

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: P636565

Luminaire Tested: GWS-SA4B-722-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636565
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-SA4B-722-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7986.2 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

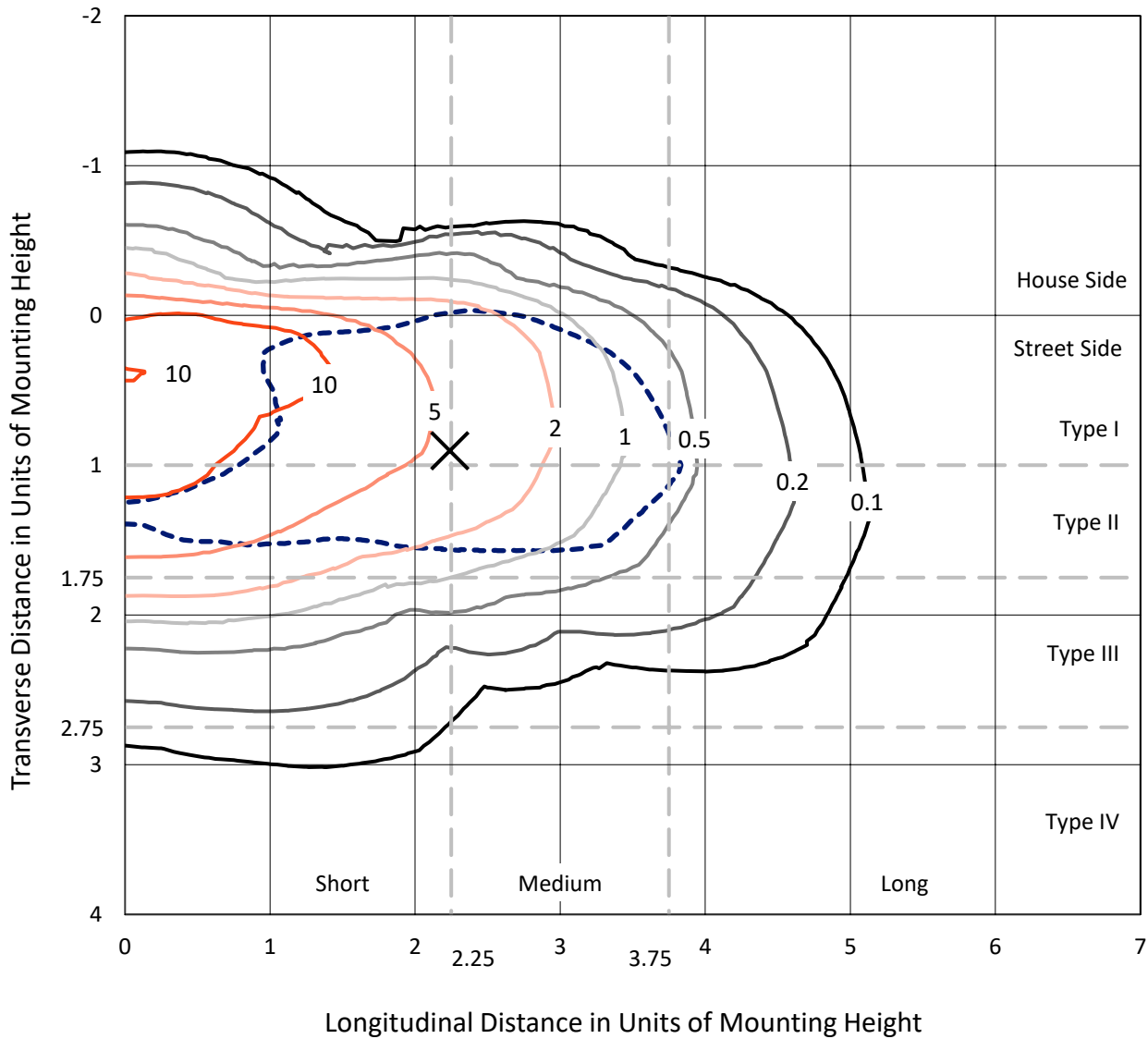
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

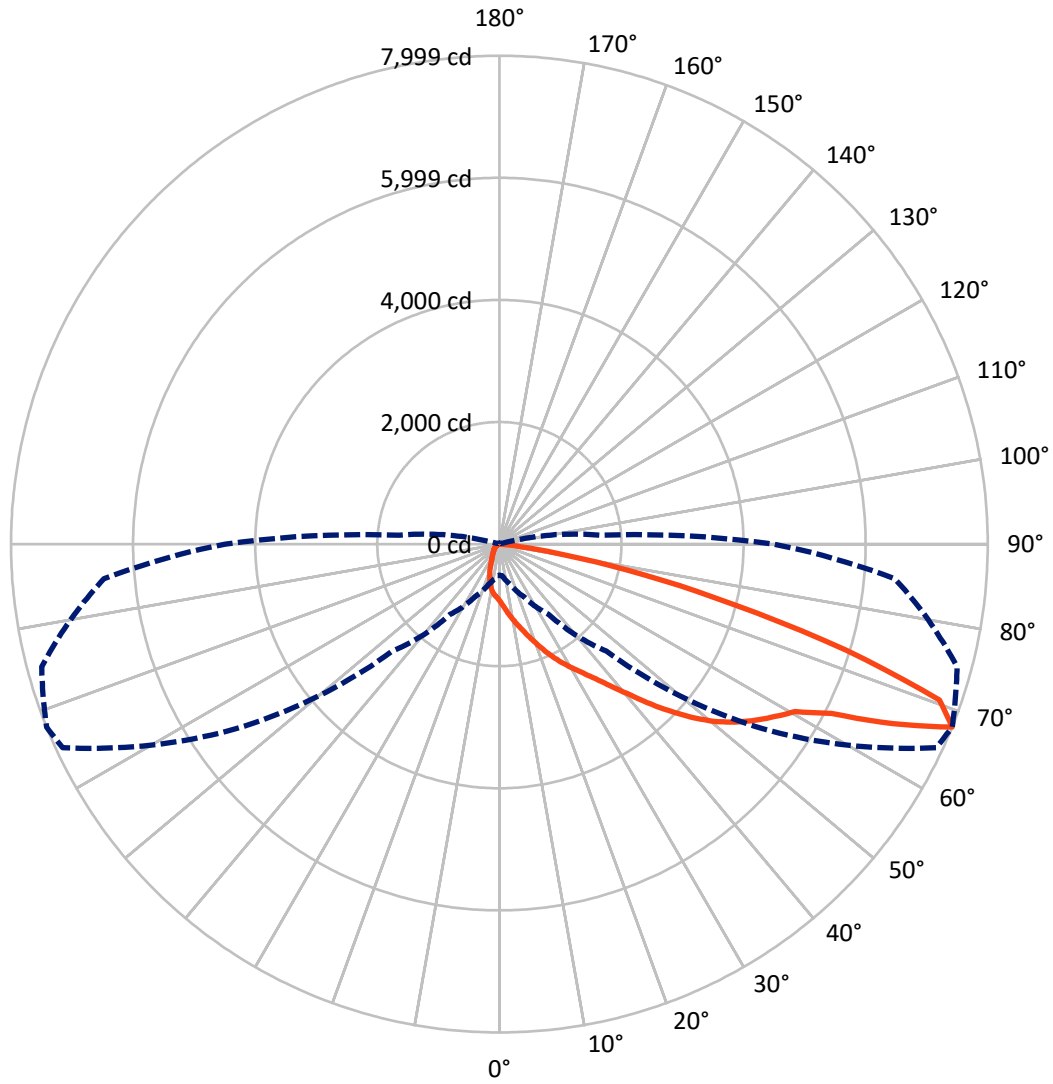
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15 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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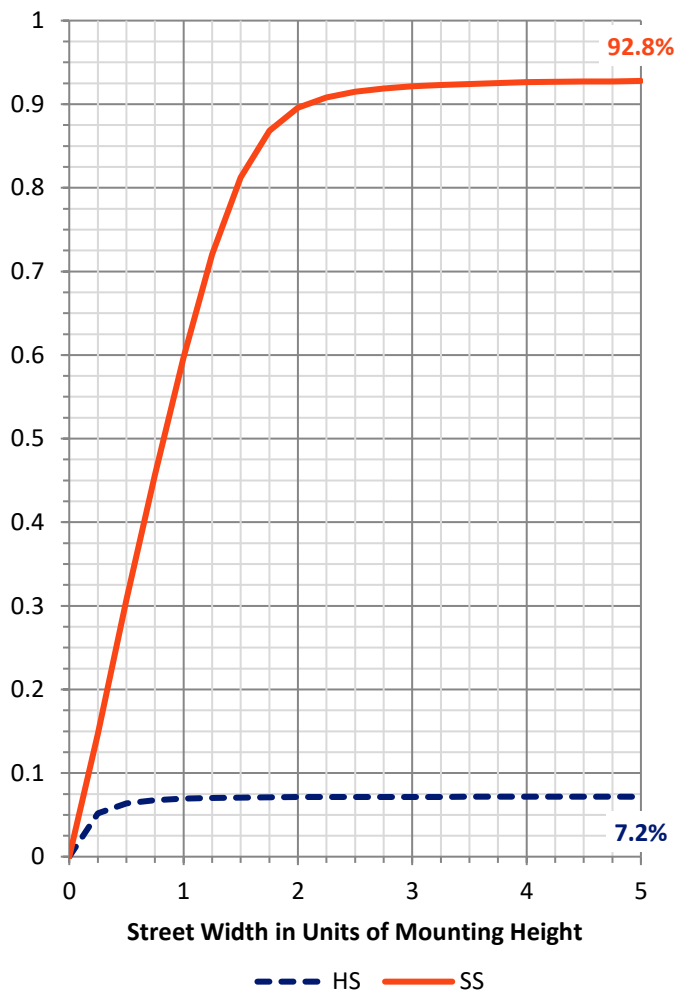
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	576.7	0.0	576.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	7409.5	0.0	7409.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	7986.2	0.0	7986.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	1.1
10°-20°	260.3	3.3
20°-30°	447.3	5.6
30°-40°	777.7	9.7
40°-50°	1357.1	17.0
50°-60°	2046.8	25.6
60°-70°	2052.4	25.7
70°-80°	905.5	11.3
80°-90°	48.4	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°	7986.2	100.0
