

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: P636569

Luminaire Tested: GWS-SA4B-722-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8598.5 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

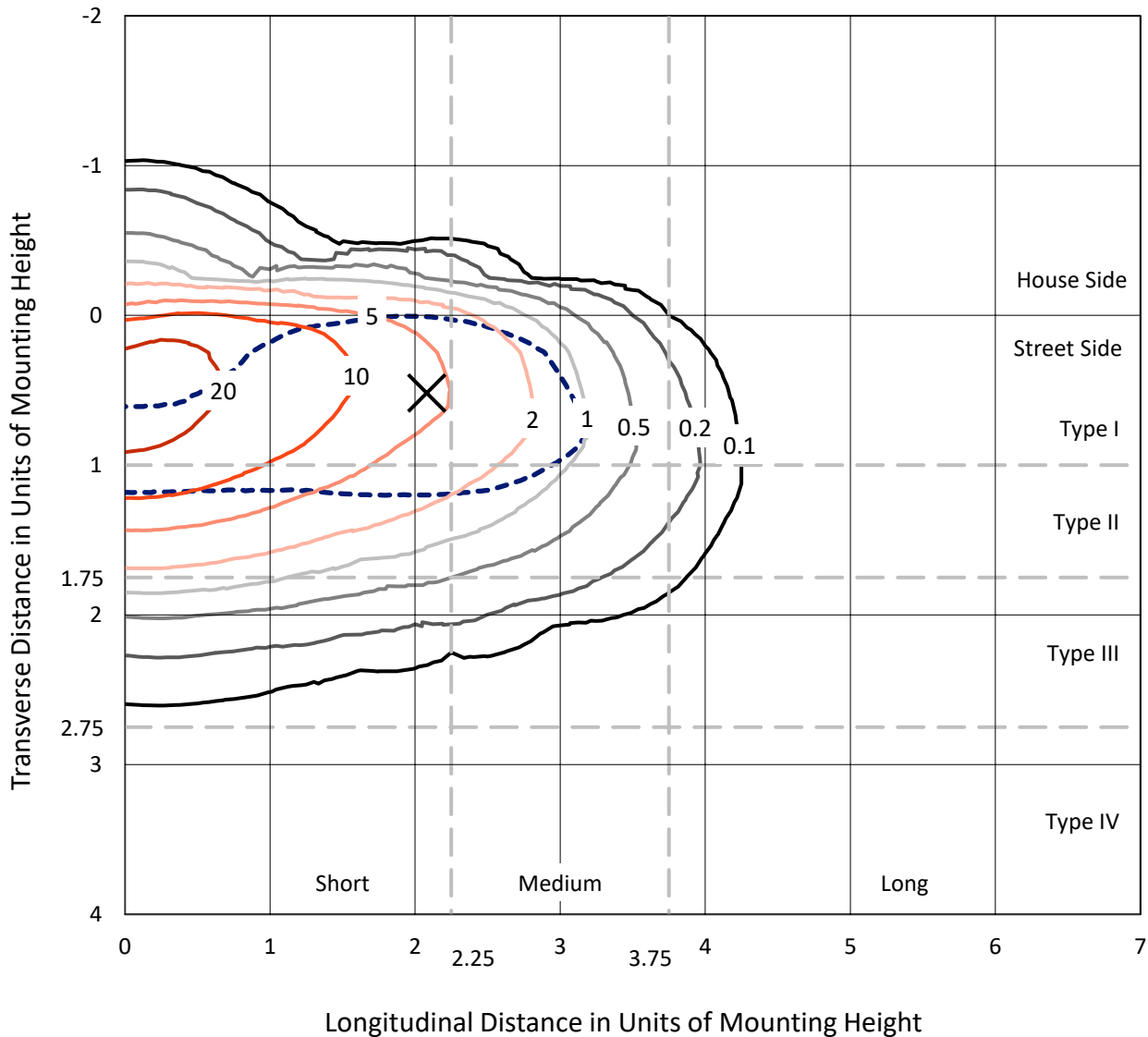
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

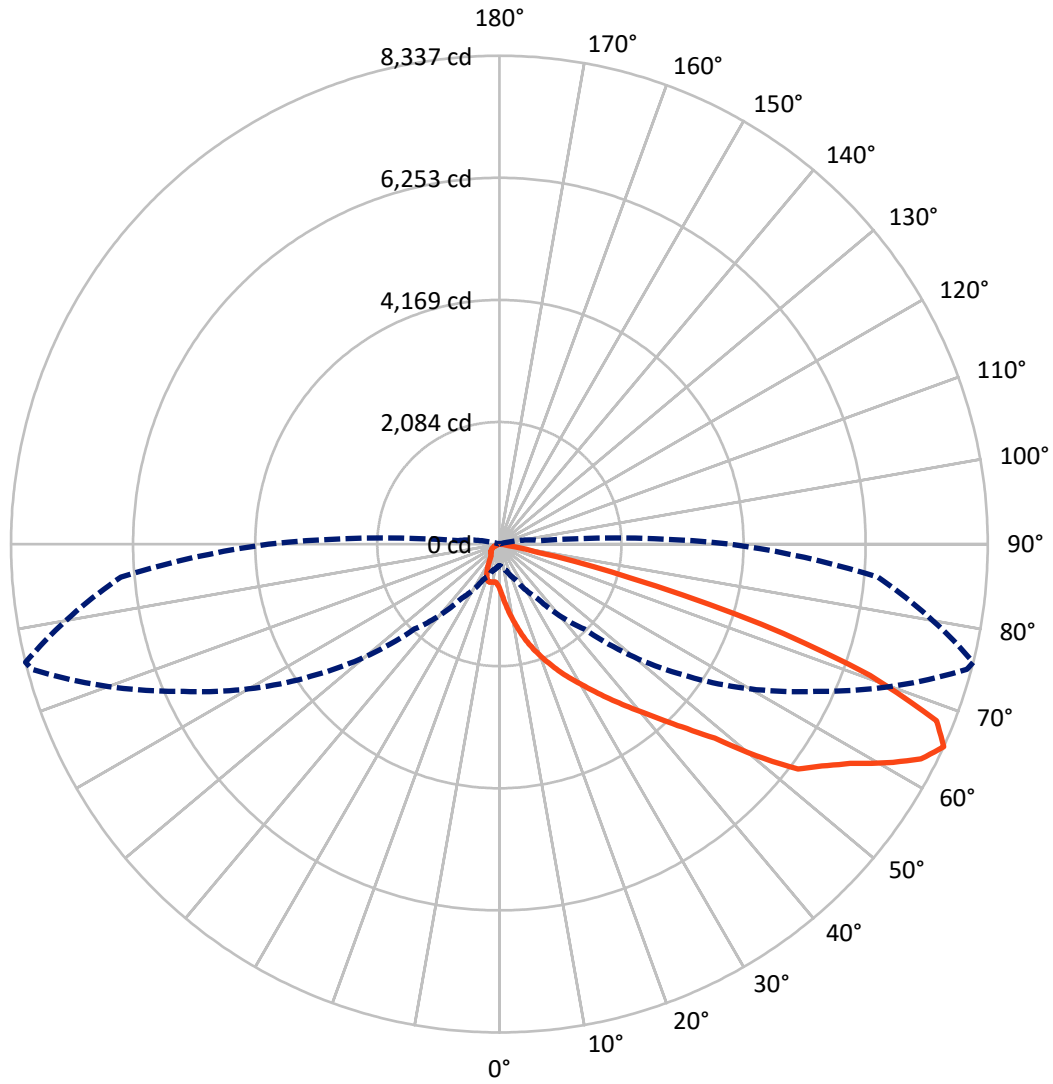
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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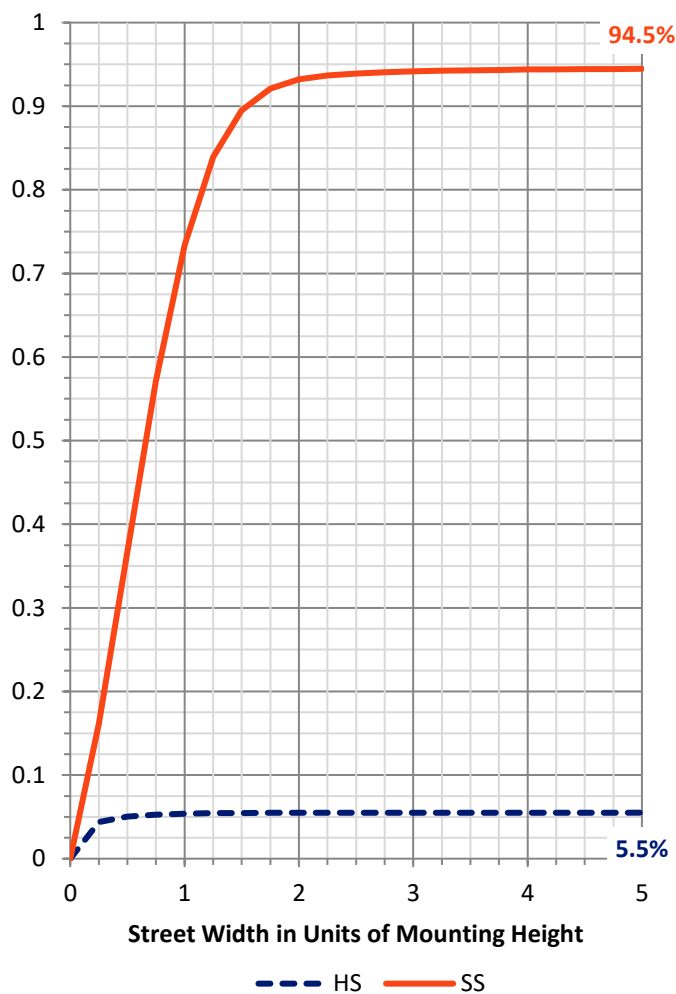
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	475.4	0.0	475.4
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	8123.1	0.0	8123.1
	% Fixture	94.5	0.0	94.5
Total	Lumens	8598.5	0.0	8598.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	1.1
10°-20°	351.4	4.1
20°-30°	716.9	8.3
30°-40°	1275.1	14.8
40°-50°	1884.9	21.9
50°-60°	2158.1	25.1
60°-70°	1646.5	19.1
70°-80°	461.2	5.4
80°-90°	11.6	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°	8598.5	100.0
0°-180°	8598.5	100.0

Coefficient of Utilization



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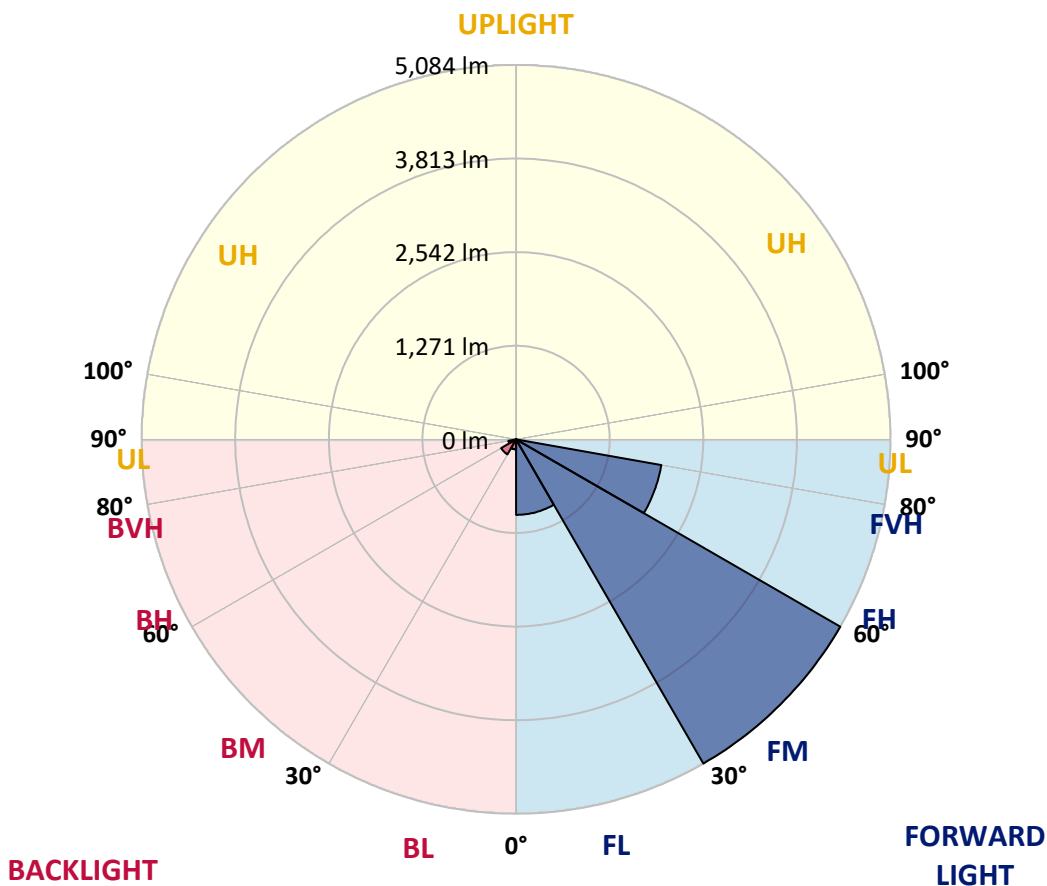
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1025.3	11.9			
FM (30°-60°)	5083.6	59.1			
FH (60°-80°)	2003.2	23.3			G2/5000
FVH (80°-90°)	10.9	0.1			G1/100
BL (0°-30°)	135.7	1.6	B1/500		
BM (30°-60°)	234.6	2.7	B1/1000		
