

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: P632943

Luminaire Tested: GWS-SA2D-760-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632943  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-760-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

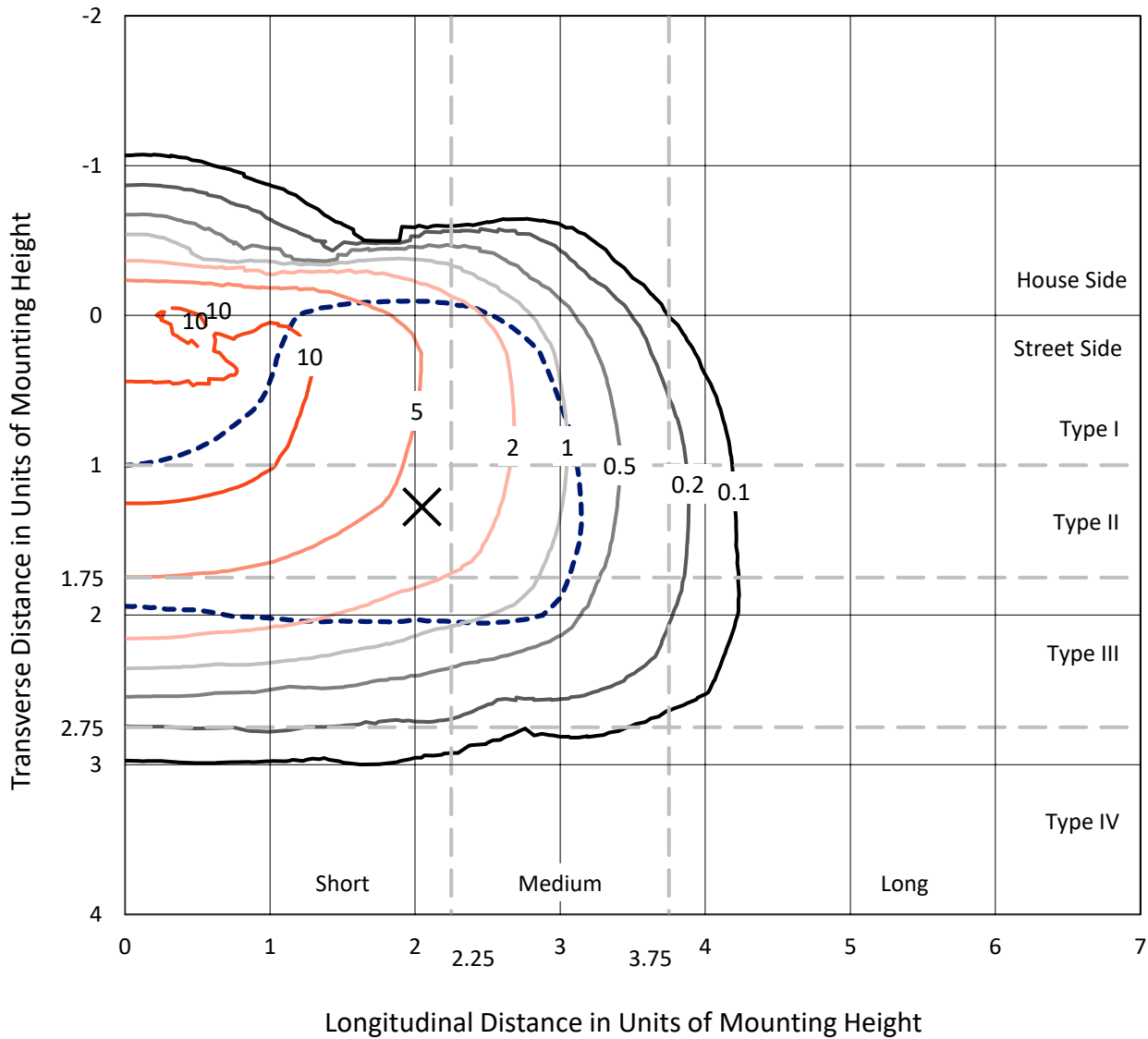
Lumens per Lamp: N/A  
Luminaire Lumens: 8648.3 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): 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

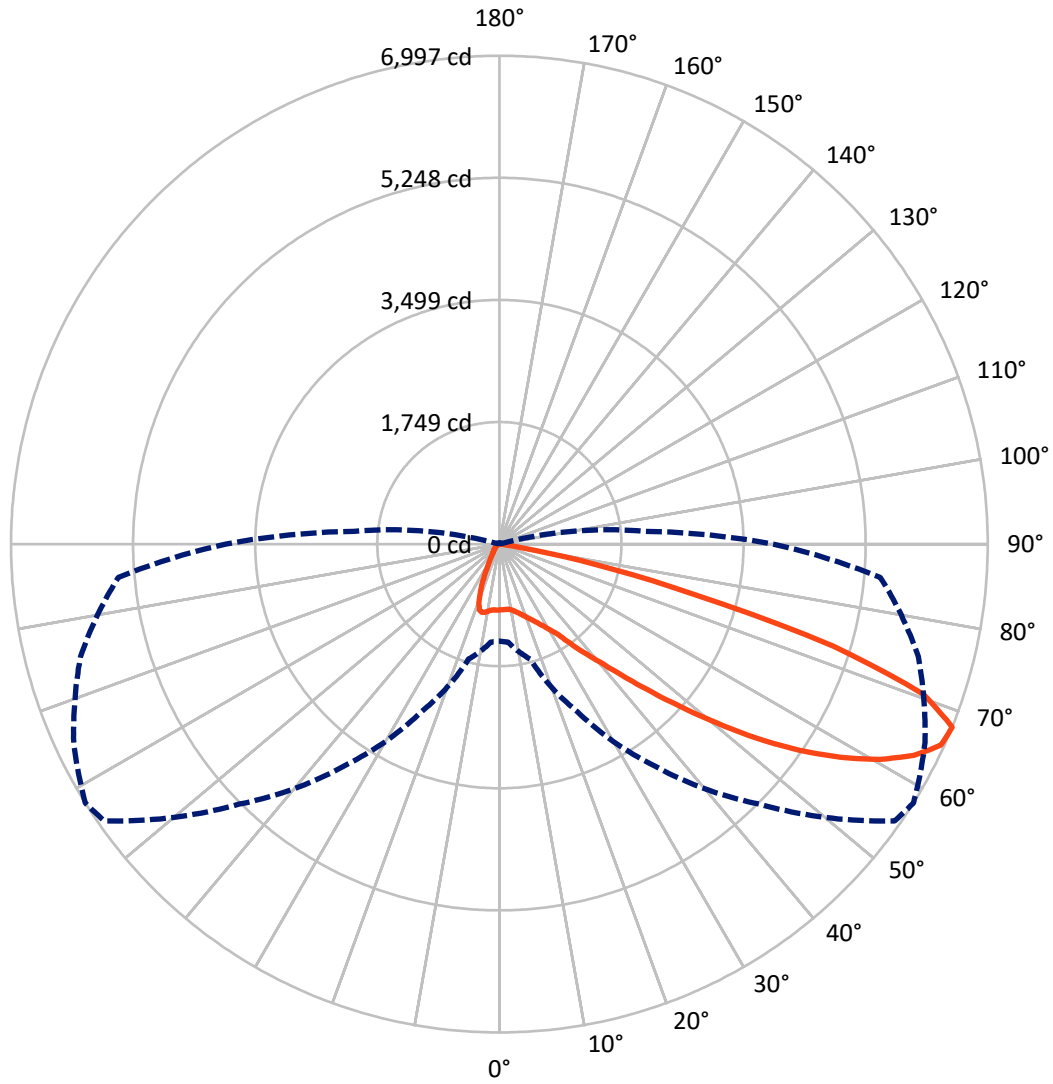
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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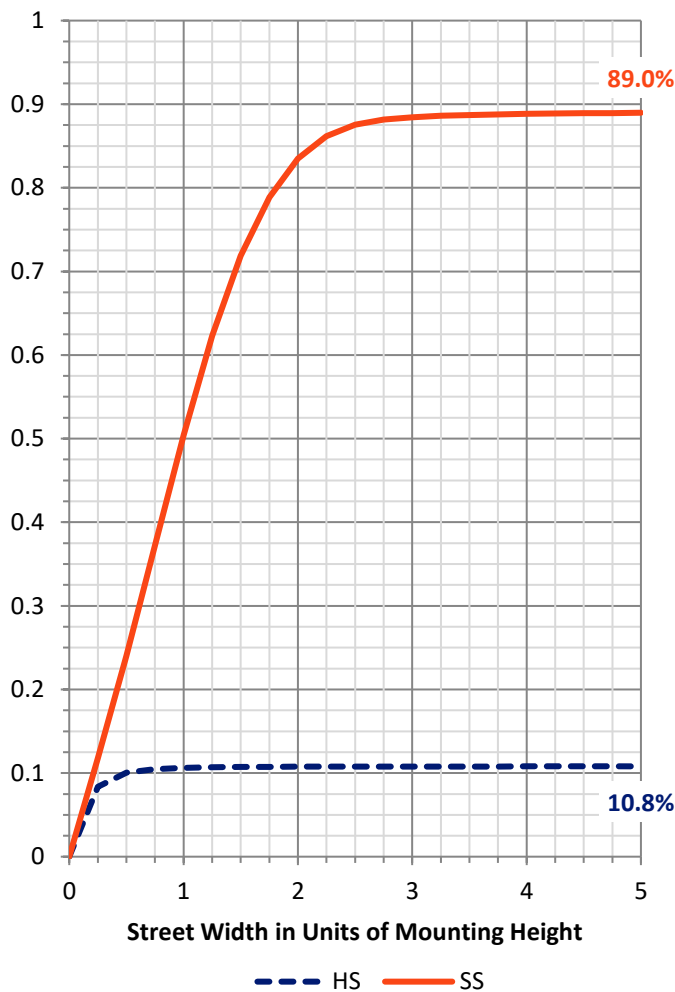
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	943.5	0.0	943.5
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	7704.8	0.0	7704.8
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	8648.3	0.0	8648.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.5	1.0
10°-20°	248.6	2.9
20°-30°	433.9	5.0
30°-40°	774.8	9.0
40°-50°	1416.2	16.4
50°-60°	2355.4	27.2
60°-70°	2558.3	29.6
70°-80°	751.1	8.7
80°-90°	21.4	0.2
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°	8648.3	100.0
