

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: P633595

Luminaire Tested: GWS-SA2F-722-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-722-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8950.9 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

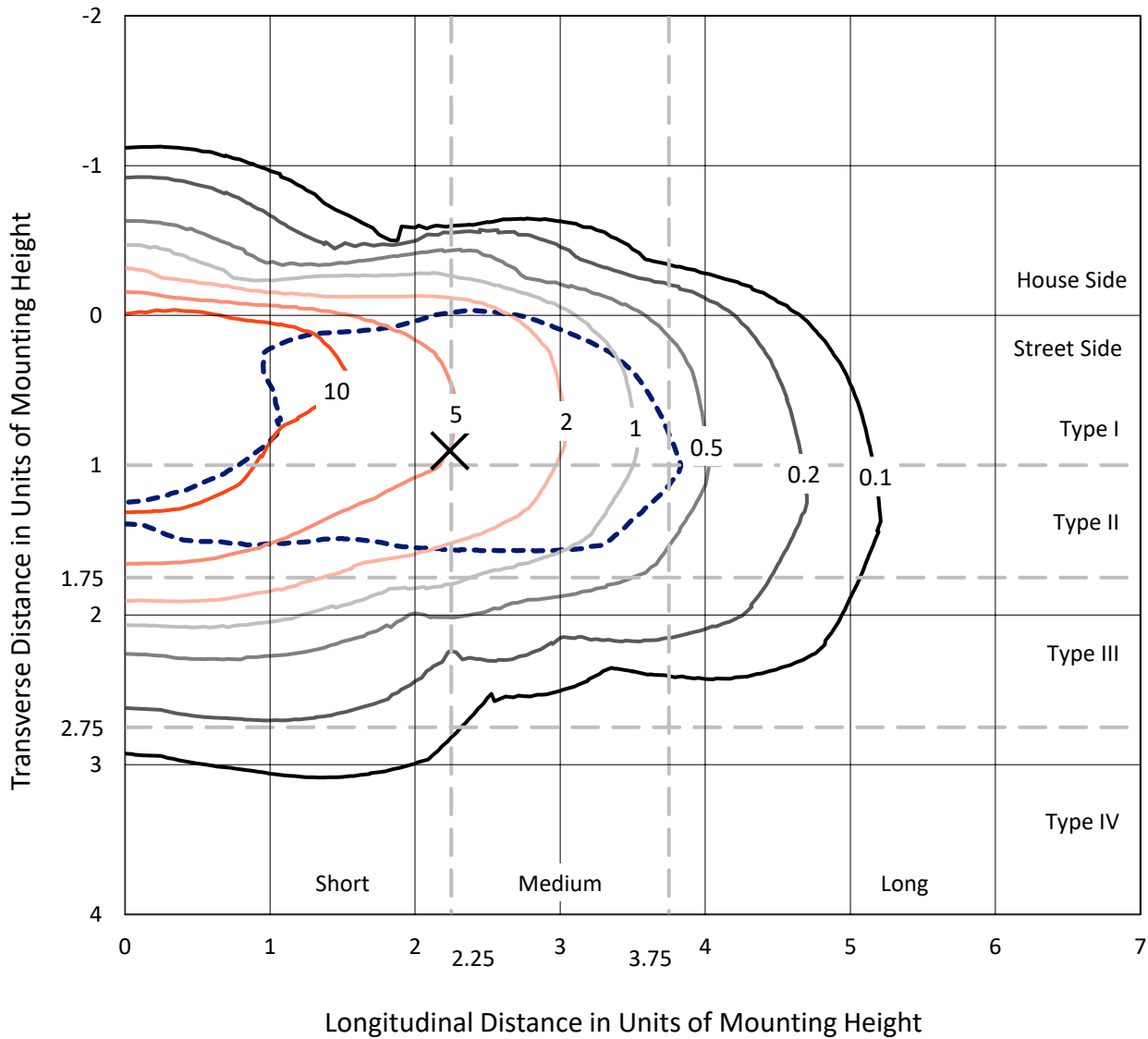
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

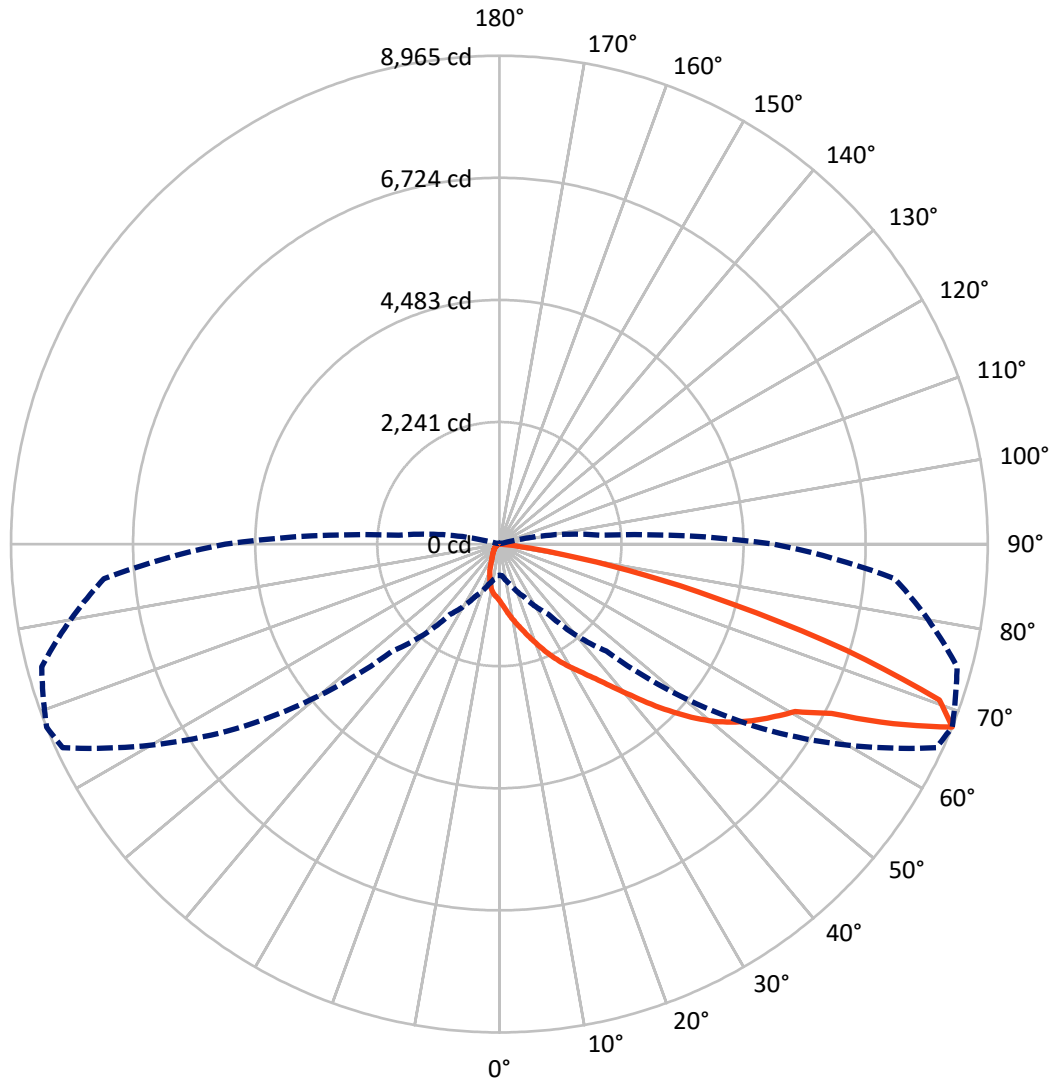
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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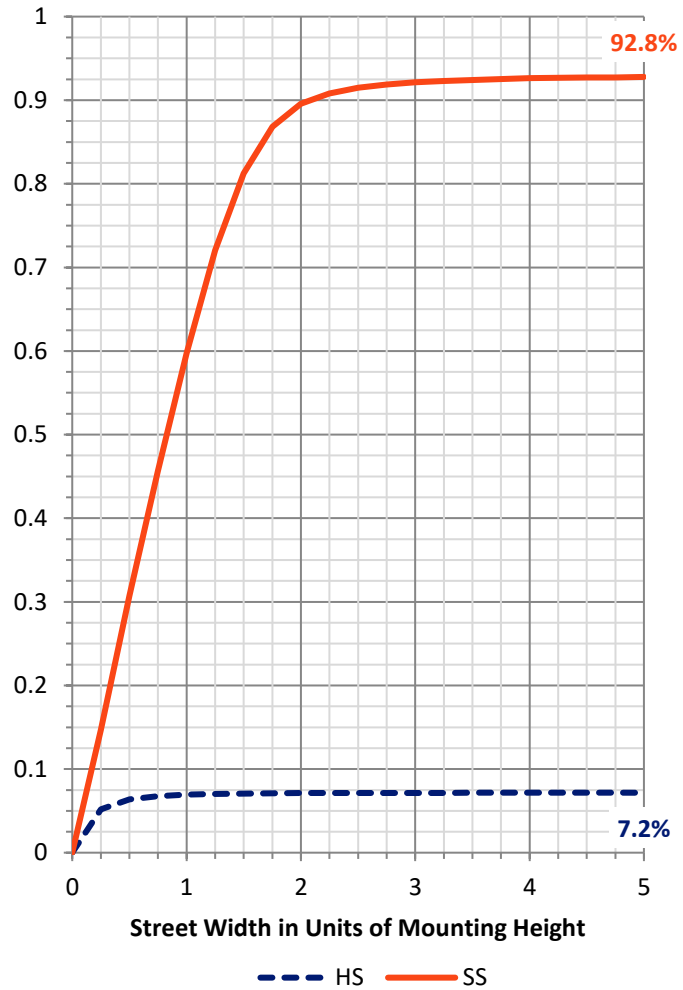
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	646.4	0.0	646.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	8304.5	0.0	8304.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	8950.9	0.0	8950.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	1.1
10°-20°	291.7	3.3
20°-30°	501.4	5.6
30°-40°	871.7	9.7
40°-50°	1521.0	17.0
50°-60°	2294.1	25.6
60°-70°	2300.3	25.7
70°-80°	1014.9	11.3
80°-90°	54.2	0.6
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°	8950.9	100.0
0°-180°	8950.9	100.0

Coefficient of Utilization



