

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: P631094

Luminaire Tested: GWS-SA1F-722-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-722-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5204.1 lumens
Efficiency: N/A
Efficacy: 77.4 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

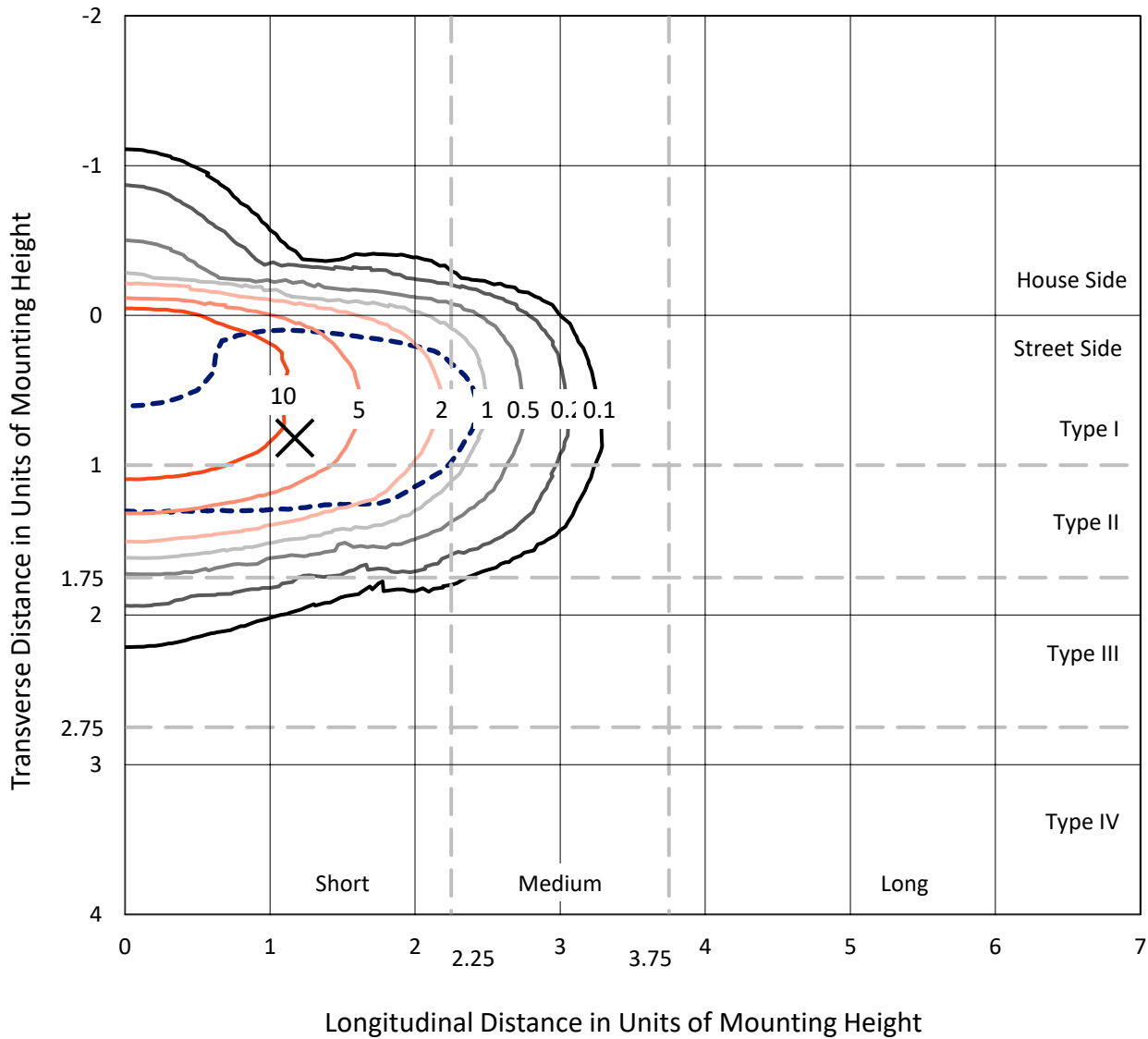
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

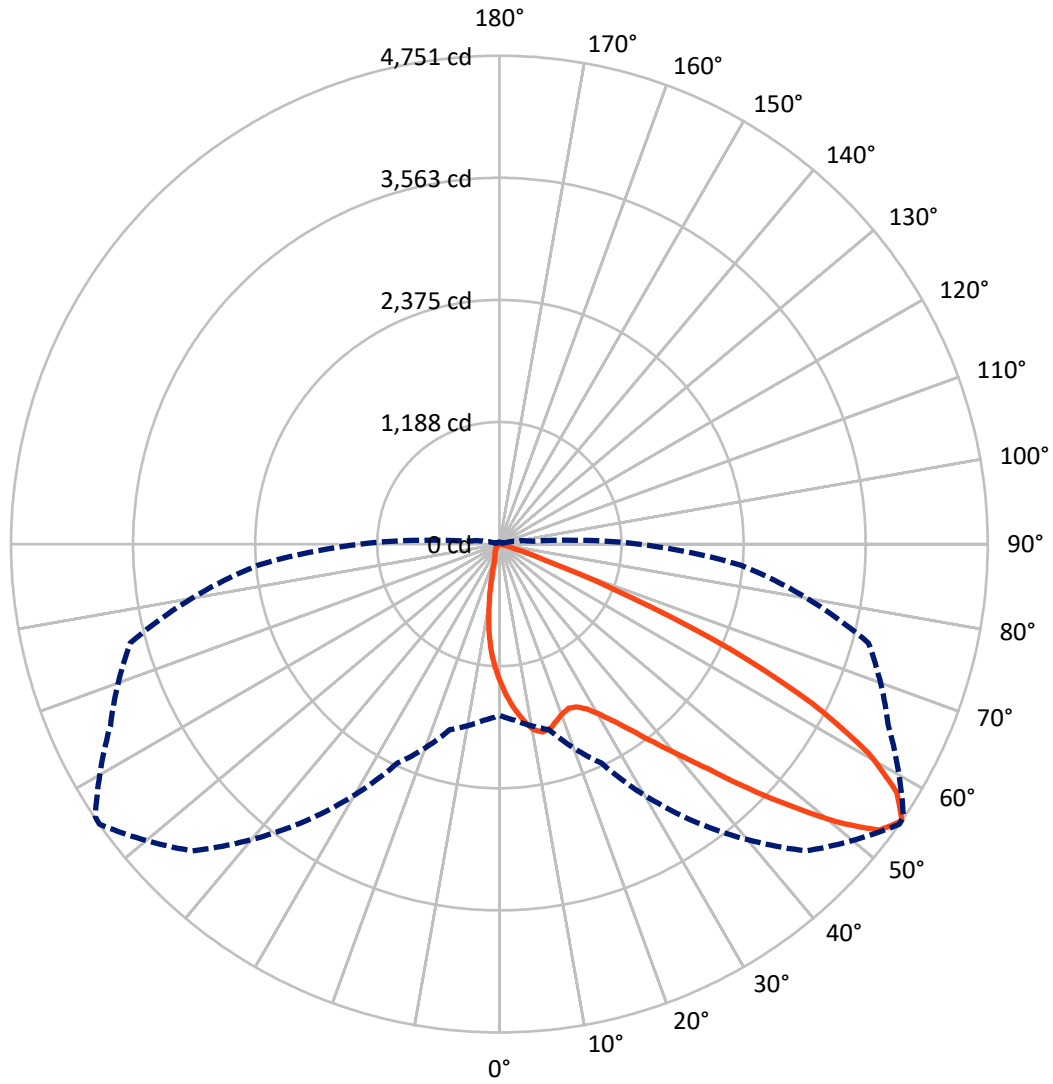
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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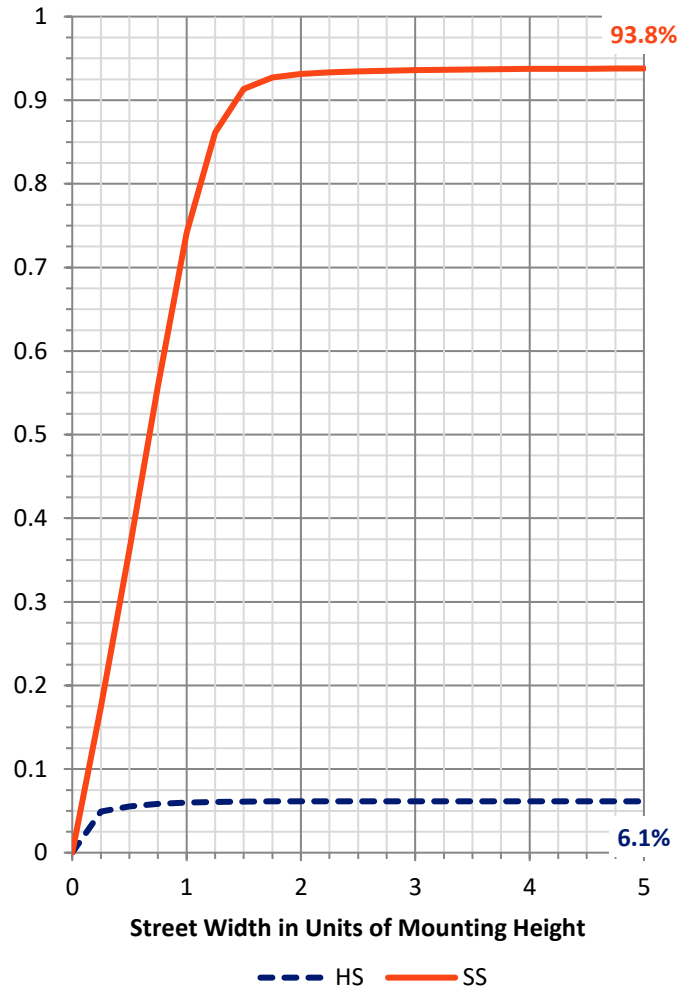
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	321.1	0.0	321.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	4883.0	0.0	4883.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	5204.1	0.0	5204.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	2.3
10°-20°	286.5	5.5
20°-30°	477.1	9.2
30°-40°	812.9	15.6
40°-50°	1327.0	25.5
50°-60°	1389.3	26.7
60°-70°	700.7	13.5
70°-80°	88.5	1.7
80°-90°	3.4	0.1
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°	5204.1	100.0
0°-180°	5204.1	100.0

Coefficient of Utilization



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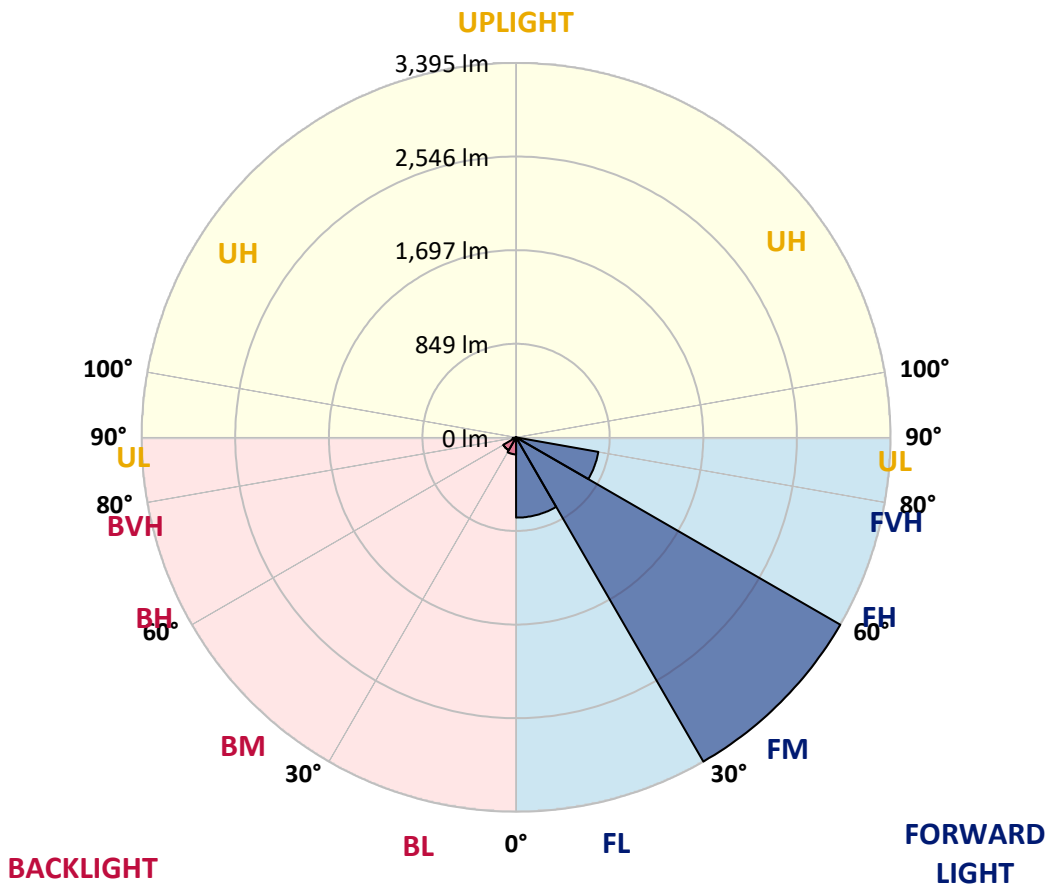
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	728.0	14.0			
FM (30°-60°)	3394.9	65.2			
