

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: P630652

Luminaire Tested: GWS-SA1E-727-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630652
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-SA1E-727-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) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4772.8 lumens
Efficiency: N/A
Efficacy: 81.7 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

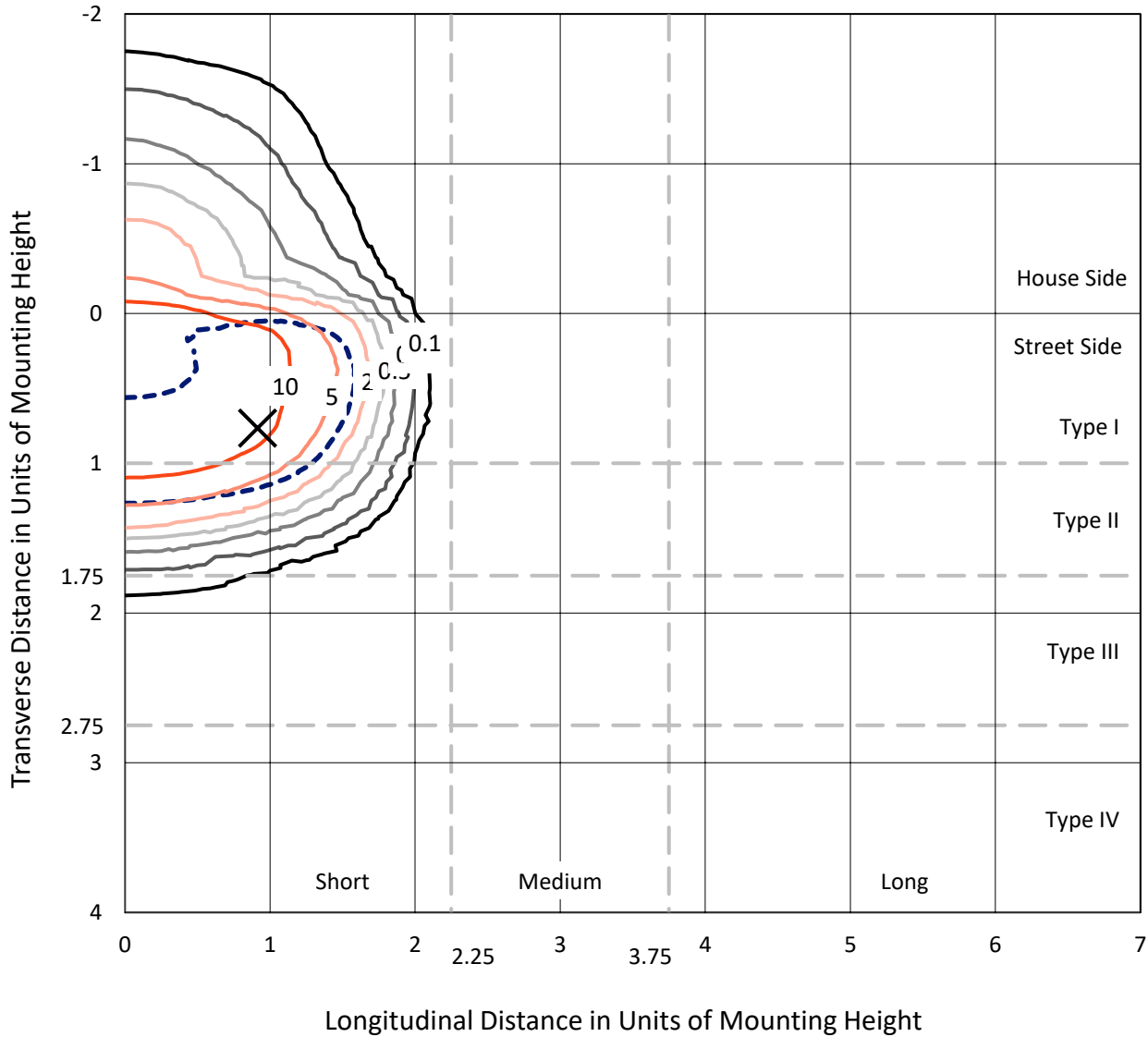
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

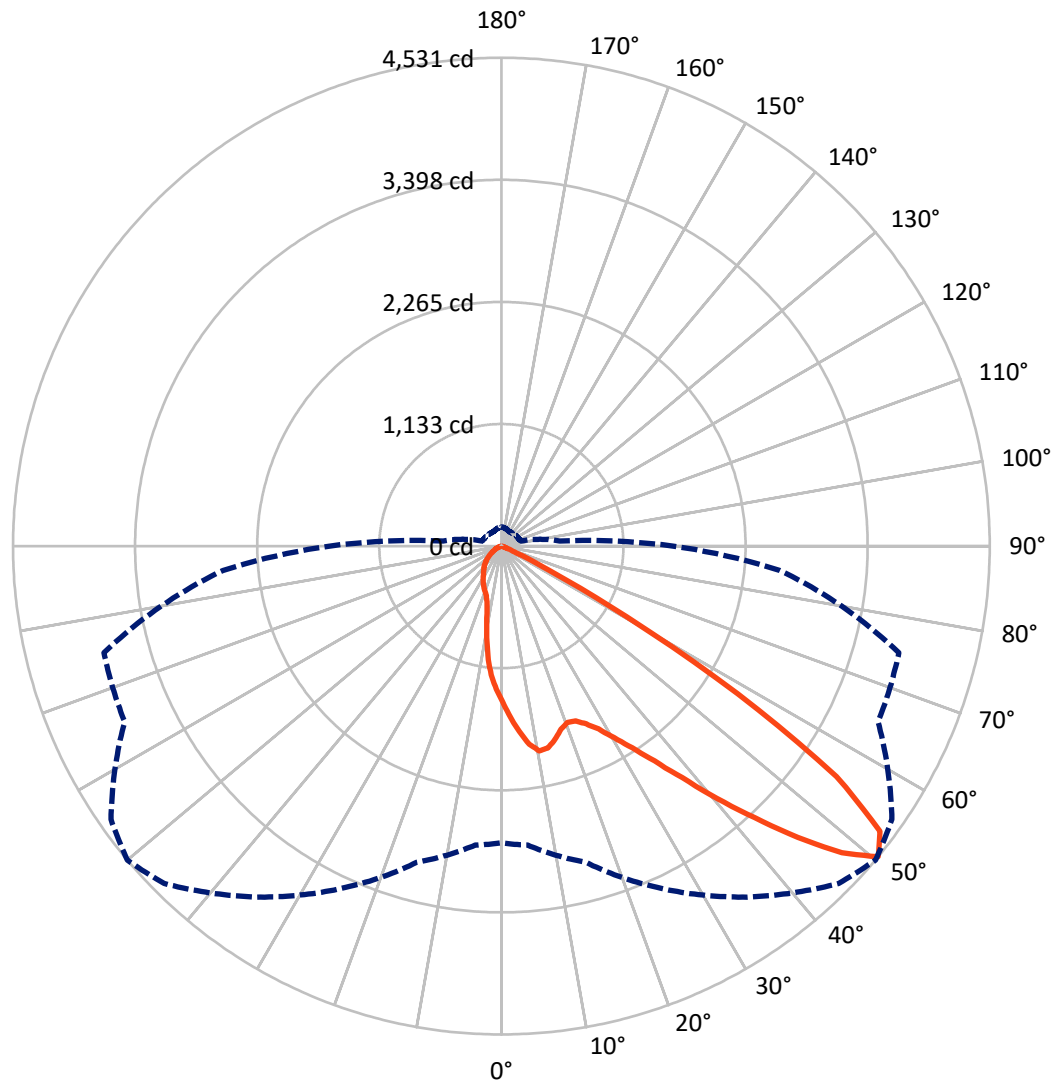
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 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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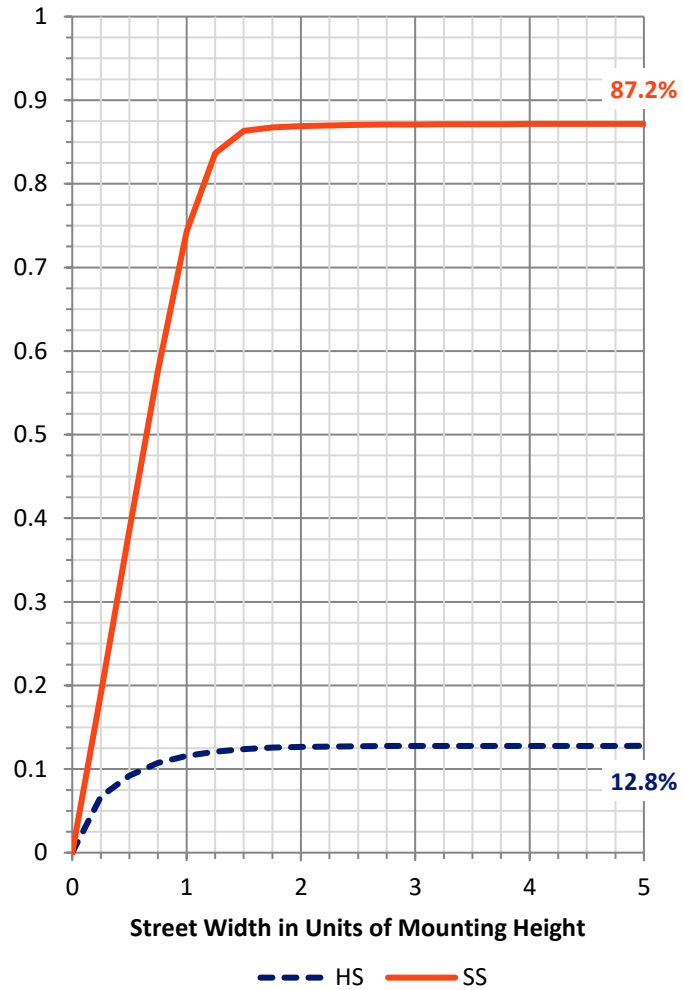
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	613.2	0.0	613.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4159.6	0.0	4159.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	4772.8	0.0	4772.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	2.8
10°-20°	346.1	7.3
20°-30°	571.2	12.0
30°-40°	942.5	19.7
40°-50°	1491.3	31.2
50°-60°	1129.1	23.7
60°-70°	141.3	3.0
70°-80°	16.0	0.3
80°-90°	1.2	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°	4772.8	100.0
0°-180°	4772.8	100.0

Coefficient of Utilization



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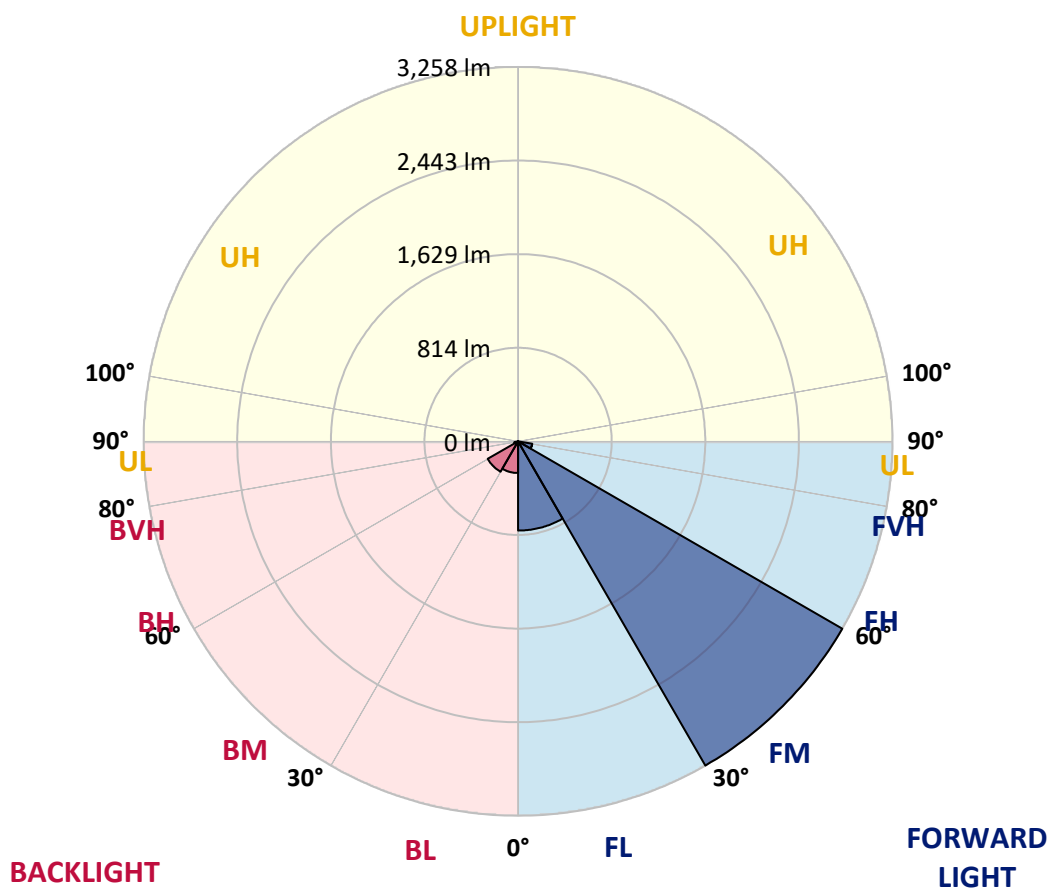
