

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: P633320

Luminaire Tested: GWS-SA2E-740-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633320  
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-SA2E-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

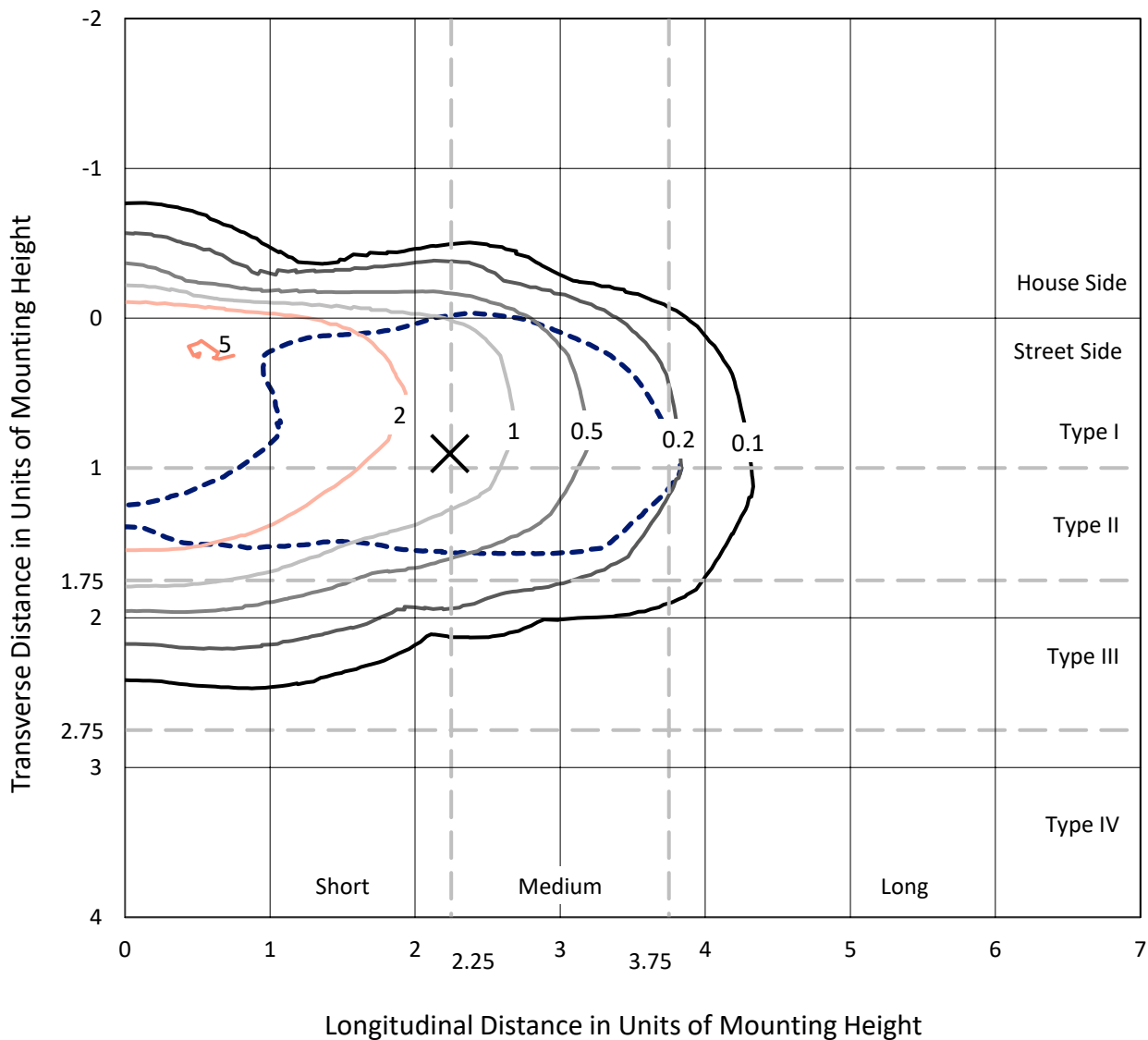
Lumens per Lamp: N/A  
Luminaire Lumens: 10929.5 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

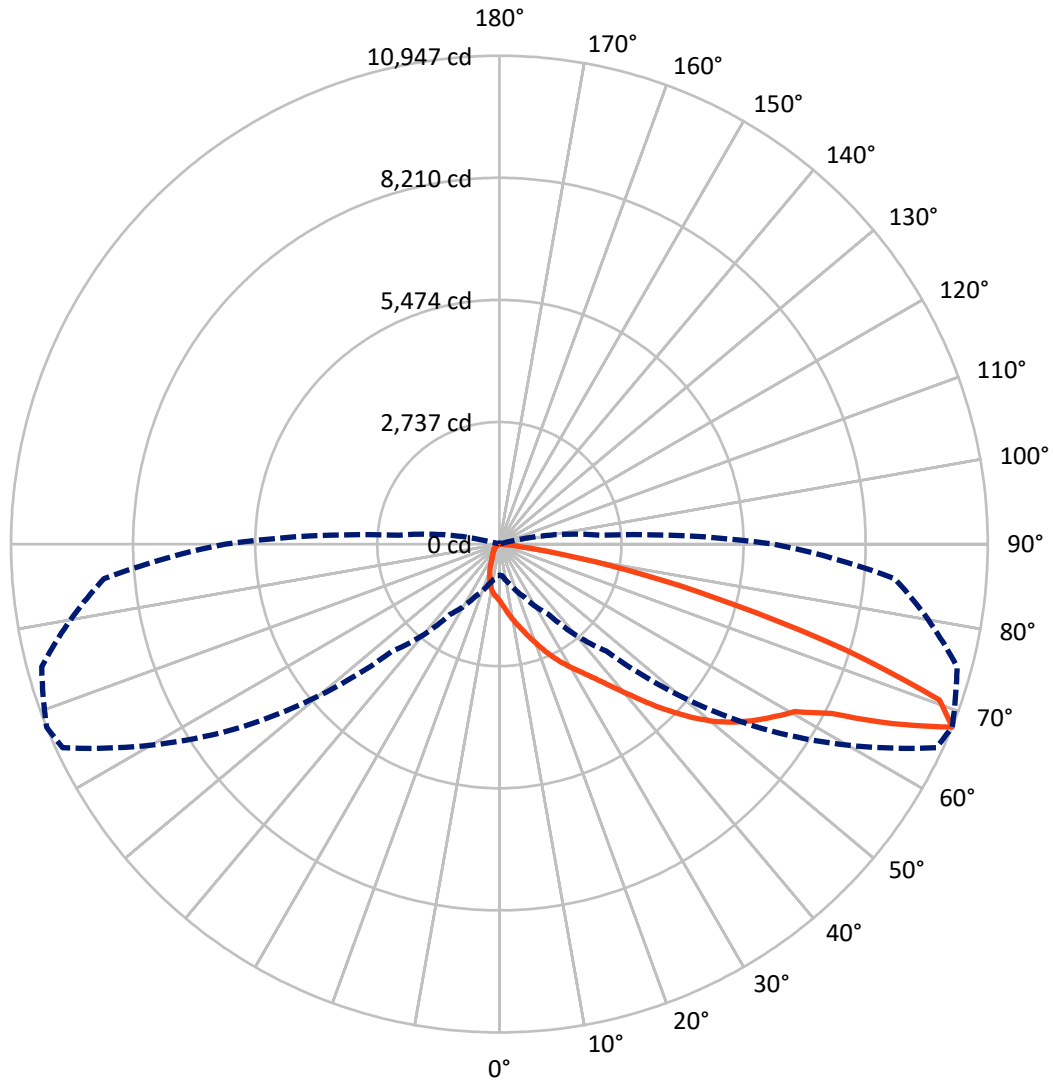
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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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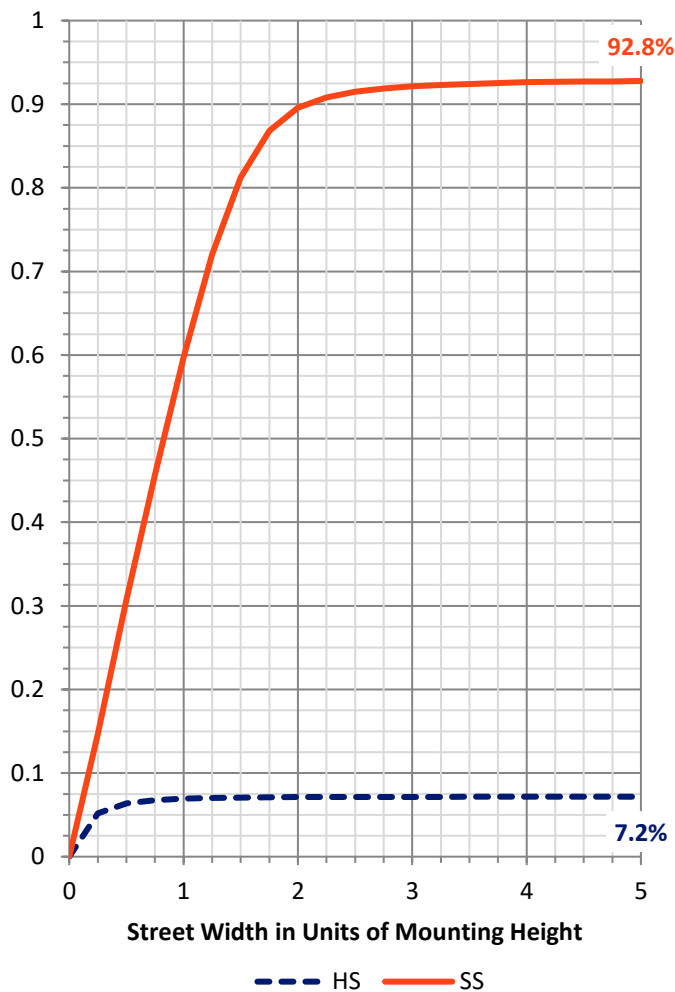
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	789.2	0.0	789.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	10140.3	0.0	10140.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	10929.5	0.0	10929.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.0	1.1
10°-20°	356.2	3.3
20°-30°	612.2	5.6
30°-40°	1064.4	9.7
40°-50°	1857.2	17.0
50°-60°	2801.2	25.6
60°-70°	2808.8	25.7
70°-80°	1239.2	11.3
80°-90°	66.2	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°	10929.5	100.0