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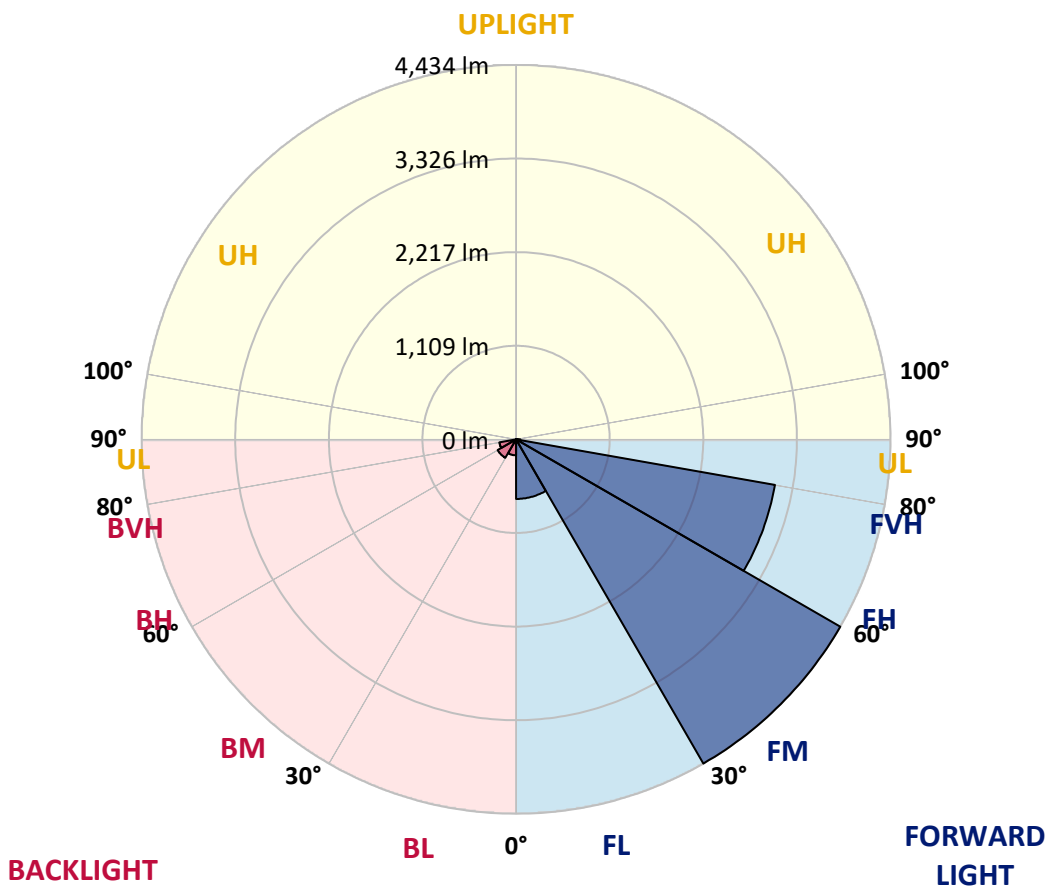
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	705.6	7.9			
FM (30°-60°)	4434.3	49.5			
FH (60°-80°)	3113.5	34.8			G2/5000
FVH (80°-90°)	51.2	0.6			G1/100
BL (0°-30°)	189.1	2.1	B1/500		
BM (30°-60°)	252.5	2.8	B1/1000		
BH (60°-80°)	201.7	2.3	B1/500		G1/500
BVH (80°-90°)	3.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7
2.5°	1213.0	1220.7	1213.0	1214.7	1192.4	1182.1	1159.9	1129.0	1121.3	1101.6	1071.6
5°	1361.2	1368.0	1360.3	1358.6	1332.9	1314.1	1277.2	1224.1	1208.7	1170.2	1111.0
7.5°	1441.7	1446.0	1448.6	1452.8	1443.4	1428.0	1394.6	1328.6	1312.4	1249.8	1166.7
10°	1450.3	1453.7	1466.5	1492.2	1511.1	1520.5	1501.7	1440.8	1415.1	1354.3	1235.3
12.5°	1426.3	1431.4	1452.0	1494.8	1547.1	1595.0	1607.0	1553.9	1530.8	1452.8	1315.8
15°	1394.6	1398.9	1427.1	1485.4	1564.2	1652.4	1702.1	1679.0	1653.3	1571.9	1404.9
17.5°	1345.8	1351.8	1391.2	1470.0	1571.9	1697.8	1804.9	1812.6	1794.6	1706.4	1503.4
20°	1318.3	1322.6	1357.8	1439.1	1566.8	1731.2	1900.9	1973.7	1954.0	1861.4	1616.5
22.5°	1341.5	1344.9	1368.0	1431.4	1549.6	1750.1	1989.9	2134.7	2123.6	2027.6	1735.5