0°-180°	7986.2	100.0

Coefficient of Utilization



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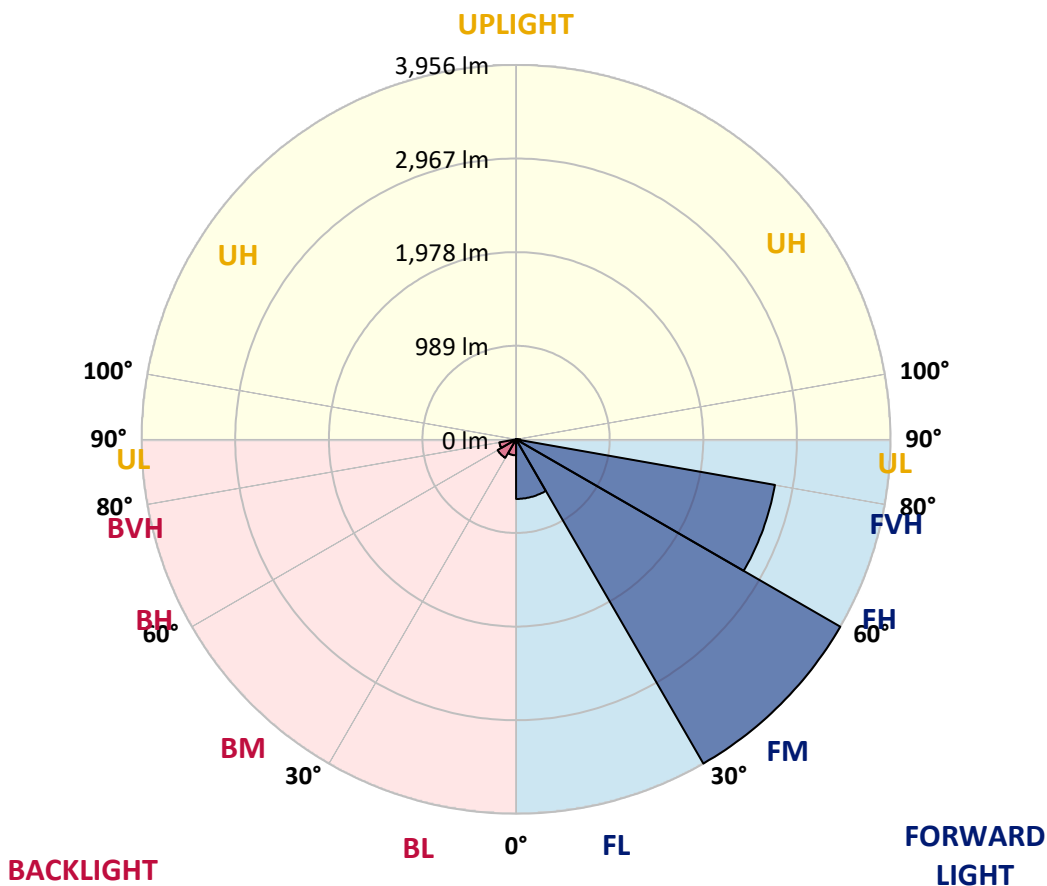
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	629.6	7.9			
FM (30°-60°)	3956.3	49.5			
FH (60°-80°)	2778.0	34.8			G2/5000
FVH (80°-90°)	45.6	0.6			G1/100
BL (0°-30°)	168.7	2.1	B1/500		
BM (30°-60°)	225.3	2.8	B1/1000		
BH (60°-80°)	180.0	2.3	B1/500		G1/500
BVH (80°-90°)	2.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	929.4	929.4	929.4	929.4	929.4	929.4	929.4	929.4	929.4	929.4	929.4
2.5°	1082.3	1089.1	1082.3	1083.8	1063.9	1054.7	1034.9	1007.3	1000.5	982.9	956.1
5°	1214.5	1220.6	1213.7	1212.2	1189.3	1172.4	1139.6	1092.2	1078.4	1044.0	991.3
7.5°	1286.3	1290.1	1292.4	1296.3	1287.8	1274.1	1244.3	1185.4	1170.9	1115.1	1041.0
10°	1294.0	1297.0	1308.5	1331.4	1348.2	1356.6	1339.8	1285.6	1262.6	1208.4	1102.1
12.5°	1272.6	1277.1	1295.5	1333.7	1380.3	1423.1	1433.8	1386.4	1365.8	1296.3	1174.0
15°	1244.3	1248.1	1273.3	1325.3	1395.6	1474.3	1518.7	1498.0	1475.1	1402.5	1253.5
17.5°	1200.7	1206.1	1241.2	1311.5	1402.5	1514.8	1610.4	1617.3	1601.2	1522.5	1341.3