0°-180°	10929.5	100.0

**Coefficient of Utilization**



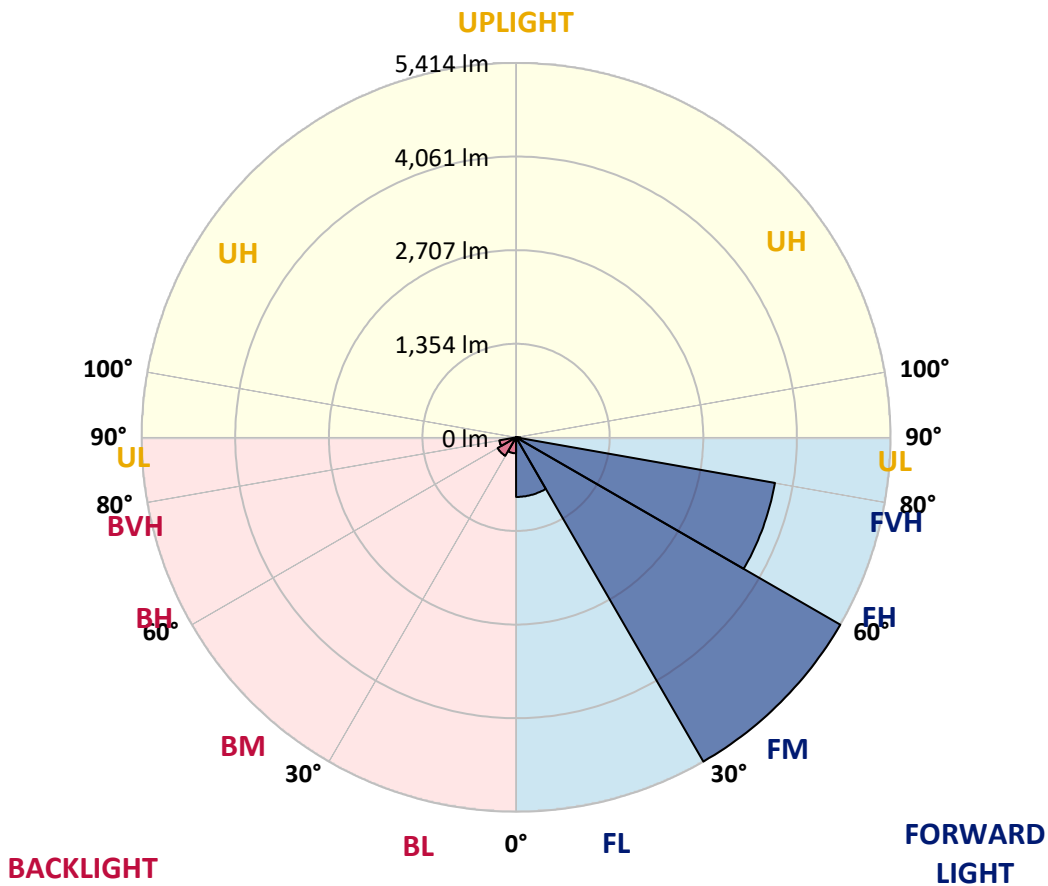
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	861.6	7.9			
FM (30°-60°)	5414.4	49.5			
FH (60°-80°)	3801.8	34.8			G2/5000
FVH (80°-90°)	62.5	0.6			G1/100
BL (0°-30°)	230.9	2.1	B1/500		
BM (30°-60°)	308.3	2.8	B1/1000		
BH (60°-80°)	246.3	2.3	B1/500		G1/500
BVH (80°-90°)	3.7	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°	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9
2.5°	1481.1	1490.5	1481.1	1483.2	1456.0	1443.5	1416.3	1378.6	1369.2	1345.1	1308.5
5°	1662.1	1670.4	1661.0	1658.9	1627.6	1604.5	1559.6	1494.7	1475.9	1428.8	1356.6
7.5°	1760.4	1765.6	1768.8	1774.0	1762.5	1743.7	1702.9	1622.3	1602.4	1526.1	1424.6
10°	1770.9	1775.0	1790.7	1822.1	1845.1	1856.6	1833.6	1759.3	1728.0	1653.7	1508.3
12.5°	1741.6	1747.8	1772.9	1825.2	1889.0	1947.6	1962.3	1897.4	1869.2	1774.0	1606.6
15°	1702.9	1708.1	1742.6	1813.7	1910.0	2017.7	2078.4	2050.1	2018.7	1919.4	1715.4
17.5°	1643.2	1650.6	1698.7	1794.9	1919.4	2073.1	2203.9	2213.3	2191.3	2083.6	1835.7
20°	1609.8	1615.0	1657.9	1757.3	1913.1	2113.9	2321.0	2409.9	2385.9	2272.9	1973.8