FH (60°-80°)	757.0	14.5			G1/1800
FVH (80°-90°)	3.1	0.1			G0/10
BL (0°-30°)	154.3	3.0	B1/500		
BM (30°-60°)	134.3	2.6	B0/220		
BH (60°-80°)	32.2	0.6	B0/110		G0/110
BVH (80°-90°)	0.3	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4
2.5°	1567.3	1559.8	1571.3	1558.0	1535.3	1516.2	1491.2	1482.3	1442.3	1404.5	1368.0
5°	1757.7	1760.0	1756.4	1737.7	1705.7	1670.1	1619.8	1608.7	1538.8	1466.8	1388.9
7.5°	1804.9	1803.6	1811.1	1818.2	1812.9	1795.1	1740.4	1729.3	1642.5	1534.4	1421.0
10°	1659.4	1660.3	1675.9	1723.9	1783.5	1845.4	1836.9	1830.7	1745.7	1610.9	1456.5
12.5°	1453.9	1461.9	1478.3	1546.9	1647.8	1788.4	1875.6	1881.9	1840.5	1695.0	1498.4
15°	1364.9	1366.7	1380.0	1421.4	1496.6	1670.1	1859.2	1876.5	1919.7	1779.5	1543.7
17.5°	1362.7	1364.9	1370.7	1388.9	1437.9	1577.1	1806.2	1836.5	1979.3	1870.3	1598.0
20°	1446.3	1445.0	1441.0	1431.2	1452.5	1546.4	1757.3	1790.7	2011.8	1958.8	1652.7
22.5°	1598.0	1596.2	1578.4	1538.0	1520.6	1574.4	1733.3	1763.5	2031.3	2037.6	1697.7
25°	1772.9	1785.3	1751.9	1690.6	1647.8	1646.1	1754.6	1776.0	2048.2	2107.4	1728.4
27.5°	1964.6	1968.6	1940.1	1871.2	1809.3	1760.8	1816.5	1832.5	2066.9	2169.7	1745.7
30°	2175.0	2173.7	2141.2	2061.1	1986.0	1916.1	1920.6	1926.8	2110.5	2240.9	1764.8
32.5°	2438.0	2443.7	2385.9	2276.9	2186.6	2090.1	2056.7	2057.6	2189.3	2332.5	1793.8