20°	1176.3	1180.1	1211.4	1284.0	1397.9	1544.7	1696.0	1761.0	1743.4	1660.8	1442.2
22.5°	1196.9	1200.0	1220.6	1277.1	1382.6	1561.5	1775.5	1904.6	1894.7	1809.1	1548.5
25°	1305.4	1315.4	1303.1	1313.1	1389.5	1570.6	1839.7	2048.3	2050.6	1964.3	1658.5
27.5°	1525.5	1512.6	1483.5	1433.8	1443.0	1595.1	1894.7	2183.6	2203.5	2115.6	1756.4
30°	1749.5	1741.8	1724.3	1647.1	1582.9	1649.4	1941.3	2321.9	2353.3	2264.6	1843.5
32.5°	2000.9	2008.6	1977.2	1884.8	1775.5	1759.4	1989.5	2453.4	2512.3	2433.5	1945.9
35°	2301.3	2303.6	2241.7	2139.3	2015.5	1941.3	2075.8	2598.6	2707.2	2649.1	2082.7
37.5°	2594.0	2607.8	2574.2	2412.9	2302.8	2167.6	2218.8	2785.1	2938.0	2915.0	2254.7
40°	2853.1	2874.5	2863.8	2707.9	2563.5	2449.6	2440.4	3003.7	3216.9	3242.9	2481.7
42.5°	3059.5	3073.3	3081.7	2970.8	2843.2	2779.0	2714.0	3257.5	3546.4	3652.6	2759.9
45°	3277.3	3281.9	3299.5	3224.6	3113.0	3118.4	3037.3	3565.5	3893.4	4106.6	3079.4
47.5°	3554.8	3570.1	3561.6	3482.9	3382.0	3442.4	3371.3	3882.7	4235.8	4591.2	3406.5
50°	3892.6	3908.6	3901.0	3809.3	3696.9	3722.1	3677.8	4190.7	4565.9	5048.2	3678.6
52.5°	4066.8	4079.8	4174.6	4215.9	4157.0	3996.5	3939.2	4529.3	4844.9	5424.2	3928.5
