

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: P632609

Luminaire Tested: GWS-SA2D-722-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632609  
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-SA2D-722-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

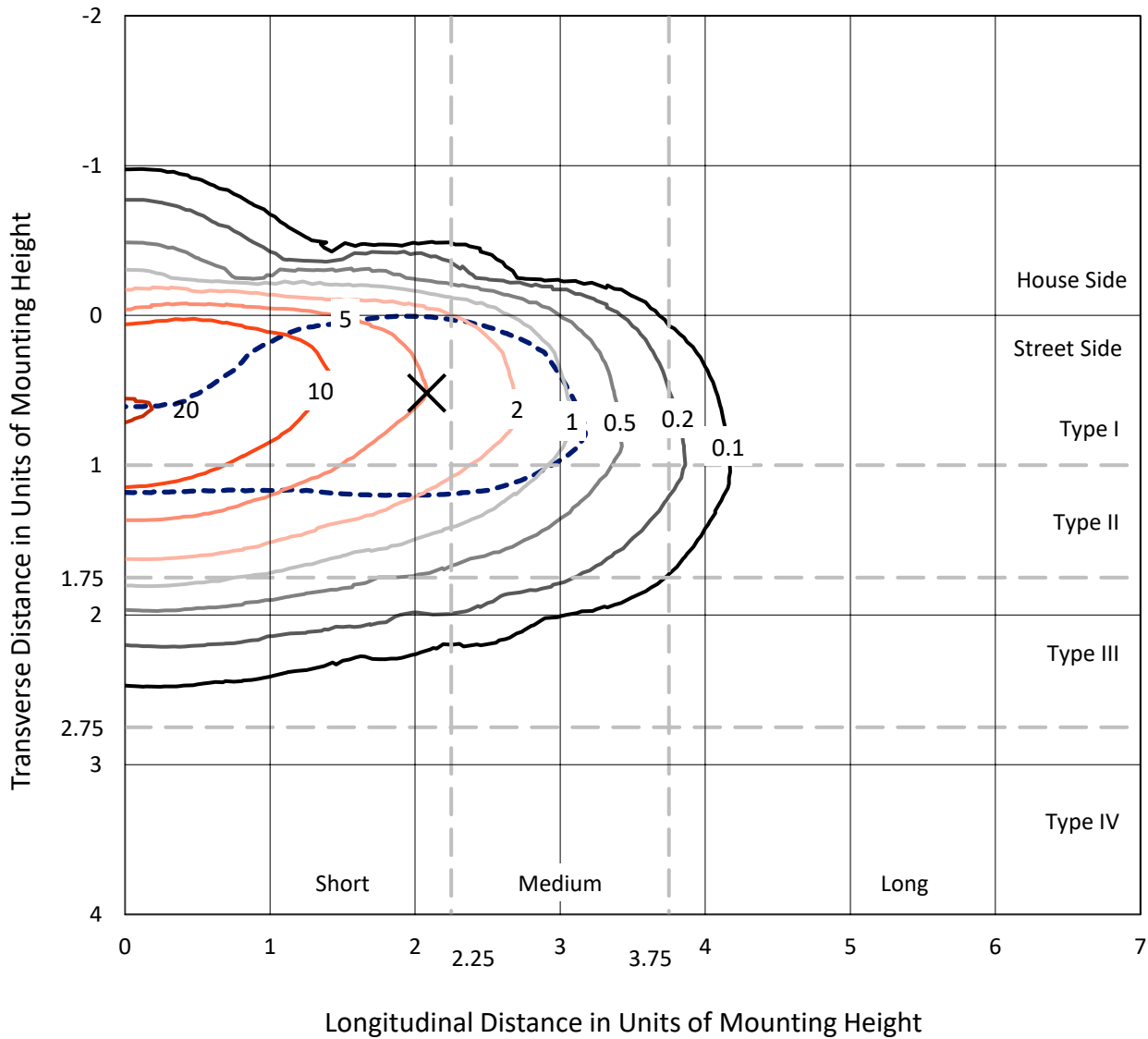
Lumens per Lamp: N/A  
Luminaire Lumens: 6936.2 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

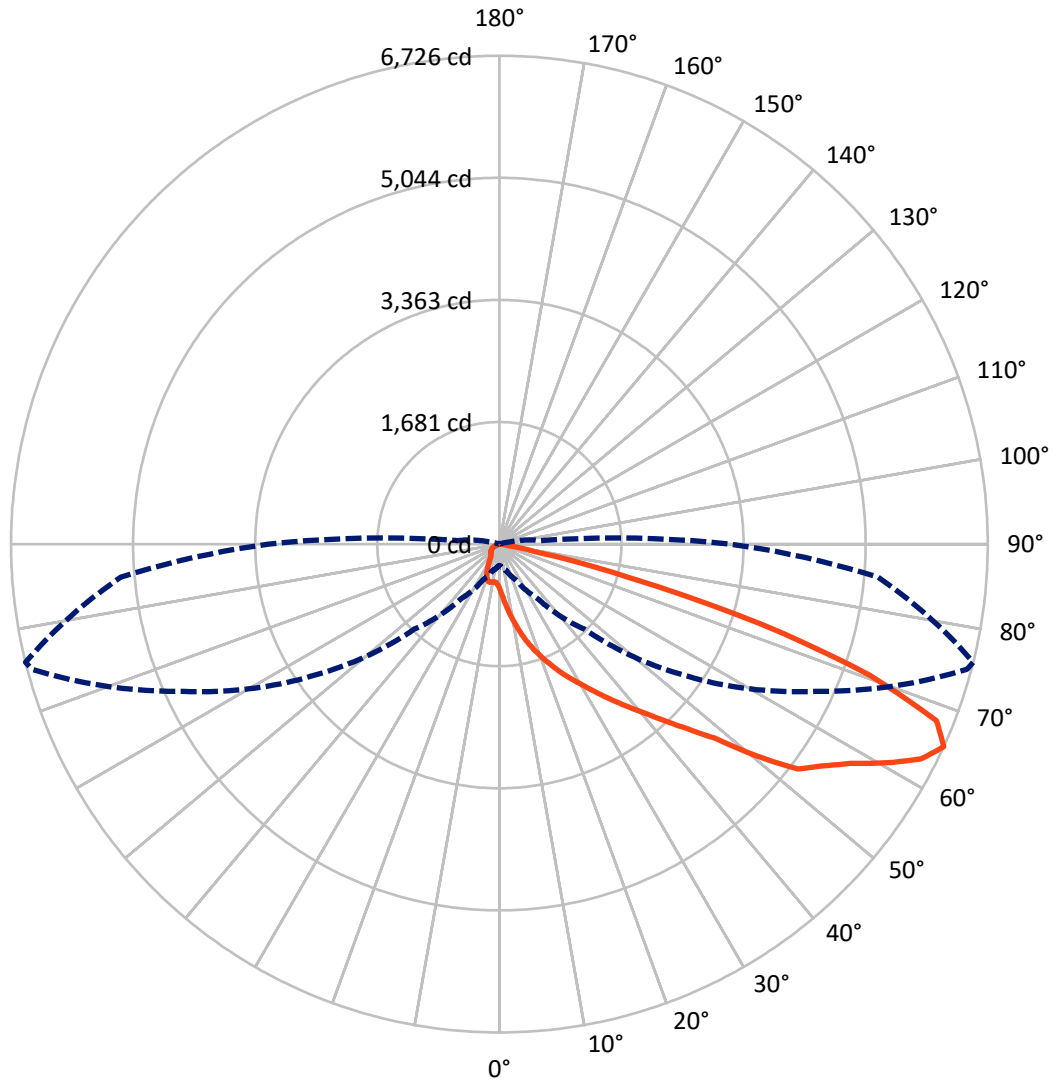
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.8 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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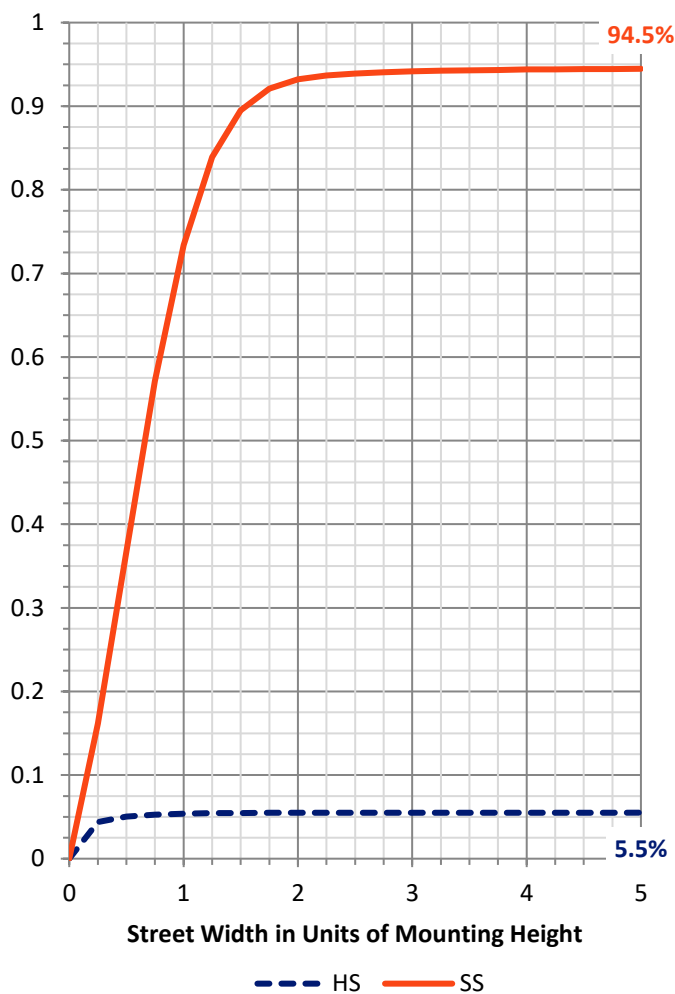
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	383.5	0.0	383.5
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	6552.7	0.0	6552.7
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	6936.2	0.0	6936.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.7	1.1
10°-20°	283.5	4.1
20°-30°	578.3	8.3
30°-40°	1028.6	14.8
40°-50°	1520.5	21.9
50°-60°	1740.9	25.1
60°-70°	1328.2	19.1
70°-80°	372.1	5.4
80°-90°	9.4	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°	6936.2	100.0
0°-180°	6936.2	100.0

**Coefficient of Utilization**



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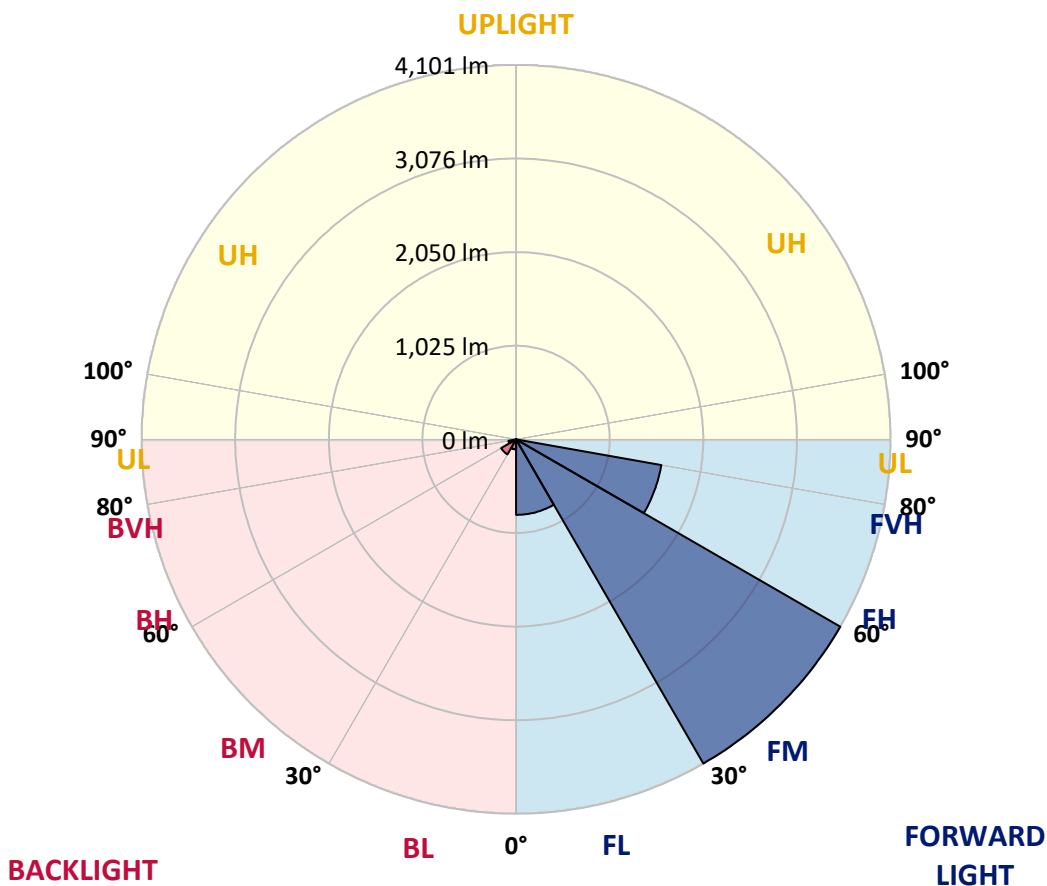
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	827.1	11.9			