0°-180°	8648.3	100.0

**Coefficient of Utilization**



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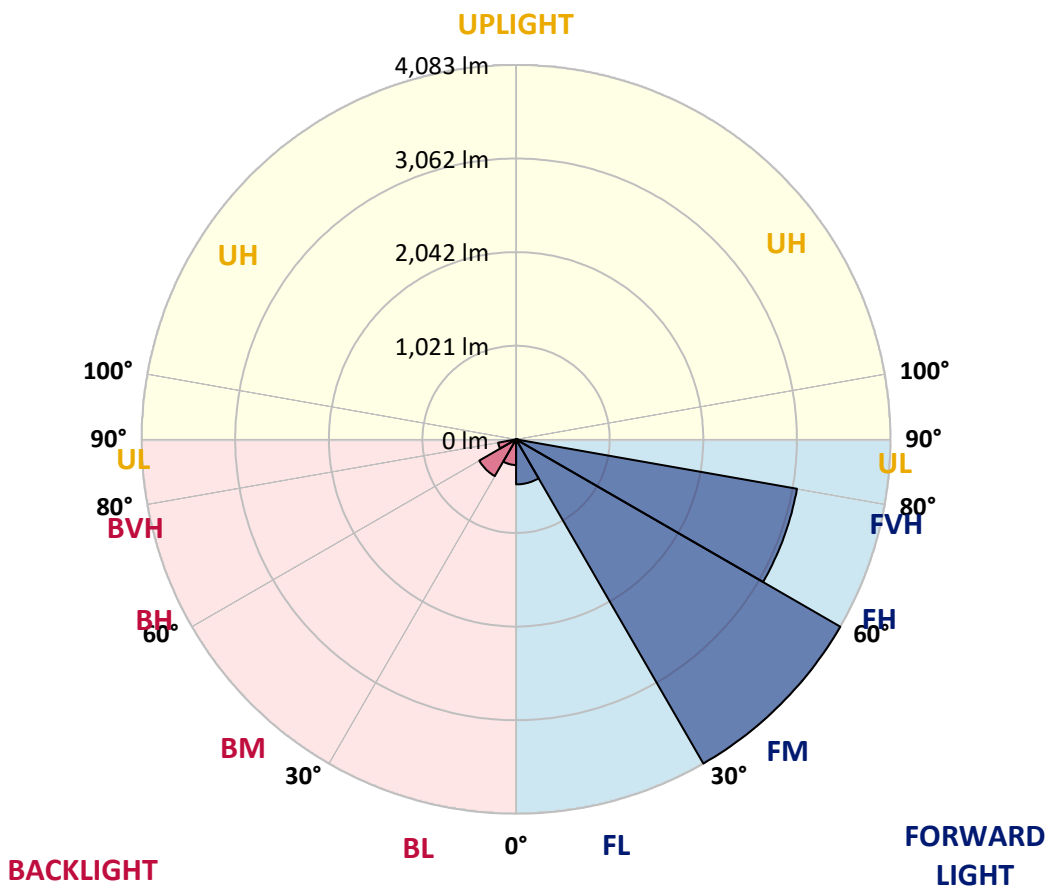
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	491.1	5.7			
FM (30°-60°)	4083.0	47.2			
FH (60°-80°)	3110.3	36.0			G2/5000
FVH (80°-90°)	20.3	0.2			G1/100
BL (0°-30°)	279.9	3.2	B1/500		
BM (30°-60°)	463.4	5.4	B1/1000		
BH (60°-80°)	199.2	2.3	B1/500		G1/500
BVH (80°-90°)	1.0	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	942.4	942.4	942.4	942.4	942.4	942.4	942.4	942.4	942.4	942.4	942.4
2.5°	924.7	923.0	923.0	929.7	930.6	934.0	941.6	942.4	946.6	944.9	939.0
5°	876.5	877.4	882.5	894.3	904.4	917.1	935.7	939.9	949.2	954.2	950.9
7.5°	831.8	832.6	840.2	858.8	878.2	903.6	934.0	942.4	961.0	974.5	975.3
10°	814.9	814.0	821.6	842.8	868.1	903.6	947.5	958.5	986.3	1010.0	1014.2
12.5°	820.0	819.1	826.7	846.1	874.0	918.8	971.1	986.3	1021.8	1058.1	1065.7
15°	840.2	839.4	844.5	860.5	890.9	937.3	1001.5	1024.3	1069.1	1113.0	1124.8
17.5°	901.0	896.8	891.7	893.4	911.2	959.3	1040.4	1068.2	1124.0	1176.3	1186.5
20°	1009.1	998.1	984.6	966.9	958.5	991.4	1085.1	1117.2	1184.8	1244.7	1246.4