BH (60°-80°)	104.5	1.2	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	761.3	761.3	761.3	761.3	761.3	761.3	761.3	761.3	761.3	761.3	761.3
2.5°	1173.3	1190.8	1177.1	1154.2	1109.8	1067.0	1012.0	936.3	875.9	868.3	811.7
5°	1584.5	1582.9	1553.1	1523.3	1476.7	1403.3	1292.5	1151.9	1016.6	1005.1	878.2
7.5°	1829.1	1831.4	1814.5	1791.6	1745.7	1670.1	1554.7	1385.0	1187.0	1164.1	969.2
10°	2034.7	2033.9	2021.7	2011.0	1969.7	1919.3	1795.4	1608.9	1370.5	1334.5	1070.8
12.5°	2189.1	2194.4	2200.5	2211.2	2193.7	2144.0	2027.0	1823.7	1556.2	1516.4	1187.0
15°	2311.4	2312.9	2335.8	2377.1	2391.6	2365.6	2259.4	2031.6	1739.6	1705.2	1320.8
17.5°	2348.0	2351.1	2390.1	2465.8	2542.2	2556.7	2476.5	2241.0	1920.0	1883.3	1450.7
20°	2425.2	2432.1	2461.2	2527.7	2624.0	2701.9	2670.6	2452.8	2100.4	2052.2	1583.7
22.5°	2668.3	2672.1	2662.2	2670.6	2720.3	2810.5	2829.6	2657.6	2285.4	2234.2	1727.4
25°	3086.4	3087.9	3018.4	2952.6	2915.2	2932.0	2974.0	2846.4	2468.8	2418.4	1861.2
27.5°	3520.5	3525.9	3442.6	3331.0	3197.2	3120.8	3108.6	3019.1	2653.8	2598.0	1993.4
30°	3929.5	3929.5	3841.6	3705.5	3526.7	3377.6	3289.7	3193.4	2851.7	2790.6	2128.7
32.5°	4297.1	4294.1	4181.7	4034.2	3857.6	3694.0	3509.1	3375.3	3071.9	3003.8	2284.6
35°	4600.6	4592.9	4465.3	4323.9	4135.1	4013.5	3807.2	3571.0	3310.3	3242.3	2445.1
