

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: P632935

Luminaire Tested: GWS-SA2D-760-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632935  
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-SA2D-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

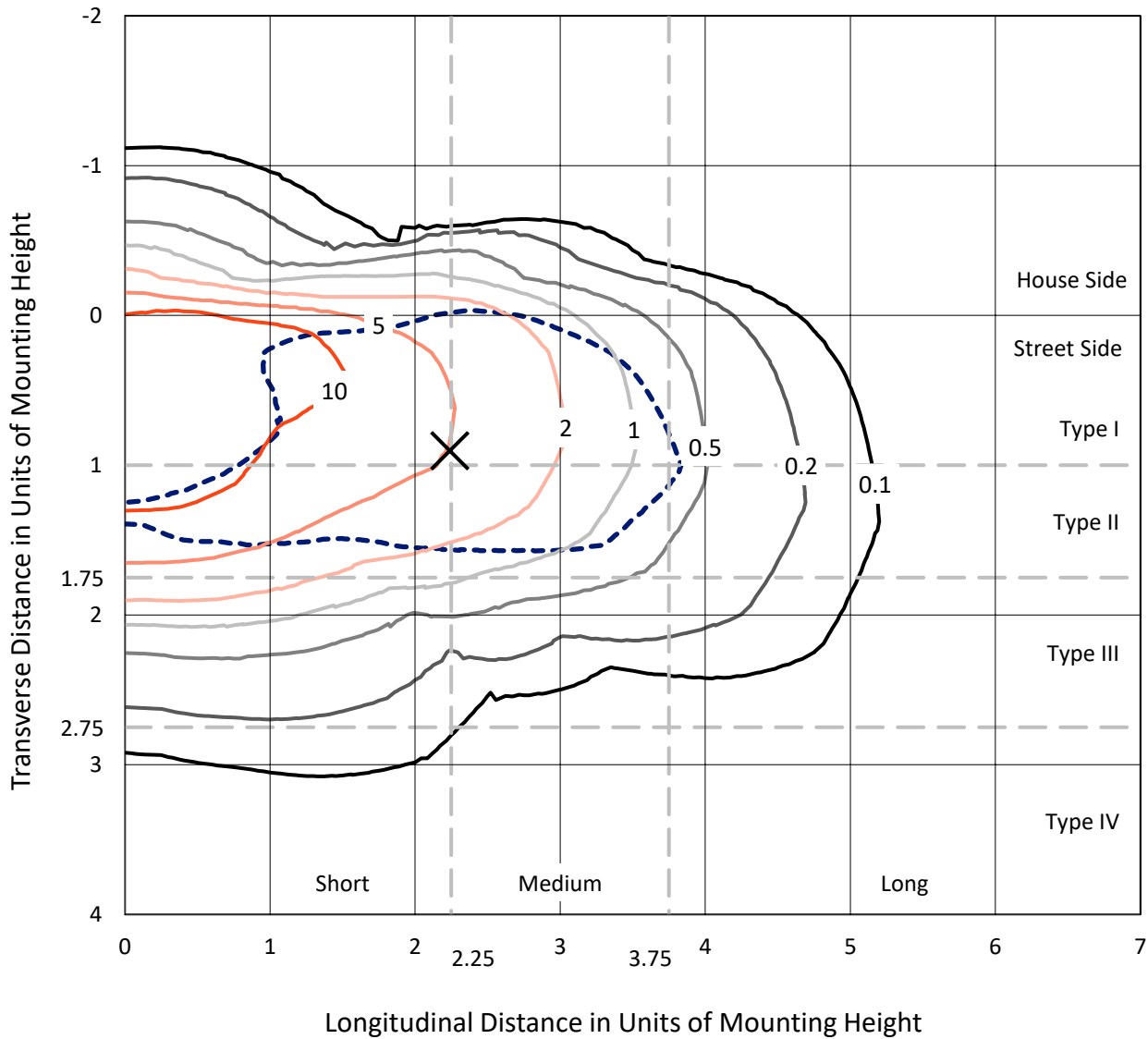
Lumens per Lamp: N/A  
Luminaire Lumens: 8823.9 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

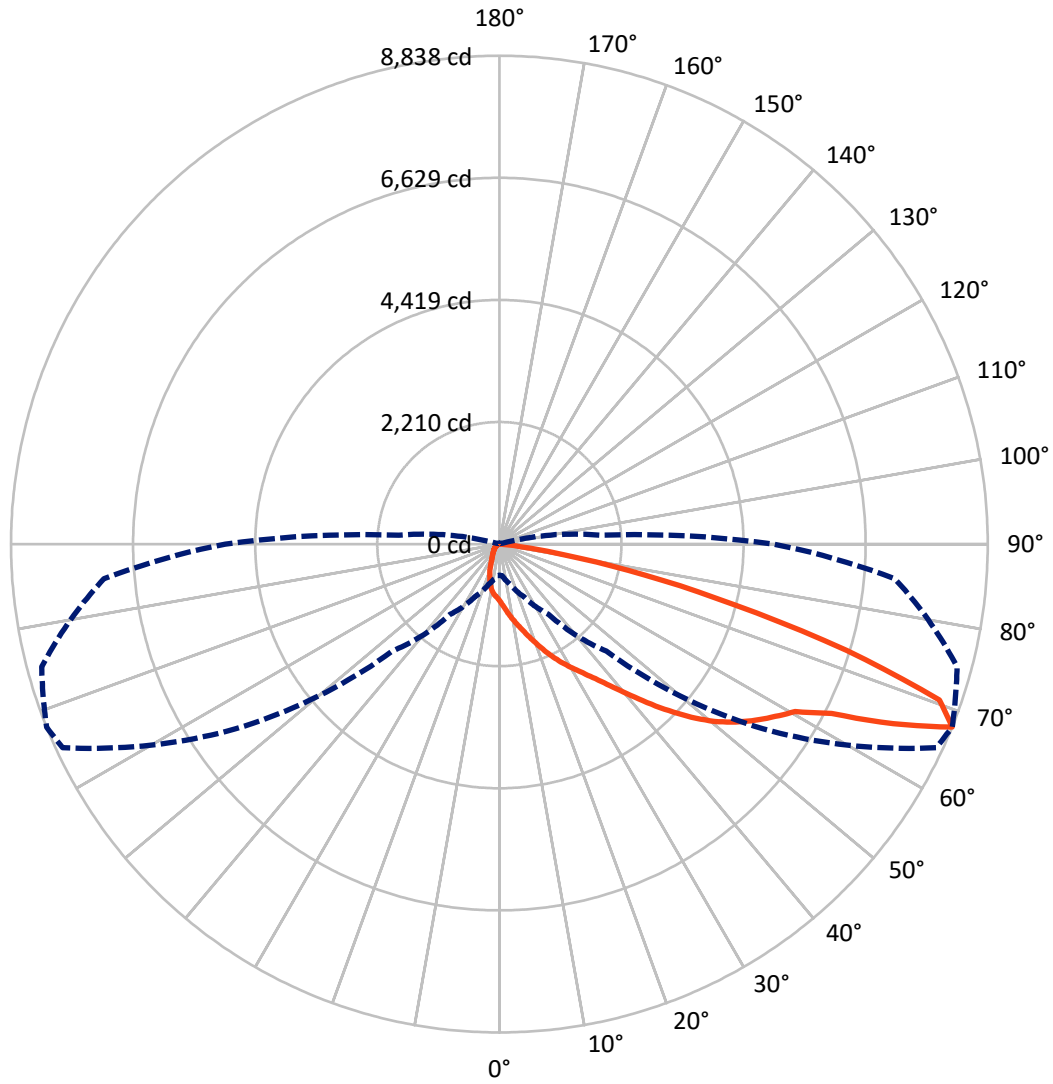
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.5 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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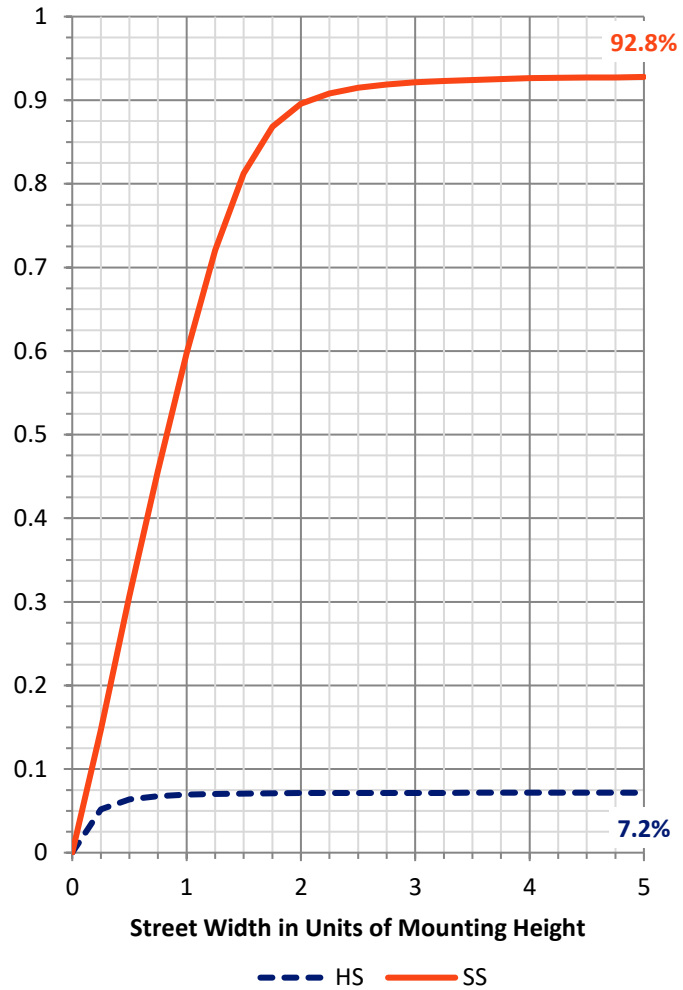
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	637.2	0.0	637.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	8186.7	0.0	8186.7
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	8823.9	0.0	8823.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.2	1.1
10°-20°	287.6	3.3
20°-30°	494.2	5.6
30°-40°	859.3	9.7
40°-50°	1499.4	17.0
50°-60°	2261.5	25.6
60°-70°	2267.7	25.7
70°-80°	1000.5	11.3
80°-90°	53.4	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°	8823.9	100.0