25°	1463.1	1474.3	1460.5	1471.7	1557.3	1760.4	2061.9	2295.8	2298.3	2201.5	1858.9
27.5°	1709.8	1695.3	1662.7	1607.0	1617.3	1787.8	2123.6	2447.4	2469.7	2371.1	1968.5
30°	1960.8	1952.3	1932.5	1846.0	1774.1	1848.6	2175.8	2602.4	2637.6	2538.2	2066.2
32.5°	2242.6	2251.2	2216.1	2112.4	1989.9	1972.0	2229.8	2749.8	2815.7	2727.5	2181.0
35°	2579.3	2581.9	2512.5	2397.7	2258.9	2175.8	2326.6	2912.5	3034.2	2969.1	2334.3
37.5°	2907.4	2922.8	2885.1	2704.4	2581.0	2429.4	2486.8	3121.5	3292.9	3267.2	2527.0
40°	3197.8	3221.8	3209.8	3035.0	2873.1	2745.5	2735.2	3366.5	3605.5	3634.7	2781.5
42.5°	3429.1	3444.5	3453.9	3329.7	3186.6	3114.7	3041.9	3650.9	3974.7	4093.8	3093.3
45°	3673.2	3678.4	3698.1	3614.1	3489.0	3495.0	3404.2	3996.2	4363.7	4602.7	3451.3
47.5°	3984.2	4001.3	3991.9	3903.6	3790.6	3858.2	3778.6	4351.7	4747.4	5145.8	3818.0
50°	4362.8	4380.8	4372.2	4269.4	4143.5	4171.8	4122.1	4696.9	5117.5	5658.0	4122.9
52.5°	4558.1	4572.7	4678.9	4725.1	4659.2	4479.3	4415.1	5076.4	5430.2	6079.5	4403.1
55°	4463.9	4474.2	4705.4	4900.8	5142.3	4962.4	4709.7	5369.3	5706.0	6408.4	4611.2