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	776.1	16.3			
FM (30°-60°)	3257.9	68.3			
FH (60°-80°)	124.9	2.6			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	275.2	5.8	B1/500		
BM (30°-60°)	305.0	6.4	B1/1000		
BH (60°-80°)	32.4	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°	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0
2.5°	1647.7	1660.8	1657.2	1639.9	1621.3	1608.1	1587.7	1581.3	1535.0	1502.8	1468.7
5°	1846.6	1850.7	1846.2	1825.3	1792.6	1761.2	1727.6	1708.1	1630.4	1560.4	1489.1
7.5°	1894.3	1889.3	1898.0	1908.4	1903.9	1890.3	1854.8	1833.5	1740.8	1626.8	1518.7
10°	1745.3	1734.0	1766.2	1820.3	1877.1	1941.1	1932.0	1933.9	1848.5	1710.4	1557.3
12.5°	1547.7	1543.2	1567.3	1630.0	1741.2	1886.6	1921.6	1980.2	1947.0	1800.8	1601.3
15°	1461.0	1463.2	1477.8	1517.3	1597.2	1778.0	1862.1	1967.9	2035.2	1888.4	1649.9
17.5°	1474.1	1482.3	1481.9	1495.0	1543.6	1688.6	1786.7	1929.3	2103.3	1989.3	1705.8
20°	1563.6	1571.8	1559.5	1549.5	1565.9	1665.8	1747.2	1890.3	2149.2	2091.0	1764.9
22.5°	1697.6	1707.2	1678.1	1649.5	1639.0	1703.1	1762.1	1874.4	2184.2	2184.2	1817.6
25°	1859.8	1873.0	1828.0	1777.1	1748.1	1781.7	1826.2	1910.2	2220.1	2267.8	1853.5
27.5°	2041.1	2041.5	2002.9	1945.7	1891.2	1895.3	1922.1	1991.1	2259.6	2357.7	1881.6
30°	2245.0	2246.4	2195.1	2126.5	2057.9	2039.3	2062.0	2114.2	2341.8	2470.8	1920.7