0°-180°	8823.9	100.0

**Coefficient of Utilization**



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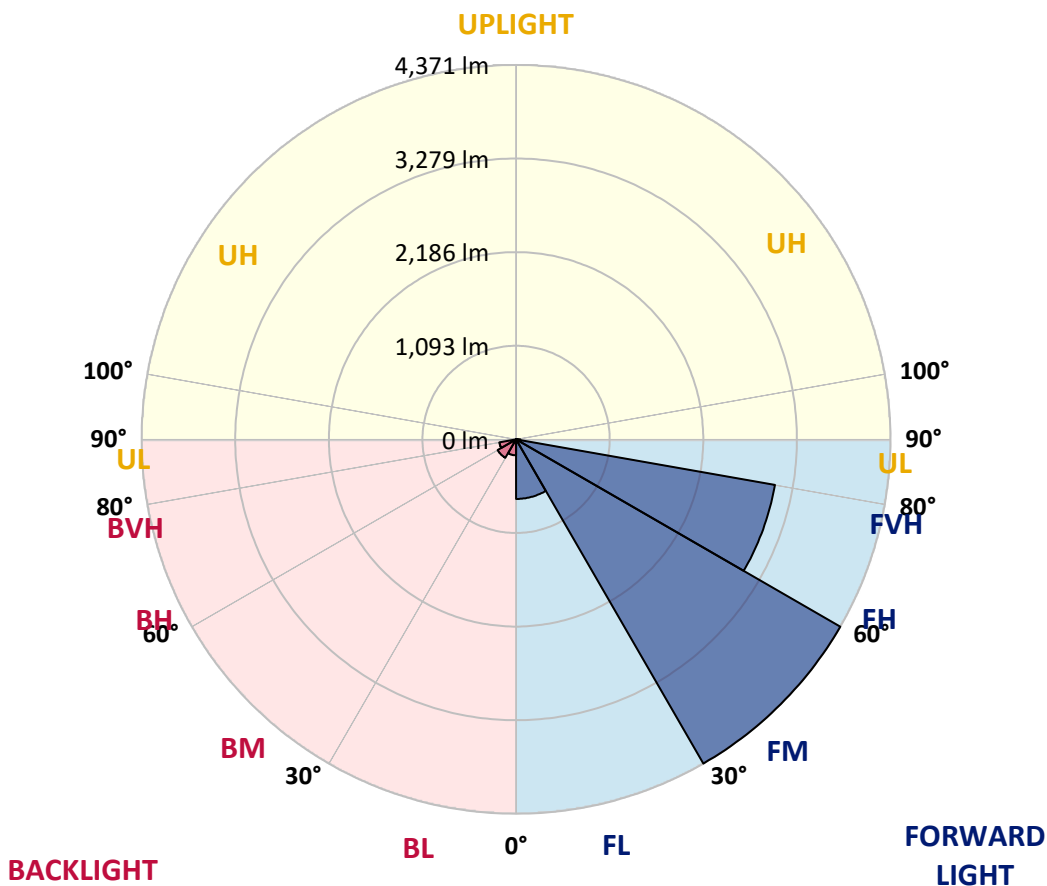
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	695.6	7.9			
FM (30°-60°)	4371.3	49.5			
FH (60°-80°)	3069.4	34.8			G2/5000
FVH (80°-90°)	50.4	0.6			G1/100
BL (0°-30°)	186.4	2.1	B1/500		
BM (30°-60°)	248.9	2.8	B1/1000		
BH (60°-80°)	198.9	2.3	B1/500		G1/500
BVH (80°-90°)	3.0	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1026.9	1026.9	1026.9	1026.9	1026.9	1026.9	1026.9	1026.9	1026.9	1026.9	1026.9
2.5°	1195.8	1203.4	1195.8	1197.5	1175.5	1165.4	1143.4	1113.0	1105.4	1086.0	1056.4
5°	1341.9	1348.6	1341.0	1339.3	1314.0	1295.4	1259.1	1206.8	1191.5	1153.5	1095.3
7.5°	1421.2	1425.5	1428.0	1432.2	1422.9	1407.7	1374.8	1309.8	1293.7	1232.1	1150.2
10°	1429.7	1433.1	1445.7	1471.1	1489.6	1498.9	1480.4	1420.4	1395.1	1335.1	1217.7
12.5°	1406.0	1411.1	1431.4	1473.6	1525.1	1572.4	1584.2	1531.9	1509.1	1432.2	1297.1
15°	1374.8	1379.0	1406.9	1464.3	1542.0	1629.0	1678.0	1655.2	1629.8	1549.6	1384.9
17.5°	1326.7	1332.6	1371.4	1449.1	1549.6	1673.7	1779.3	1786.9	1769.2	1682.2	1482.0