FM (30°-60°)	4100.8	59.1			
FH (60°-80°)	1616.0	23.3			G1/1800
FVH (80°-90°)	8.8	0.1			G0/10
BL (0°-30°)	109.4	1.6	B0/110		
BM (30°-60°)	189.2	2.7	B0/220		
BH (60°-80°)	84.3	1.2	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1
2.5°	946.4	960.6	949.5	931.0	895.3	860.7	816.3	755.3	706.6	700.4	654.8
5°	1278.2	1276.9	1252.9	1228.8	1191.2	1132.0	1042.6	929.2	820.0	810.8	708.4
7.5°	1475.5	1477.3	1463.7	1445.2	1408.3	1347.2	1254.1	1117.2	957.5	939.0	781.8
10°	1641.3	1640.7	1630.8	1622.2	1588.9	1548.2	1448.3	1297.9	1105.5	1076.5	863.8
12.5°	1765.9	1770.2	1775.1	1783.7	1769.6	1729.5	1635.2	1471.1	1255.3	1223.3	957.5
15°	1864.5	1865.7	1884.2	1917.5	1929.3	1908.3	1822.6	1638.9	1403.3	1375.6	1065.4
17.5°	1894.1	1896.6	1928.0	1989.1	2050.7	2062.4	1997.7	1807.8	1548.8	1519.2	1170.3
20°	1956.4	1961.9	1985.4	2039.0	2116.7	2179.6	2154.3	1978.6	1694.3	1655.5	1277.5
22.5°	2152.5	2155.5	2147.5	2154.3	2194.4	2267.1	2282.6	2143.8	1843.6	1802.2	1393.5
25°	2489.7	2491.0	2434.8	2381.8	2351.6	2365.2	2399.1	2296.1	1991.5	1950.8	1501.4
27.5°	2839.9	2844.3	2777.0	2687.0	2579.1	2517.5	2507.6	2435.5	2140.7	2095.7	1608.0
30°	3169.8	3169.8	3098.9	2989.1	2844.9	2724.6	2653.7	2576.0	2300.4	2251.1	1717.2
32.5°	3466.4	3463.9	3373.3	3254.3	3111.8	2979.9	2830.7	2722.8	2478.0	2423.1	1842.9