55°	3982.8	3991.9	4198.3	4372.6	4588.1	4427.6	4202.1	4790.6	5091.0	5717.7	4114.2
57.5°	3634.3	3683.9	3964.4	4259.5	4712.7	4853.3	4628.6	5075.0	5327.9	5921.8	4296.9
60°	2919.6	2917.3	3319.4	3849.0	4469.6	4970.3	5230.9	5459.4	5565.6	6078.5	4541.5
62.5°	1613.4	1628.0	2163.0	2860.8	3794.0	4667.6	5682.6	6123.6	6107.5	6352.1	4924.4
65°	803.3	832.3	1122.8	1638.7	2524.5	3857.4	5760.5	7137.0	7091.2	6996.4	5715.4
67.5°	509.8	521.3	681.8	952.3	1403.3	2479.4	5275.2	7892.9	7999.2	7760.7	6500.4
70°	330.2	349.3	473.9	651.2	846.8	1277.9	3864.3	7403.0	7646.8	7676.6	6011.2
72.5°	179.6	193.4	302.7	464.7	611.4	639.0	2170.6	5555.7	5947.8	6511.8	4702.7
75°	102.4	112.4	165.9	315.7	448.6	389.0	962.3	3719.1	3969.0	4653.8	3369.8
77.5°	61.9	70.3	93.2	153.6	281.3	259.9	363.8	2263.9	2422.8	2776.7	1768.6
80°	28.3	33.6	58.9	84.8	153.6	123.1	139.1	1055.5	1089.9	1139.6	585.5
82.5°	13.0	15.3	26.8	50.4	87.1	71.1	53.5	243.8	343.2	324.8	149.0
85°	1.5	1.5	9.9	20.6	24.5	18.3	22.2	55.0	69.6	97.8	42.8
87.5°	0.0	0.0	0.8	0.8	1.5	2.3	4.6	6.9	9.9	16.1	10.7
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°	929.4	929.4	929.4	929.4	929.4	929.4	929.4	929.4	929.4	929.4	929.4