32.5°	2508.5	2514.9	2441.3	2340.4	2251.4	2216.4	2229.6	2284.6	2472.6	2612.6	1979.3
35°	2864.7	2871.5	2762.9	2629.8	2488.1	2435.4	2448.6	2504.0	2662.1	2813.8	2072.9
37.5°	3216.3	3225.4	3115.4	2991.4	2797.0	2709.8	2723.4	2776.1	2946.5	3091.8	2222.8
40°	3459.3	3471.6	3437.5	3353.9	3173.6	3059.1	3075.5	3094.5	3259.4	3424.4	2417.2
42.5°	3587.4	3604.7	3619.2	3661.9	3567.0	3471.1	3443.4	3444.8	3577.9	3763.2	2619.4
45°	3595.2	3612.0	3686.5	3851.4	3923.6	3903.6	3853.2	3819.1	3820.9	3989.0	2745.7
47.5°	3345.3	3376.7	3516.1	3839.1	4110.8	4276.6	4251.1	4170.3	3923.1	4004.0	2732.0
50°	2753.4	2784.3	3037.8	3502.5	3974.5	4425.6	4530.5	4421.9	3856.4	3817.3	2591.7
52.5°	1999.7	2002.9	2167.4	2710.2	3422.1	4150.7	4397.9	4387.4	3754.6	3591.1	2400.0
55°	949.9	938.5	1123.4	1529.6	2366.8	3357.1	3773.7	3891.8	3610.2	3427.5	2251.4
57.5°	276.7	282.1	364.3	596.9	1183.8	2145.6	2584.4	2804.3	2963.3	2817.9	1746.2
60°	124.0	124.5	138.6	181.7	394.3	998.0	1336.0	1608.1	1771.7	1641.8	866.3
62.5°	89.9	90.4	95.9	102.7	134.0	338.0	501.1	667.8	680.1	445.2	219.4
65°	75.0	75.0	75.9	75.9	80.4	120.8	152.2	196.2	165.4	122.7	85.9
67.5°	60.4	60.9	61.8	61.8	60.4	60.4	65.4	71.8	76.8	94.9	79.0
70°	47.2	46.8	46.8	47.2	45.9	39.1	42.2	48.2	52.7	74.0	68.6
72.5°	36.8	37.3	36.8	35.0	31.8	23.2	25.0	31.3	33.6	46.3	46.3
75°	27.7	28.2	26.3	20.0	13.2	7.3	9.5	15.4	19.5	22.7	16.8
77.5°	3.6	3.6	2.7	2.7	2.3	2.7	2.7	3.6	5.5	5.5	4.1