22.5°	1172.1	1167.9	1136.6	1085.1	1048.8	1049.7	1137.5	1174.6	1257.4	1323.3	1314.0
25°	1399.3	1396.7	1348.6	1264.1	1169.6	1137.5	1204.2	1242.2	1343.5	1413.6	1384.1
27.5°	1681.3	1663.6	1607.0	1493.0	1352.0	1251.5	1288.6	1322.4	1434.7	1500.6	1444.9
30°	1927.0	1927.9	1874.7	1755.6	1596.9	1422.9	1391.7	1421.2	1518.3	1587.6	1520.0
32.5°	2163.5	2171.1	2112.8	2005.6	1831.6	1646.7	1539.4	1544.5	1625.6	1700.7	1618.8
35°	2383.0	2388.9	2348.4	2257.2	2095.1	1880.6	1745.5	1742.9	1786.9	1863.7	1756.5
37.5°	2628.8	2634.7	2595.0	2513.1	2361.1	2148.3	1979.4	1976.0	1993.7	2056.2	1933.8
40°	2890.6	2901.5	2857.6	2788.4	2643.1	2463.3	2251.3	2220.9	2203.2	2276.6	2163.5
42.5°	3155.7	3172.6	3157.4	3088.2	2964.0	2815.4	2604.3	2557.0	2519.0	2611.0	2491.1
45°	3485.0	3505.3	3498.6	3445.4	3349.1	3228.3	3029.0	2974.2	2956.4	3041.7	2899.0
47.5°	3801.7	3823.7	3848.2	3836.3	3767.9	3712.2	3491.0	3459.7	3454.6	3545.8	3324.6
50°	4037.3	4057.6	4151.3	4218.9	4265.3	4253.5	4061.8	4015.4	4007.8	4066.0	3773.8
52.5°	4206.2	4225.6	4354.8	4565.9	4736.5	4829.4	4636.0	4625.9	4584.5	4564.3	4194.4
55°	4337.1	4364.1	4500.1	4819.3	5163.0	5369.0	5248.3	5211.9	5105.5	4989.0	4584.5