35°	3711.2	3705.0	3602.0	3488.0	3335.7	3237.6	3071.2	2880.6	2670.4	2615.5	1972.4
37.5°	3896.1	3889.3	3795.0	3674.2	3533.0	3469.5	3330.1	3069.9	2873.2	2823.3	2116.1
40°	3996.6	3983.1	3917.7	3827.7	3709.3	3653.8	3595.9	3304.8	3111.8	3049.6	2285.6
42.5°	4026.2	4010.2	3967.0	3925.1	3853.6	3809.8	3872.1	3570.0	3373.9	3320.2	2479.2
45°	3938.7	3929.4	3925.7	3955.9	3968.9	3981.2	4134.7	3863.4	3663.1	3622.4	2722.8
47.5°	3727.8	3725.3	3758.0	3883.8	4020.7	4150.8	4420.2	4225.4	4037.9	3994.2	3063.1
50°	3338.1	3363.4	3454.7	3675.4	3949.1	4247.0	4687.2	4727.3	4644.6	4580.5	3507.1
52.5°	2729.0	2777.7	2982.4	3317.8	3711.2	4219.8	4810.5	5129.3	5213.7	5147.2	3825.2
55°	2141.4	2187.0	2369.5	2794.9	3319.6	4013.3	4816.1	5268.0	5452.4	5390.7	4040.4
57.5°	1595.1	1637.0	1802.9	2209.8	2786.9	3607.0	4684.1	5345.1	5735.4	5695.9	4380.1
60°	1042.6	1083.9	1233.8	1589.5	2161.7	3015.0	4359.2	5329.0	6120.7	6117.0	4797.6
62.5°	578.3	611.0	719.5	997.0	1508.8	2335.0	3848.6	5168.1	6493.7	6517.2	5141.6
65°	296.0	316.9	382.9	548.1	913.1	1655.5	3177.2	4799.4	6666.4	6725.6	5232.2
67.5°	193.6	200.4	216.4	284.9	488.9	1041.4	2391.1	4208.1	6423.5	6492.5	4928.3
70°	157.2	162.8	172.0	189.9	252.2	553.1	1570.4	3360.9	5367.3	5414.1	3924.5
72.5°	115.3	122.7	140.6	152.3	181.9	303.4	817.0	2206.1	3685.9	3768.5	2466.3
75°	85.1	89.4	104.2	120.2	148.6	191.8	312.6	1159.8	1903.4	1855.3	1035.8