37.5°	4829.9	4821.4	4704.5	4554.7	4379.7	4300.9	4128.2	3805.6	3561.8	3499.9	2623.2
40°	4954.4	4937.6	4856.6	4745.0	4598.3	4529.5	4457.6	4096.9	3857.6	3780.4	2833.4
42.5°	4991.1	4971.3	4917.8	4865.8	4777.1	4722.8	4800.0	4425.5	4182.5	4116.0	3073.4
45°	4882.6	4871.1	4866.5	4904.0	4920.0	4935.3	5125.7	4789.3	4540.9	4490.5	3375.3
47.5°	4621.2	4618.1	4658.6	4814.6	4984.2	5145.5	5479.5	5238.0	5005.7	4951.4	3797.2
50°	4138.1	4169.5	4282.6	4556.2	4895.6	5264.8	5810.5	5860.2	5757.8	5678.3	4347.6
52.5°	3383.0	3443.3	3697.1	4112.9	4600.6	5231.1	5963.4	6358.5	6463.2	6380.7	4742.0
55°	2654.5	2711.1	2937.4	3464.7	4115.2	4975.1	5970.2	6530.5	6759.0	6682.6	5008.7
57.5°	1977.3	2029.3	2234.9	2739.4	3454.8	4471.4	5806.7	6626.0	7109.9	7061.0	5429.9
60°	1292.5	1343.7	1529.4	1970.5	2679.8	3737.6	5403.9	6606.2	7587.6	7583.0	5947.3
62.5°	716.9	757.5	892.0	1235.9	1870.3	2894.5	4771.0	6406.7	8050.0	8079.1	6373.8
65°	366.9	392.9	474.7	679.5	1132.0	2052.2	3938.6	5949.6	8264.0	8337.4	6486.2
67.5°	240.0	248.4	268.3	353.1	606.1	1291.0	2964.1	5216.6	7962.9	8048.5	6109.4
70°	194.9	201.8	213.3	235.4	312.6	685.6	1946.8	4166.4	6653.6	6711.7	4865.0
72.5°	142.9	152.1	174.3	188.8	225.5	376.1	1012.7	2734.8	4569.2	4671.6	3057.4
75°	105.5	110.8	129.2	149.0	184.2	237.7	387.5	1437.7	2359.5	2299.9	1284.1
77.5°	63.4	67.3	82.5	95.5	131.5	148.3	135.3	531.2	717.7	674.9	310.3