20°	1299.6	1303.9	1338.5	1418.7	1544.5	1706.7	1873.9	1945.7	1926.2	1835.0	1593.5
22.5°	1322.4	1325.8	1348.6	1411.1	1527.6	1725.3	1961.7	2104.4	2093.4	1998.9	1710.9
25°	1442.4	1453.3	1439.8	1450.8	1535.2	1735.4	2032.6	2263.2	2265.7	2170.3	1832.5
27.5°	1685.6	1671.2	1639.1	1584.2	1594.4	1762.4	2093.4	2412.7	2434.6	2337.5	1940.6
30°	1933.0	1924.6	1905.1	1819.8	1748.9	1822.4	2145.0	2565.5	2600.1	2502.2	2036.9
32.5°	2210.8	2219.3	2184.6	2082.5	1961.7	1944.0	2198.2	2710.8	2775.8	2688.8	2150.0
35°	2542.7	2545.2	2476.8	2363.7	2226.9	2145.0	2293.6	2871.2	2991.1	2926.9	2301.2
37.5°	2866.1	2881.3	2844.2	2666.0	2544.4	2394.9	2451.5	3077.3	3246.1	3220.8	2491.2
40°	3152.4	3176.1	3164.2	2992.0	2832.4	2706.5	2696.4	3318.8	3554.4	3583.1	2742.0
42.5°	3380.4	3395.6	3404.9	3282.5	3141.4	3070.5	2998.7	3599.1	3918.3	4035.7	3049.4
45°	3621.1	3626.2	3645.6	3562.8	3439.5	3445.4	3355.9	3939.5	4301.7	4537.3	3402.4
47.5°	3927.6	3944.5	3935.2	3848.3	3736.8	3803.5	3725.0	4289.9	4680.1	5072.7	3763.8
50°	4300.9	4318.6	4310.2	4208.8	4084.7	4112.6	4063.6	4630.2	5044.9	5577.7	4064.4
52.5°	4493.4	4507.8	4612.5	4658.1	4593.1	4415.7	4352.4	5004.3	5353.1	5993.2	4340.6