22.5°	1638.0	1642.2	1670.4	1747.8	1892.2	2136.9	2429.8	2606.6	2593.0	2475.8	2119.2
25°	1786.5	1800.1	1783.4	1797.0	1901.6	2149.5	2517.7	2803.2	2806.4	2688.2	2269.8
27.5°	2087.8	2070.0	2030.3	1962.3	1974.8	2183.0	2593.0	2988.4	3015.6	2895.3	2403.7
30°	2394.3	2383.8	2359.7	2254.1	2166.2	2257.2	2656.8	3177.7	3220.6	3099.2	2522.9
32.5°	2738.4	2748.8	2706.0	2579.4	2429.8	2407.9	2722.7	3357.6	3438.1	3330.4	2663.1
35°	3149.5	3152.6	3067.9	2927.7	2758.3	2656.8	2840.9	3556.3	3704.9	3625.4	2850.3
37.5°	3550.1	3568.9	3522.9	3302.2	3151.5	2966.4	3036.5	3811.6	4020.8	3989.4	3085.7
40°	3904.7	3933.9	3919.3	3705.9	3508.2	3352.4	3339.8	4110.7	4402.5	4438.1	3396.3
42.5°	4187.1	4205.9	4217.4	4065.7	3891.1	3803.2	3714.3	4458.0	4853.4	4998.8	3777.0
45°	4485.2	4491.5	4515.5	4413.0	4260.3	4267.6	4156.7	4879.5	5328.2	5620.1	4214.3
47.5°	4864.9	4885.8	4874.3	4766.5	4628.5	4711.1	4613.8	5313.6	5796.8	6283.2	4661.9
50°	5327.2	5349.2	5338.7	5213.2	5059.4	5093.9	5033.3	5735.1	6248.7	6908.7	5034.3
52.5°	5565.7	5583.5	5713.2	5769.6	5689.1	5469.4	5391.0	6198.5	6630.5	7423.3	5376.4
55°	5450.6	5463.2	5745.6	5984.1	6279.0	6059.4	5750.8	6556.2	6967.3	7825.0	5630.5
