2054.8	1997.2	2001.6	2029.9	2102.8	2386.3	2489.9	1987.2
30°	2371.0	2372.4	2318.2	2245.7	2173.3	2153.6	2177.6	2232.8	2473.2	2609.4	2028.4
32.5°	2649.2	2655.9	2578.2	2471.7	2377.7	2340.7	2354.7	2412.7	2611.3	2759.1	2090.3
35°	3025.4	3032.6	2917.9	2777.3	2627.6	2572.0	2585.9	2644.4	2811.4	2971.6	2189.1
37.5°	3396.7	3406.3	3290.2	3159.2	2953.9	2861.8	2876.2	2931.8	3111.7	3265.2	2347.5
40°	3653.4	3666.3	3630.3	3542.1	3351.6	3230.7	3248.0	3268.1	3442.3	3616.4	2552.8
42.5°	3788.7	3806.9	3822.2	3867.3	3767.1	3665.8	3636.6	3638.0	3778.6	3974.3	2766.3
45°	3796.8	3814.6	3893.2	4067.4	4143.7	4122.6	4069.3	4033.3	4035.2	4212.8	2899.7
47.5°	3532.9	3566.0	3713.3	4054.4	4341.3	4516.4	4489.6	4404.2	4143.2	4228.6	2885.3
50°	2907.8	2940.4	3208.1	3698.9	4197.4	4673.8	4784.6	4670.0	4072.7	4031.4	2737.0
52.5°	2111.9	2115.3	2288.9	2862.2	3614.0	4383.6	4644.5	4633.5	3965.2	3792.5	2534.6
55°	1003.2	991.2	1186.4	1615.3	2499.5	3545.4	3985.4	4110.1	3812.6	3619.8	2377.7
57.5°	292.2	297.9	384.8	630.4	1250.3	2265.9	2729.3	2961.5	3129.5	2975.9	1844.2
60°	131.0	131.5	146.3	191.9	416.4	1054.0	1411.0	1698.3	1871.1	1733.8	914.9
62.5°	95.0	95.5	101.2	108.4	141.5	356.9	529.2	705.2	718.2	470.2	231.7
65°	79.2	79.2	80.1	80.1	84.9	127.6	160.7	207.3	174.6	129.5	90.7
67.5°	63.8	64.3	65.2	65.2	63.8	63.8	69.1	75.8	81.1	100.3	83.5
70°	49.9	49.4	49.4	49.9	48.5	41.3	44.6	50.9	55.7	78.2	72.4
72.5°	38.9	39.3	38.9	36.9	33.6	24.5	26.4	33.1	35.5	48.9	48.9
75°	29.3	29.7	27.8	21.1	13.9	7.7	10.1	16.3	20.6	24.0	17.8
77.5°	3.8	3.8	2.9	2.9	2.4	2.9	2.9	3.8	5.8	5.8	4.3
80°	0.5	0.5	0.5	1.0	1.4	1.9	1.9	1.9	1.9	2.4	2.4
82.5°	0.5	0.5	0.5	0.5	1.4	1.4	1.9	1.9	1.9	1.9	1.9
85°	0.0	0.0	0.0	0.5	1.0	1.4	1.4	1.9	1.9	1.9	1.9
87.5°	0.0	0.0	0.0	0.5	1.0	1.4	1.4	1.4	1.9	1.9	1.9
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°	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1
2.5°	1529.5	1501.6	1468.1	1445.0	1412.4	1390.8	1360.1	1339.5	1321.7	1307.8	1315.5
5°	1529.9	1485.8	1417.2	1358.7	1294.9	1236.3	1173.5	1124.1	1079.5	1059.3	1070.3
7.5°	1539.5	1476.2	1371.1	1267.0	1144.7	1023.8	910.6	818.5	772.9	751.3	758.0
10°	1558.3	1471.9	1319.8	1147.1	948.5	783.4	673.6	611.2	585.8	572.4	574.8
12.5°	1575.5	1469.0	1253.1	989.3	748.4	607.9	550.8	542.1	547.4	547.9	547.4
15°	1599.0	1463.7	1170.6	827.1	598.7	525.3	526.8	539.2	551.7	555.6	554.6
17.5°	1624.0	1455.6	1064.1	671.7	508.1	501.3	518.1	534.9	547.4	549.3	549.8
20°	1649.9	1438.8	942.7	548.4	465.8	483.1	501.8	514.3	523.4	526.3	527.3
22.5°	1661.9	1403.3	802.6	460.1	437.5	460.6	474.5	490.8	493.7	483.1	485.0
25°	1655.6	1343.3	665.9	400.6	409.2	432.3	452.9	444.7	432.7	425.1	427.5
27.5°	1636.0	1263.7	532.1	356.9	379.0	408.3	410.7	401.6	399.6	393.4	395.3
30°	1614.9	1172.0	427.9	321.9	348.3	379.0	371.8	375.2	375.7	368.5	370.9
32.5°	1601.9	1076.1	340.6	298.4	328.6	334.4	348.8	355.5	356.0	339.2	342.1
35°	1606.2	981.6	288.3	279.2	310.4	309.0	329.1	333.0	305.1	282.1	284.5
37.5°	1641.3	894.3	258.6	264.3	278.7	289.8	305.1	279.7	273.5	262.9	264.3
40°	1706.5	819.9	240.8	255.2	257.2	274.9	251.4	254.8	255.2	248.5	250.0
42.5°	1782.8	758.0	230.3	250.0	245.2	248.0	224.5	231.2	238.4	235.6	236.0
45°	1821.2	697.6	221.2	231.7	233.2	205.8	200.5	207.7	216.9	218.3	218.8
47.5°	1787.1	640.0	211.6	205.3	214.9	187.6	181.3	183.7	194.3	200.1	201.0
50°	1683.0	573.8	197.2	181.8	176.6	168.4	162.6	163.1	175.1	185.2	187.1
52.5°	1536.7	504.7	173.7	154.0	142.0	148.2	149.7	146.8	157.8	167.9	169.8
55°	1394.7	418.3	137.7	125.2	114.2	127.6	131.5	127.6	131.0	137.7	138.2
57.5°	982.1	236.5	105.5	103.6	94.5	109.4	115.6	109.9	104.1	108.4	109.4
60°	455.3	123.8	81.1	81.1	78.7	94.0	104.6	96.4	85.4	87.3	88.8
62.5°	142.5	78.2	59.5	56.1	64.3	80.1	88.8	80.6	67.6	67.6	69.6
65°	80.6	67.2	47.0	43.2	52.3	64.3	69.6	60.9	49.4	48.5	48.5
67.5°	74.8	63.8	41.7	35.0	36.9	41.3	43.2	37.4	34.1	33.6	34.1
70°	61.9	53.3	33.6	24.0	22.5	22.1	23.0	21.6	20.6	21.1	22.5
72.5°	38.4	32.1	21.1	14.4	12.5	12.0	12.0	12.0	11.5	11.5	11.5
75°	13.9	12.0	9.6	7.2	6.2	5.8	5.8	6.2	5.8	5.3	4.8
77.5°	4.3	3.8	3.8	3.8	3.4	2.9	2.4	2.4	1.9	1.4	1.4
80°	2.4	2.4	2.4	2.4	1.9	1.9	1.4	1.0	0.5	0.5	0.0
82.5°	2.4	2.4	2.4	1.9	1.9	1.9	1.4	1.0	0.5	0.0	0.0
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.4	1.0	0.5	0.0	0.0
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.4	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)