55°	4400.5	4410.7	4638.7	4831.2	5069.4	4892.0	4642.9	5293.1	5625.0	6317.5	4545.8
57.5°	4015.5	4070.4	4380.3	4706.2	5207.0	5362.4	5114.1	5607.3	5886.8	6543.0	4747.6
60°	3225.9	3223.3	3667.5	4252.8	4938.5	5491.6	5779.6	6032.1	6149.4	6716.1	5017.9
62.5°	1782.7	1798.7	2389.9	3160.9	4192.0	5157.2	6278.6	6765.9	6748.2	7018.4	5440.9
65°	887.5	919.6	1240.5	1810.5	2789.3	4262.0	6364.8	7885.7	7835.0	7730.3	6315.0
67.5°	563.3	575.9	753.3	1052.2	1550.5	2739.5	5828.5	8720.9	8838.2	8574.8	7182.2
70°	364.8	385.9	523.6	719.5	935.7	1412.0	4269.6	8179.6	8448.9	8481.9	6641.8
72.5°	198.5	213.7	334.4	513.4	675.6	706.0	2398.3	6138.5	6571.7	7194.9	5196.0
75°	113.2	124.1	183.3	348.8	495.7	429.8	1063.2	4109.2	4385.3	5142.0	3723.3
77.5°	68.4	77.7	103.0	169.7	310.8	287.1	402.0	2501.3	2677.0	3068.0	1954.1
80°	31.2	37.2	65.0	93.7	169.7	136.0	153.7	1166.2	1204.2	1259.1	646.9
82.5°	14.4	16.9	29.6	55.7	96.3	78.5	59.1	269.4	379.2	358.9	164.7
85°	1.7	1.7	11.0	22.8	27.0	20.3	24.5	60.8	76.8	108.1	47.3
87.5°	0.0	0.0	0.8	0.8	1.7	2.5	5.1	7.6	11.0	17.7	11.8
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°	1026.9	1026.9	1026.9	1026.9	1026.9	1026.9	1026.9	1026.9	1026.9	1026.9	1026.9