80°	0.5	0.5	0.5	0.9	1.4	1.8	1.8	1.8	1.8	2.3	2.3
82.5°	0.5	0.5	0.5	0.5	1.4	1.4	1.8	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.5	0.9	1.4	1.4	1.8	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.5	0.9	1.4	1.4	1.4	1.8	1.8	1.8
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°	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0
2.5°	1448.2	1421.9	1390.1	1368.3	1337.4	1317.0	1287.9	1268.3	1251.5	1238.4	1245.6
5°	1448.7	1406.9	1341.9	1286.5	1226.1	1170.7	1111.2	1064.4	1022.1	1003.0	1013.5
7.5°	1457.8	1397.8	1298.3	1199.7	1083.9	969.4	862.2	775.0	731.8	711.4	717.8
10°	1475.5	1393.7	1249.7	1086.2	898.1	741.8	637.8	578.8	554.7	542.0	544.2
12.5°	1491.9	1391.0	1186.6	936.7	708.7	575.6	521.5	513.3	518.3	518.8	518.3
15°	1514.1	1386.0	1108.4	783.2	566.9	497.4	498.8	510.6	522.4	526.1	525.1
17.5°	1537.7	1378.3	1007.6	636.0	481.1	474.7	490.6	506.5	518.3	520.1	520.6
20°	1562.3	1362.4	892.7	519.2	441.1	457.5	475.2	487.0	495.6	498.3	499.3
22.5°	1573.6	1328.8	760.0	435.7	414.3	436.1	449.3	464.7	467.5	457.5	459.3
25°	1567.7	1272.0	630.5	379.3	387.5	409.3	428.8	421.1	409.8	402.5	404.8
27.5°	1549.1	1196.6	503.8	338.0	358.9	386.6	388.9	380.2	378.4	372.5	374.3
30°	1529.1	1109.8	405.2	304.8	329.8	358.9	352.1	355.2	355.7	348.9	351.2
32.5°	1516.8	1018.9	322.5	282.6	311.2	316.6	330.3	336.6	337.1	321.2	323.9
35°	1520.9	929.5	273.0	264.4	293.9	292.6	311.6	315.3	288.9	267.1	269.4