80°	31.3	35.2	54.3	71.8	84.1	59.6	56.6	148.3	159.7	159.7	78.0
82.5°	10.7	13.8	29.0	47.4	41.3	22.9	26.8	38.2	42.8	45.1	22.9
85°	0.0	0.0	6.9	13.8	6.1	3.1	6.9	8.4	10.7	11.5	7.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	3.1	3.1
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°	761.3	761.3	761.3	761.3	761.3	761.3	761.3	761.3	761.3	761.3	761.3
2.5°	781.2	745.2	691.0	642.0	604.6	569.4	542.7	521.3	517.5	505.2	506.8
5°	816.3	751.3	651.2	574.0	519.7	483.1	452.5	429.6	419.6	409.7	402.0
7.5°	870.6	776.6	635.9	541.9	478.5	421.9	374.5	336.3	318.0	306.5	298.9
10°	937.1	811.7	636.7	522.8	428.8	342.4	277.5	235.4	215.5	209.4	208.7
12.5°	1016.6	856.1	642.8	491.5	356.9	254.5	205.6	186.5	180.4	175.0	175.0
15°	1100.6	905.7	642.8	434.1	272.1	198.7	178.1	165.9	158.2	155.2	153.6
17.5°	1189.3	952.4	627.5	355.4	208.7	175.0	158.2	146.8	140.6	136.1	134.5
20°	1284.1	996.7	589.3	272.1	178.9	156.7	140.6	129.2	123.1	118.5	118.5
22.5°	1380.4	1038.0	527.4	209.4	158.2	139.1	123.8	113.1	107.0	102.4	102.4
25°	1469.8	1065.5	447.9	172.7	142.9	123.8	110.1	99.4	92.5	89.4	87.9
27.5°	1553.1	1083.1	360.0	152.1	128.4	110.8	96.3	86.4	81.0	78.7	77.2
30°	1639.5	1087.7	275.2	138.3	116.2	97.8	84.1	76.4	71.8	68.8	68.8
32.5°	1723.6	1082.3	210.2	126.9	105.5	86.4	74.9	68.0	64.2	61.9	61.1
35°	1809.2	1057.8	170.4	116.9	94.8	75.7	66.5	61.1	58.9	55.8	55.8