2.5°	1042.9	1019.3	998.2	966.9	945.8	922.2	906.1	886.7	879.1	873.2	864.7
5°	1066.6	1028.6	977.1	919.6	872.3	827.6	786.2	759.2	735.5	732.2	720.3
7.5°	1105.4	1048.8	961.9	868.1	787.9	713.6	655.3	608.0	584.4	576.8	563.3
10°	1156.9	1079.2	939.1	795.5	679.8	591.1	525.3	472.1	434.9	421.4	411.3
12.5°	1214.4	1107.1	902.7	706.0	574.2	472.9	389.3	332.7	309.1	300.6	293.0
15°	1280.2	1133.3	845.3	616.5	471.2	347.9	288.8	264.3	254.2	251.7	249.1
17.5°	1343.6	1150.2	776.9	523.6	362.3	270.2	242.4	233.1	230.5	228.0	226.3
20°	1415.3	1162.0	696.7	435.7	281.2	228.9	215.3	208.6	203.5	198.5	197.6
22.5°	1488.8	1162.0	609.7	349.6	235.6	205.2	190.0	177.3	168.0	163.0	161.3
25°	1558.9	1145.9	523.6	279.5	207.7	182.4	163.0	148.6	136.0	130.0	128.4
27.5°	1608.7	1104.6	448.4	236.5	188.3	162.1	138.5	122.4	112.3	106.4	105.6
30°	1640.0	1042.9	379.2	211.1	171.4	141.0	117.4	103.9	96.3	92.0	90.4
32.5°	1663.6	966.9	317.5	193.4	155.4	122.4	102.2	91.2	84.4	81.1	80.2
35°	1710.9	895.1	271.9	177.3	138.5	107.2	89.5	81.1	76.0	71.8	70.9
37.5°	1776.8	835.2	235.6	163.0	122.4	95.4	81.1	73.5	69.2	65.0	64.2
40°	1873.9	797.2	208.6	148.6	108.1	86.1	74.3	67.6	61.6	57.4	56.6