77.5°	51.2	54.3	66.6	77.1	106.1	119.6	109.1	428.5	579.0	544.4	250.3
80°	25.3	28.4	43.8	58.0	67.8	48.1	45.6	119.6	128.9	128.9	62.9
82.5°	8.6	11.1	23.4	38.2	33.3	18.5	21.6	30.8	34.5	36.4	18.5
85°	0.0	0.0	5.5	11.1	4.9	2.5	5.5	6.8	8.6	9.2	6.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.8	2.5	2.5
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°	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1	614.1
2.5°	630.1	601.2	557.4	517.9	487.7	459.3	437.8	420.5	417.4	407.6	408.8
5°	658.5	606.1	525.3	463.0	419.3	389.7	365.0	346.5	338.5	330.5	324.3
7.5°	702.3	626.4	513.0	437.2	386.0	340.3	302.1	271.3	256.5	247.2	241.1
10°	755.9	654.8	513.6	421.7	345.9	276.2	223.8	189.9	173.9	168.9	168.3
12.5°	820.0	690.6	518.5	396.5	287.9	205.3	165.9	150.4	145.5	141.2	141.2
15°	887.9	730.6	518.5	350.2	219.5	160.3	143.7	133.8	127.6	125.2	123.9
17.5°	959.4	768.2	506.2	286.7	168.3	141.2	127.6	118.4	113.4	109.7	108.5
20°	1035.8	804.0	475.4	219.5	144.3	126.4	113.4	104.2	99.3	95.6	95.6
22.5°	1113.5	837.3	425.4	168.9	127.6	112.2	99.9	91.3	86.3	82.6	82.6
25°	1185.7	859.5	361.3	139.3	115.3	99.9	88.8	80.2	74.6	72.1	70.9
27.5°	1252.9	873.7	290.4	122.7	103.6	89.4	77.7	69.7	65.4	63.5	62.3
30°	1322.5	877.4	222.0	111.6	93.7	78.9	67.8	61.7	58.0	55.5	55.5
32.5°	1390.4	873.1	169.6	102.4	85.1	69.7	60.4	54.9	51.8	49.9	49.3