57.5°	4973.7	5041.6	5425.5	5829.3	6449.5	6642.0	6334.5	6945.3	7291.6	8104.3	5880.5
60°	3995.7	3992.5	4542.7	5267.6	6116.9	6802.0	7158.7	7471.5	7616.9	8318.7	6215.2
62.5°	2208.1	2227.9	2960.1	3915.1	5192.3	6387.8	7776.9	8380.4	8358.5	8693.2	6739.3
65°	1099.3	1139.1	1536.5	2242.6	3454.9	5279.1	7883.6	9767.4	9704.6	9574.9	7821.9
67.5°	697.7	713.4	933.0	1303.3	1920.4	3393.2	7219.4	10801.9	10947.3	10620.9	8896.1
70°	451.9	478.0	648.5	891.2	1158.9	1748.9	5288.5	10131.4	10465.1	10505.9	8226.7
72.5°	245.8	264.6	414.2	636.0	836.8	874.4	2970.6	7603.3	8139.8	8911.8	6435.9
75°	140.2	153.8	227.0	432.0	614.0	532.4	1316.9	5089.8	5431.8	6369.0	4611.7
77.5°	84.7	96.2	127.6	210.2	384.9	355.6	497.9	3098.2	3315.8	3800.1	2420.4
80°	38.7	46.0	80.5	116.1	210.2	168.4	190.4	1444.5	1491.6	1559.6	801.2
82.5°	17.8	20.9	36.6	69.0	119.2	97.3	73.2	333.7	469.6	444.5	204.0
85°	2.1	2.1	13.6	28.2	33.5	25.1	30.3	75.3	95.2	133.9	58.6
87.5°	0.0	0.0	1.0	1.0	2.1	3.1	6.3	9.4	13.6	22.0	14.6
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°	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9	1271.9
2.5°	1291.8	1262.5	1236.4	1197.7	1171.5	1142.2	1122.3	1098.3	1088.9	1081.5	1071.1