2.5°	943.9	922.5	903.4	875.1	856.0	834.6	820.1	802.5	795.6	790.3	782.6
5°	965.3	930.9	884.3	832.3	789.5	749.0	711.6	687.1	665.7	662.6	651.9
7.5°	1000.5	949.3	870.5	785.7	713.1	645.8	593.1	550.3	528.9	522.0	509.8
10°	1047.1	976.8	849.9	720.0	615.3	535.0	475.4	427.2	393.6	381.4	372.2
12.5°	1099.1	1002.0	817.0	639.0	519.7	428.0	352.3	301.1	279.7	272.1	265.2
15°	1158.7	1025.7	765.1	557.9	426.5	314.9	261.4	239.2	230.1	227.8	225.5
17.5°	1216.0	1041.0	703.2	473.9	327.9	244.6	219.4	210.9	208.7	206.4	204.8
20°	1281.0	1051.7	630.5	394.4	254.5	207.1	194.9	188.8	184.2	179.6	178.8
22.5°	1347.5	1051.7	551.8	316.4	213.2	185.7	172.0	160.5	152.1	147.5	146.0
25°	1410.9	1037.2	473.9	253.0	188.0	165.1	147.5	134.5	123.1	117.7	116.2
27.5°	1456.0	999.7	405.8	214.0	170.4	146.7	125.3	110.8	101.7	96.3	95.5
30°	1484.3	943.9	343.2	191.1	155.2	127.6	106.2	94.0	87.1	83.3	81.8
32.5°	1505.7	875.1	287.4	175.0	140.6	110.8	92.5	82.5	76.4	73.4	72.6
35°	1548.5	810.2	246.1	160.5	125.3	97.1	81.0	73.4	68.8	65.0	64.2
37.5°	1608.1	755.9	213.2	147.5	110.8	86.4	73.4	66.5	62.7	58.9	58.1
40°	1696.0	721.5	188.8	134.5	97.8	78.0	67.3	61.1	55.8	52.0	51.2