35°	1459.4	853.3	137.5	94.3	76.5	61.0	53.6	49.3	47.5	45.0	45.0
37.5°	1534.7	826.8	119.6	86.3	67.8	54.9	48.1	45.0	42.5	40.7	40.1
40°	1628.4	796.0	109.7	79.5	59.8	49.3	43.2	40.1	38.2	36.4	35.8
42.5°	1739.4	765.8	104.8	72.1	53.6	43.8	38.8	35.1	33.3	30.8	30.2
45°	1896.6	759.0	99.3	64.1	48.1	39.5	33.9	30.2	27.7	25.9	25.3
47.5°	2149.4	778.1	90.0	55.5	42.5	34.5	29.0	25.9	22.8	21.0	19.7
50°	2400.3	773.2	80.8	48.1	37.6	29.6	24.7	21.6	18.5	16.6	16.0
52.5°	2537.2	749.8	72.1	42.5	32.7	25.3	21.0	17.3	15.4	13.6	12.9
55°	2661.1	740.5	63.5	37.0	27.7	22.2	17.3	14.2	12.9	11.1	10.5
57.5°	2904.1	762.1	56.1	32.1	24.0	19.1	14.8	11.7	10.5	8.6	8.0
60°	3158.1	764.6	48.1	27.7	21.0	16.0	11.7	9.2	8.0	6.2	5.5
62.5°	3290.7	702.3	39.5	23.4	17.3	13.6	9.9	7.4	6.2	3.7	3.7
65°	3179.7	567.9	33.3	19.1	13.6	10.5	7.4	5.5	3.7	1.8	0.6
67.5°	2814.0	403.9	27.7	15.4	9.9	7.4	5.5	3.7	0.6	0.0	0.0
70°	2060.6	230.6	21.6	11.1	7.4	4.9	3.7	1.8	0.0	0.0	0.0
72.5°	1266.4	123.3	16.0	7.4	5.5	3.7	3.1	1.2	0.0	0.0	0.0
75°	480.3	59.2	9.9	4.9	4.3	3.1	1.8	0.6	0.0	0.0	0.0
77.5°	130.1	29.0	5.5	3.7	3.1	1.8	1.2	0.0	0.0	0.0	0.0
80°	33.9	13.6	3.7	2.5	1.8	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	11.7	6.2	1.8	1.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0
85°	4.9	2.5	1.2	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.6	0.6	0.6	0.6	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)