5°	1321.1	1274.0	1210.2	1139.1	1080.5	1025.1	973.8	940.3	911.1	906.9	892.2
7.5°	1369.2	1299.1	1191.4	1075.3	975.9	883.9	811.7	753.1	723.8	714.4	697.7
10°	1433.0	1336.8	1163.1	985.3	842.0	732.2	650.6	584.7	538.7	521.9	509.4
12.5°	1504.1	1371.3	1118.2	874.4	711.3	585.8	482.2	412.1	382.8	372.4	363.0
15°	1585.7	1403.7	1047.0	763.6	583.7	430.9	357.7	327.4	314.8	311.7	308.6
17.5°	1664.2	1424.6	962.3	648.5	448.7	334.7	300.2	288.7	285.6	282.4	280.3
20°	1753.1	1439.3	862.9	539.7	348.3	283.5	266.7	258.4	252.1	245.8	244.8
22.5°	1844.1	1439.3	755.2	433.0	291.8	254.2	235.3	219.7	208.2	201.9	199.8
25°	1930.9	1419.4	648.5	346.2	257.3	225.9	201.9	184.1	168.4	161.1	159.0
27.5°	1992.6	1368.1	555.4	292.9	233.3	200.8	171.5	151.7	139.1	131.8	130.7
30°	2031.3	1291.8	469.6	261.5	212.3	174.7	145.4	128.7	119.2	114.0	111.9
32.5°	2060.6	1197.7	393.3	239.5	192.5	151.7	126.6	113.0	104.6	100.4	99.4
35°	2119.2	1108.7	336.8	219.7	171.5	132.8	110.9	100.4	94.1	88.9	87.9
37.5°	2200.7	1034.5	291.8	201.9	151.7	118.2	100.4	91.0	85.8	80.5	79.5
40°	2321.0	987.4	258.4	184.1	133.9	106.7	92.0	83.7	76.4	71.1	70.1
42.5°	2506.2	965.4	236.4	166.3	118.2	96.2	84.7	74.3	66.9	61.7	60.7