37.5°	1902.4	1025.0	148.3	107.0	84.1	68.0	59.6	55.8	52.7	50.4	49.7
40°	2018.6	986.8	136.1	98.6	74.1	61.1	53.5	49.7	47.4	45.1	44.3
42.5°	2156.2	949.3	129.9	89.4	66.5	54.3	48.2	43.6	41.3	38.2	37.5
45°	2351.1	940.9	123.1	79.5	59.6	48.9	42.0	37.5	34.4	32.1	31.3
47.5°	2664.5	964.6	111.6	68.8	52.7	42.8	35.9	32.1	28.3	26.0	24.5
50°	2975.6	958.5	100.1	59.6	46.6	36.7	30.6	26.8	22.9	20.6	19.9
52.5°	3145.3	929.4	89.4	52.7	40.5	31.3	26.0	21.4	19.1	16.8	16.1
55°	3298.9	918.0	78.7	45.9	34.4	27.5	21.4	17.6	16.1	13.8	13.0
57.5°	3600.0	944.7	69.6	39.7	29.8	23.7	18.3	14.5	13.0	10.7	9.9
60°	3914.9	947.8	59.6	34.4	26.0	19.9	14.5	11.5	9.9	7.6	6.9
62.5°	4079.3	870.6	48.9	29.0	21.4	16.8	12.2	9.2	7.6	4.6	4.6
65°	3941.7	704.0	41.3	23.7	16.8	13.0	9.2	6.9	4.6	2.3	0.8
67.5°	3488.4	500.6	34.4	19.1	12.2	9.2	6.9	4.6	0.8	0.0	0.0
70°	2554.4	285.9	26.8	13.8	9.2	6.1	4.6	2.3	0.0	0.0	0.0
72.5°	1570.0	152.9	19.9	9.2	6.9	4.6	3.8	1.5	0.0	0.0	0.0
75°	595.4	73.4	12.2	6.1	5.4	3.8	2.3	0.8	0.0	0.0	0.0
77.5°	161.3	35.9	6.9	4.6	3.8	2.3	1.5	0.0	0.0	0.0	0.0
80°	42.0	16.8	4.6	3.1	2.3	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	14.5	7.6	2.3	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0
85°	6.1	3.1	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.8	0.8	0.8	0.8	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)