35°	2795.2	2781.0	2704.4	2549.2	2395.2	2291.1	2234.2	2229.3	2310.7	2455.8	1844.0
37.5°	3135.5	3136.9	3056.8	2886.0	2691.5	2527.4	2446.9	2433.5	2481.6	2626.6	1927.7
40°	3371.8	3376.2	3342.8	3253.4	3047.4	2815.2	2696.9	2683.1	2703.1	2842.8	2037.1
42.5°	3496.8	3509.2	3518.6	3539.5	3383.3	3174.7	2992.7	2991.4	2970.5	3089.3	2163.9
45°	3501.7	3520.4	3577.3	3720.1	3737.9	3584.9	3386.9	3357.1	3276.6	3353.1	2277.4
47.5°	3308.1	3351.3	3472.3	3755.3	3942.1	3992.8	3796.6	3778.4	3552.4	3561.7	2362.3
50°	2857.0	2902.0	3124.9	3575.1	3993.7	4316.7	4246.4	4208.6	3782.8	3699.6	2403.3
52.5°	2394.4	2435.3	2586.5	3146.2	3779.7	4418.6	4625.4	4580.5	3989.7	3747.7	2386.3
55°	1666.1	1720.8	1868.5	2351.6	3286.8	4220.2	4750.9	4741.6	4174.3	3717.4	2360.1
57.5°	816.8	871.1	1018.3	1449.9	2434.8	3684.5	4559.2	4608.5	4284.7	3685.0	2338.7
60°	341.2	363.5	414.2	636.2	1362.2	2784.5	4126.3	4194.8	4217.0	3640.9	2336.5
62.5°	198.0	201.5	206.9	263.8	529.9	1596.2	3422.9	3520.4	3861.6	3582.6	2301.4
65°	149.5	150.8	148.6	161.9	218.9	605.5	2473.1	2605.7	3223.2	3354.9	2162.6
67.5°	122.8	122.8	117.0	119.7	137.5	226.9	1365.3	1550.4	2385.0	2757.4	1785.8
70°	97.9	100.1	97.4	93.9	98.3	125.5	485.8	602.4	1388.9	1628.3	1041.5
72.5°	74.3	74.3	78.7	76.1	73.0	78.7	169.5	190.4	557.4	678.9	375.9
75°	57.4	59.2	62.3	59.6	55.2	46.7	81.4	86.3	168.2	157.9	84.1