45°	2726.9	976.9	217.6	148.5	107.7	88.9	75.3	64.9	57.5	52.3	51.3
47.5°	2963.3	1017.7	201.9	131.8	97.3	81.6	66.9	55.4	49.2	43.9	42.9
50°	3210.1	1084.7	188.3	116.1	88.9	73.2	57.5	48.1	41.8	37.7	36.6
52.5°	3424.5	1175.7	174.7	104.6	81.6	64.9	50.2	41.8	35.6	31.4	30.3
55°	3629.6	1261.5	164.2	94.1	73.2	56.5	43.9	35.6	30.3	26.1	25.1
57.5°	3852.4	1352.5	151.7	84.7	65.9	50.2	38.7	30.3	26.1	22.0	20.9
60°	4176.6	1487.4	132.8	77.4	57.5	43.9	33.5	27.2	23.0	17.8	16.7
62.5°	4644.2	1733.2	111.9	66.9	49.2	37.7	28.2	23.0	18.8	14.6	12.6
65°	5518.6	2151.6	92.0	55.4	39.7	31.4	24.1	18.8	14.6	10.5	9.4
67.5°	6148.3	2260.4	74.3	45.0	32.4	24.1	19.9	14.6	10.5	7.3	6.3
70°	5375.3	1623.4	57.5	36.6	27.2	18.8	15.7	11.5	7.3	5.2	4.2
72.5°	4050.0	1060.6	42.9	28.2	20.9	15.7	11.5	9.4	6.3	4.2	3.1
75°	2854.5	612.9	31.4	20.9	14.6	11.5	9.4	7.3	5.2	3.1	3.1
77.5°	1463.3	253.1	22.0	14.6	10.5	7.3	6.3	4.2	4.2	3.1	2.1
80°	444.5	83.7	12.6	9.4	7.3	5.2	3.1	3.1	3.1	2.1	1.0
82.5°	101.5	27.2	7.3	7.3	5.2	4.2	3.1	1.0	1.0	0.0	0.0
85°	26.1	8.4	6.3	5.2	5.2	4.2	2.1	1.0	0.0	0.0	0.0
87.5°	9.4	5.2	5.2	5.2	4.2	3.1	2.1	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)