42.5°	1831.3	705.5	172.7	121.5	86.4	70.3	61.9	54.3	48.9	45.1	44.3
45°	1992.5	713.9	159.0	108.5	78.7	65.0	55.0	47.4	42.0	38.2	37.5
47.5°	2165.3	743.7	147.5	96.3	71.1	59.6	48.9	40.5	35.9	32.1	31.3
50°	2345.6	792.6	137.6	84.8	65.0	53.5	42.0	35.2	30.6	27.5	26.8
52.5°	2502.3	859.1	127.6	76.4	59.6	47.4	36.7	30.6	26.0	22.9	22.2
55°	2652.1	921.7	120.0	68.8	53.5	41.3	32.1	26.0	22.2	19.1	18.3
57.5°	2814.9	988.2	110.8	61.9	48.2	36.7	28.3	22.2	19.1	16.1	15.3
60°	3051.9	1086.8	97.1	56.6	42.0	32.1	24.5	19.9	16.8	13.0	12.2
62.5°	3393.5	1266.4	81.8	48.9	35.9	27.5	20.6	16.8	13.8	10.7	9.2
65°	4032.5	1572.2	67.3	40.5	29.0	22.9	17.6	13.8	10.7	7.6	6.9
67.5°	4492.6	1651.7	54.3	32.9	23.7	17.6	14.5	10.7	7.6	5.4	4.6
70°	3927.7	1186.2	42.0	26.8	19.9	13.8	11.5	8.4	5.4	3.8	3.1
72.5°	2959.4	775.0	31.3	20.6	15.3	11.5	8.4	6.9	4.6	3.1	2.3
75°	2085.8	447.9	22.9	15.3	10.7	8.4	6.9	5.4	3.8	2.3	2.3
77.5°	1069.3	185.0	16.1	10.7	7.6	5.4	4.6	3.1	3.1	2.3	1.5
80°	324.8	61.1	9.2	6.9	5.4	3.8	2.3	2.3	2.3	1.5	0.8
82.5°	74.1	19.9	5.4	5.4	3.8	3.1	2.3	0.8	0.8	0.0	0.0
85°	19.1	6.1	4.6	3.8	3.8	3.1	1.5	0.8	0.0	0.0	0.0
87.5°	6.9	3.8	3.8	3.8	3.1	2.3	1.5	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)