57.5°	4363.3	4374.3	4565.9	4996.6	5494.0	5827.6	5827.6	5764.2	5559.0	5397.7	5035.5
60°	4128.5	4162.3	4421.5	4982.3	5635.9	6127.3	6308.0	6264.1	5987.2	5788.7	5469.5
62.5°	3607.5	3645.5	3961.3	4638.6	5494.0	6189.0	6672.0	6665.2	6352.8	6112.1	5829.2
65°	2766.4	2794.3	3069.6	3880.2	4894.4	5951.7	6932.1	6950.7	6641.6	6325.8	5953.4
67.5°	1390.0	1409.4	1706.6	2650.7	3879.4	5268.5	6914.4	6997.1	6729.4	6212.6	5479.6
70°	485.6	505.0	645.2	1137.5	2361.1	4023.0	6316.5	6451.6	6213.5	5303.1	4042.4
72.5°	166.4	175.6	267.7	422.2	918.8	2384.7	4803.2	5006.7	4580.3	3560.2	2323.1
75°	94.6	100.5	143.6	228.8	385.1	784.5	2725.0	2850.0	2670.2	1940.5	955.9
77.5°	64.2	69.2	89.5	130.0	212.8	252.5	1111.3	1399.3	1220.2	633.3	244.0
80°	38.0	41.4	54.9	76.8	108.9	98.0	238.1	316.7	407.9	189.2	73.5
82.5°	17.7	20.3	35.5	50.7	54.9	41.4	70.1	85.3	114.8	92.9	30.4
85°	0.0	0.0	11.8	21.1	20.3	11.8	19.4	21.1	31.2	46.4	11.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	1.7	2.5	5.1	9.3	5.1
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°	942.4	942.4	942.4	942.4	942.4	942.4	942.4	942.4	942.4	942.4	942.4
2.5°	945.8	939.9	946.6	943.3	946.6	945.8	939.0	934.8	934.8	927.2	924.7