57.5°	4073.3	4128.9	4443.3	4774.0	5282.0	5439.6	5187.7	5688.0	5971.5	6637.1	4816.0
60°	3272.3	3269.7	3720.3	4314.0	5009.5	5570.6	5862.7	6118.9	6238.0	6812.7	5090.1
62.5°	1808.3	1824.6	2424.3	3206.4	4252.3	5231.4	6369.0	6863.3	6845.3	7119.4	5519.2
65°	900.3	932.9	1258.4	1836.6	2829.4	4323.4	6456.4	7999.2	7947.8	7841.6	6405.8
67.5°	571.4	584.2	764.1	1067.4	1572.8	2778.9	5912.4	8846.4	8965.4	8698.2	7285.6
70°	370.1	391.5	531.1	729.8	949.1	1432.3	4331.1	8297.3	8570.5	8604.0	6737.4
72.5°	201.3	216.7	339.2	520.8	685.3	716.1	2432.8	6226.8	6666.3	7298.5	5270.8
75°	114.8	125.9	185.9	353.8	502.8	436.0	1078.5	4168.3	4448.5	5216.0	3776.9
77.5°	69.4	78.8	104.5	172.2	315.2	291.3	407.8	2537.3	2715.5	3112.1	1982.2
80°	31.7	37.7	66.0	95.1	172.2	137.9	155.9	1183.0	1221.5	1277.2	656.2
82.5°	14.6	17.1	30.0	56.5	97.7	79.7	60.0	273.3	384.6	364.1	167.0
85°	1.7	1.7	11.1	23.1	27.4	20.6	24.8	61.7	78.0	109.6	48.0
87.5°	0.0	0.0	0.9	0.9	1.7	2.6	5.1	7.7	11.1	18.0	12.0
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°	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7
2.5°	1057.9	1033.9	1012.5	980.8	959.4	935.4	919.2	899.5	891.7	885.8	877.2