77.5°	29.4	29.8	39.6	43.6	40.9	28.5	35.6	39.1	54.7	48.9	31.1
80°	17.8	18.7	22.2	34.3	27.1	15.1	14.7	15.6	25.8	22.2	12.9
82.5°	7.6	8.0	12.5	12.5	11.1	5.8	5.8	5.8	12.5	11.6	5.3
85°	0.0	0.0	2.2	1.8	1.8	2.2	2.2	2.2	3.1	4.4	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.3	1.3
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°	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4
2.5°	1344.4	1316.0	1277.7	1243.0	1196.3	1170.0	1133.6	1103.8	1078.4	1070.4	1066.8
5°	1344.9	1295.9	1214.1	1132.2	1031.7	952.5	871.1	806.6	753.6	736.7	732.3
7.5°	1353.8	1281.7	1149.1	1000.5	832.4	693.6	569.4	458.2	406.6	389.3	385.7
10°	1365.8	1269.7	1073.9	842.6	601.0	422.6	299.4	228.2	194.4	175.7	178.4
12.5°	1381.4	1259.9	990.8	671.8	397.7	232.2	164.6	137.9	130.8	127.2	125.5
15°	1402.3	1248.3	887.5	502.3	243.8	149.5	126.8	119.7	117.0	115.2	114.8
17.5°	1423.6	1235.0	782.5	353.2	161.9	124.1	113.9	110.3	108.6	107.2	106.8
20°	1446.3	1212.3	659.3	243.4	127.7	111.7	105.0	101.0	98.8	96.5	96.1
22.5°	1456.1	1175.8	541.4	170.4	113.4	102.8	94.3	89.4	86.8	85.0	85.0
25°	1446.8	1116.7	419.5	129.5	103.2	93.0	84.5	79.2	77.0	75.2	75.2
27.5°	1421.8	1040.6	306.1	107.2	92.1	82.7	74.7	69.8	68.1	67.2	67.2
30°	1394.3	944.5	215.8	92.1	79.6	72.1	65.4	62.3	61.8	60.9	60.9
32.5°	1370.7	854.6	148.6	81.0	70.3	62.7	58.3	56.9	57.4	56.5	56.9