5°	957.6	951.7	953.4	945.8	944.1	939.9	931.4	928.1	928.1	920.5	917.9
7.5°	983.8	974.5	972.8	957.6	950.9	939.0	923.8	917.9	917.1	909.5	906.9
10°	1025.2	1014.2	1006.6	987.2	967.7	944.1	912.0	885.0	869.8	849.5	847.8
12.5°	1075.8	1062.3	1050.5	1020.9	988.9	935.7	841.1	742.3	681.5	633.3	636.7
15°	1132.4	1119.7	1101.2	1056.4	990.5	852.1	654.4	502.4	428.1	388.4	386.8
17.5°	1194.1	1175.5	1145.1	1084.3	937.3	651.1	425.6	300.6	261.8	248.3	244.9
20°	1251.5	1228.7	1190.7	1090.2	783.6	440.8	266.0	233.1	226.3	222.1	222.1
22.5°	1312.3	1283.6	1227.0	1044.6	582.7	282.0	226.3	218.7	213.6	207.7	206.9
25°	1373.9	1336.8	1259.9	925.5	381.7	222.1	212.0	203.5	194.2	184.9	182.4
27.5°	1426.3	1378.1	1285.3	748.2	244.9	200.1	193.4	179.0	166.4	156.2	154.5
30°	1488.8	1427.1	1296.2	547.2	192.5	176.5	166.4	151.2	136.0	125.8	122.4
32.5°	1572.4	1504.8	1279.3	356.4	170.6	155.4	139.3	121.6	106.4	95.4	93.7
35°	1702.4	1622.2	1201.7	227.2	154.5	134.3	114.8	96.3	83.6	75.2	73.5
37.5°	1861.2	1786.9	1074.1	170.6	138.5	116.5	93.7	76.0	66.7	60.8	59.1
40°	2096.8	1992.9	916.2	149.5	122.4	98.8	76.8	62.5	55.7	50.7	49.0