37.5°	1554.1	846.8	244.9	250.3	263.9	274.4	288.9	264.8	258.9	248.9	250.3
40°	1615.9	776.4	228.0	241.7	243.5	260.3	238.0	241.2	241.7	235.3	236.7
42.5°	1688.1	717.8	218.1	236.7	232.1	234.9	212.6	219.0	225.8	223.1	223.5
45°	1724.4	660.5	209.4	219.4	220.8	194.9	189.9	196.7	205.3	206.7	207.2
47.5°	1692.2	606.0	200.3	194.4	203.5	177.6	171.7	174.0	184.0	189.4	190.3
50°	1593.6	543.3	186.7	172.2	167.2	159.5	154.0	154.5	165.8	175.4	177.2
52.5°	1455.1	477.9	164.4	145.8	134.5	140.4	141.7	139.0	149.5	159.0	160.8
55°	1320.6	396.1	130.4	118.6	108.1	120.8	124.5	120.8	124.0	130.4	130.8
57.5°	929.9	224.0	99.9	98.1	89.5	103.6	109.5	104.0	98.6	102.7	103.6
60°	431.1	117.2	76.8	76.8	74.5	89.0	99.0	91.3	80.9	82.7	84.0
62.5°	134.9	74.0	56.3	53.2	60.9	75.9	84.0	76.3	64.1	64.1	65.9
65°	76.3	63.6	44.5	40.9	49.5	60.9	65.9	57.7	46.8	45.9	45.9
67.5°	70.9	60.4	39.5	33.2	35.0	39.1	40.9	35.4	32.3	31.8	32.3
70°	58.6	50.4	31.8	22.7	21.4	20.9	21.8	20.4	19.5	20.0	21.4
72.5°	36.3	30.4	20.0	13.6	11.8	11.4	11.4	11.4	10.9	10.9	10.9
75°	13.2	11.4	9.1	6.8	5.9	5.5	5.5	5.9	5.5	5.0	4.5
77.5°	4.1	3.6	3.6	3.6	3.2	2.7	2.3	2.3	1.8	1.4	1.4
80°	2.3	2.3	2.3	2.3	1.8	1.8	1.4	0.9	0.5	0.5	0.0
82.5°	2.3	2.3	2.3	1.8	1.8	1.8	1.4	0.9	0.5	0.0	0.0
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.4	0.9	0.5	0.0	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.4	0.9	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)