35°	1357.8	766.5	110.3	72.1	62.7	55.6	53.4	53.4	53.4	52.9	52.9
37.5°	1363.1	679.8	89.9	65.8	56.1	50.7	48.5	49.4	50.3	50.3	50.3
40°	1389.8	602.8	79.6	60.1	50.3	46.3	44.5	45.8	47.2	48.0	48.0
42.5°	1423.6	540.5	72.1	55.2	46.3	41.8	40.9	42.3	43.6	44.5	44.5
45°	1445.0	477.8	64.5	48.9	42.3	36.9	36.9	38.7	38.3	38.7	38.7
47.5°	1454.8	428.0	56.9	42.3	36.0	32.0	32.5	33.4	32.5	33.4	33.4
50°	1430.7	377.7	50.3	35.1	29.8	28.0	28.9	28.5	28.5	30.3	30.3
52.5°	1386.7	340.3	44.5	29.8	25.4	24.9	25.8	24.0	24.5	24.5	24.0
55°	1354.2	319.0	39.6	25.8	21.8	22.2	21.8	18.7	16.9	15.1	14.7
57.5°	1338.2	310.5	36.0	23.1	19.6	19.6	17.8	12.9	9.8	7.6	6.7
60°	1334.6	300.3	32.5	20.0	17.4	16.5	12.9	7.6	4.9	3.6	3.1
62.5°	1300.8	275.4	29.4	16.0	15.1	13.3	8.0	4.4	2.7	1.8	1.3
65°	1190.1	226.4	26.2	12.5	11.6	9.8	4.9	2.7	1.3	0.4	0.0
67.5°	946.7	160.6	23.1	9.3	8.0	6.2	3.1	1.8	0.4	0.0	0.0
70°	545.9	86.8	19.1	6.7	5.3	4.0	2.2	0.9	0.0	0.0	0.0
72.5°	182.4	40.5	14.7	4.4	4.0	3.1	1.3	0.4	0.0	0.0	0.0
75°	40.0	24.0	9.8	3.1	2.7	2.2	0.9	0.0	0.0	0.0	0.0
77.5°	15.1	16.9	4.9	2.2	1.8	1.3	0.4	0.0	0.0	0.0	0.0
80°	5.8	11.1	2.2	1.3	1.3	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	3.1	4.4	1.3	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.8	2.2	0.9	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	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)