42.5°	2023.4	779.4	190.9	134.3	95.4	77.7	68.4	60.0	54.0	49.8	49.0
45°	2201.5	788.7	175.7	119.9	87.0	71.8	60.8	52.4	46.4	42.2	41.4
47.5°	2392.4	821.7	163.0	106.4	78.5	65.9	54.0	44.8	39.7	35.5	34.6
50°	2591.7	875.7	152.0	93.7	71.8	59.1	46.4	38.8	33.8	30.4	29.6
52.5°	2764.8	949.2	141.0	84.4	65.9	52.4	40.5	33.8	28.7	25.3	24.5
55°	2930.3	1018.4	132.6	76.0	59.1	45.6	35.5	28.7	24.5	21.1	20.3
57.5°	3110.2	1091.9	122.4	68.4	53.2	40.5	31.2	24.5	21.1	17.7	16.9
60°	3372.0	1200.8	107.2	62.5	46.4	35.5	27.0	22.0	18.6	14.4	13.5
62.5°	3749.5	1399.3	90.4	54.0	39.7	30.4	22.8	18.6	15.2	11.8	10.1
65°	4455.4	1737.1	74.3	44.8	32.1	25.3	19.4	15.2	11.8	8.4	7.6
67.5°	4963.8	1824.9	60.0	36.3	26.2	19.4	16.0	11.8	8.4	5.9	5.1
70°	4339.7	1310.6	46.4	29.6	22.0	15.2	12.7	9.3	5.9	4.2	3.4
72.5°	3269.8	856.3	34.6	22.8	16.9	12.7	9.3	7.6	5.1	3.4	2.5
75°	2304.6	494.9	25.3	16.9	11.8	9.3	7.6	5.9	4.2	2.5	2.5
77.5°	1181.4	204.4	17.7	11.8	8.4	5.9	5.1	3.4	3.4	2.5	1.7
80°	358.9	67.6	10.1	7.6	5.9	4.2	2.5	2.5	2.5	1.7	0.8
82.5°	81.9	22.0	5.9	5.9	4.2	3.4	2.5	0.8	0.8	0.0	0.0
85°	21.1	6.8	5.1	4.2	4.2	3.4	1.7	0.8	0.0	0.0	0.0
87.5°	7.6	4.2	4.2	4.2	3.4	2.5	1.7	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)