5°	1081.9	1043.4	991.1	932.9	884.9	839.5	797.5	770.1	746.1	742.7	730.7
7.5°	1121.3	1063.9	975.7	880.6	799.2	723.8	664.7	616.8	592.8	585.1	571.4
10°	1173.6	1094.8	952.6	806.9	689.6	599.6	532.8	478.9	441.2	427.5	417.2
12.5°	1231.8	1123.0	915.7	716.1	582.5	479.7	394.9	337.5	313.5	305.0	297.2
15°	1298.6	1149.6	857.5	625.3	478.0	352.9	293.0	268.1	257.8	255.3	252.7
17.5°	1362.9	1166.7	788.1	531.1	367.5	274.1	245.9	236.4	233.9	231.3	229.6
20°	1435.7	1178.7	706.7	442.0	285.3	232.1	218.4	211.6	206.4	201.3	200.5
22.5°	1510.2	1178.7	618.5	354.6	239.0	208.2	192.7	179.9	170.5	165.3	163.6
25°	1581.3	1162.4	531.1	283.5	210.7	185.0	165.3	150.8	137.9	131.9	130.2
27.5°	1631.9	1120.5	454.9	239.9	191.0	164.5	140.5	124.2	113.9	107.9	107.1
30°	1663.6	1057.9	384.6	214.2	173.9	143.1	119.1	105.4	97.7	93.4	91.7
32.5°	1687.6	980.8	322.1	196.2	157.6	124.2	103.7	92.5	85.7	82.2	81.4
35°	1735.5	908.0	275.8	179.9	140.5	108.8	90.8	82.2	77.1	72.8	72.0
37.5°	1802.3	847.2	239.0	165.3	124.2	96.8	82.2	74.5	70.2	66.0	65.1
40°	1900.9	808.7	211.6	150.8	109.6	87.4	75.4	68.5	62.5	58.3	57.4
42.5°	2052.5	790.7	193.6	136.2	96.8	78.8	69.4	60.8	54.8	50.5	49.7