42.5°	2402.5	2236.1	734.7	136.0	107.2	82.8	62.5	51.5	45.6	42.2	41.4
45°	2759.7	2473.4	543.0	122.4	92.9	68.4	51.5	42.2	38.0	35.5	34.6
47.5°	3125.3	2681.1	374.9	108.1	79.4	56.6	43.1	36.3	32.9	29.6	28.7
50°	3515.4	2856.8	255.9	93.7	67.6	46.4	37.2	32.9	28.7	26.2	25.3
52.5°	3801.7	2921.8	178.2	81.1	57.4	39.7	32.9	29.6	26.2	22.8	22.0
55°	4066.0	2920.1	135.1	68.4	49.0	34.6	29.6	26.2	22.8	20.3	19.4
57.5°	4329.5	2897.3	106.4	58.3	42.2	31.2	26.2	22.8	21.1	17.7	16.9
60°	4500.1	2811.2	82.8	49.0	36.3	27.0	22.8	20.3	17.7	15.2	14.4
62.5°	4590.4	2691.3	63.3	38.8	29.6	23.6	20.3	17.7	15.2	12.7	11.8
65°	4468.0	2478.5	49.8	30.4	22.8	20.3	16.9	14.4	11.8	9.3	8.4
67.5°	3925.0	2090.0	38.8	24.5	17.7	15.2	14.4	11.8	8.4	6.8	5.9
70°	2774.0	1431.3	30.4	18.6	13.5	11.8	11.0	9.3	6.8	5.1	4.2
72.5°	1522.5	722.0	22.0	13.5	10.1	9.3	8.4	7.6	5.9	4.2	4.2
75°	586.0	198.4	16.0	9.3	6.8	6.8	5.9	5.9	5.1	3.4	3.4
77.5°	152.8	59.1	10.1	5.9	4.2	4.2	4.2	3.4	3.4	2.5	2.5
80°	49.0	19.4	5.9	4.2	3.4	2.5	2.5	1.7	2.5	1.7	1.7
82.5°	16.0	6.8	3.4	3.4	2.5	1.7	1.7	0.8	0.8	0.0	0.0
85°	5.9	3.4	2.5	1.7	1.7	1.7	0.8	0.0	0.0	0.0	0.0
87.5°	3.4	1.7	1.7	1.7	1.7	0.8	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)