45°	2233.2	800.1	178.2	121.6	88.2	72.8	61.7	53.1	47.1	42.8	42.0
47.5°	2426.8	833.5	165.3	107.9	79.7	66.8	54.8	45.4	40.3	36.0	35.1
50°	2629.0	888.3	154.2	95.1	72.8	60.0	47.1	39.4	34.3	30.8	30.0
52.5°	2804.6	962.8	143.1	85.7	66.8	53.1	41.1	34.3	29.1	25.7	24.8
55°	2972.5	1033.1	134.5	77.1	60.0	46.3	36.0	29.1	24.8	21.4	20.6
57.5°	3155.0	1107.6	124.2	69.4	54.0	41.1	31.7	24.8	21.4	18.0	17.1
60°	3420.5	1218.1	108.8	63.4	47.1	36.0	27.4	22.3	18.8	14.6	13.7
62.5°	3803.4	1419.4	91.7	54.8	40.3	30.8	23.1	18.8	15.4	12.0	10.3
65°	4519.6	1762.1	75.4	45.4	32.6	25.7	19.7	15.4	12.0	8.6	7.7
67.5°	5035.2	1851.2	60.8	36.8	26.6	19.7	16.3	12.0	8.6	6.0	5.1
70°	4402.2	1329.5	47.1	30.0	22.3	15.4	12.8	9.4	6.0	4.3	3.4
72.5°	3316.9	868.6	35.1	23.1	17.1	12.8	9.4	7.7	5.1	3.4	2.6
75°	2337.7	502.0	25.7	17.1	12.0	9.4	7.7	6.0	4.3	2.6	2.6
77.5°	1198.4	207.3	18.0	12.0	8.6	6.0	5.1	3.4	3.4	2.6	1.7
80°	364.1	68.5	10.3	7.7	6.0	4.3	2.6	2.6	2.6	1.7	0.9
82.5°	83.1	22.3	6.0	6.0	4.3	3.4	2.6	0.9	0.9	0.0	0.0
85°	21.4	6.9	5.1	4.3	4.3	3.4	1.7	0.9	0.0	0.0	0.0
87.5°	7.7	4.3	4.3	4.3	3.4	2.6	1.7	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)