

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: P635518

Luminaire Tested: GWS-SA3D-830-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635518  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3D-830-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

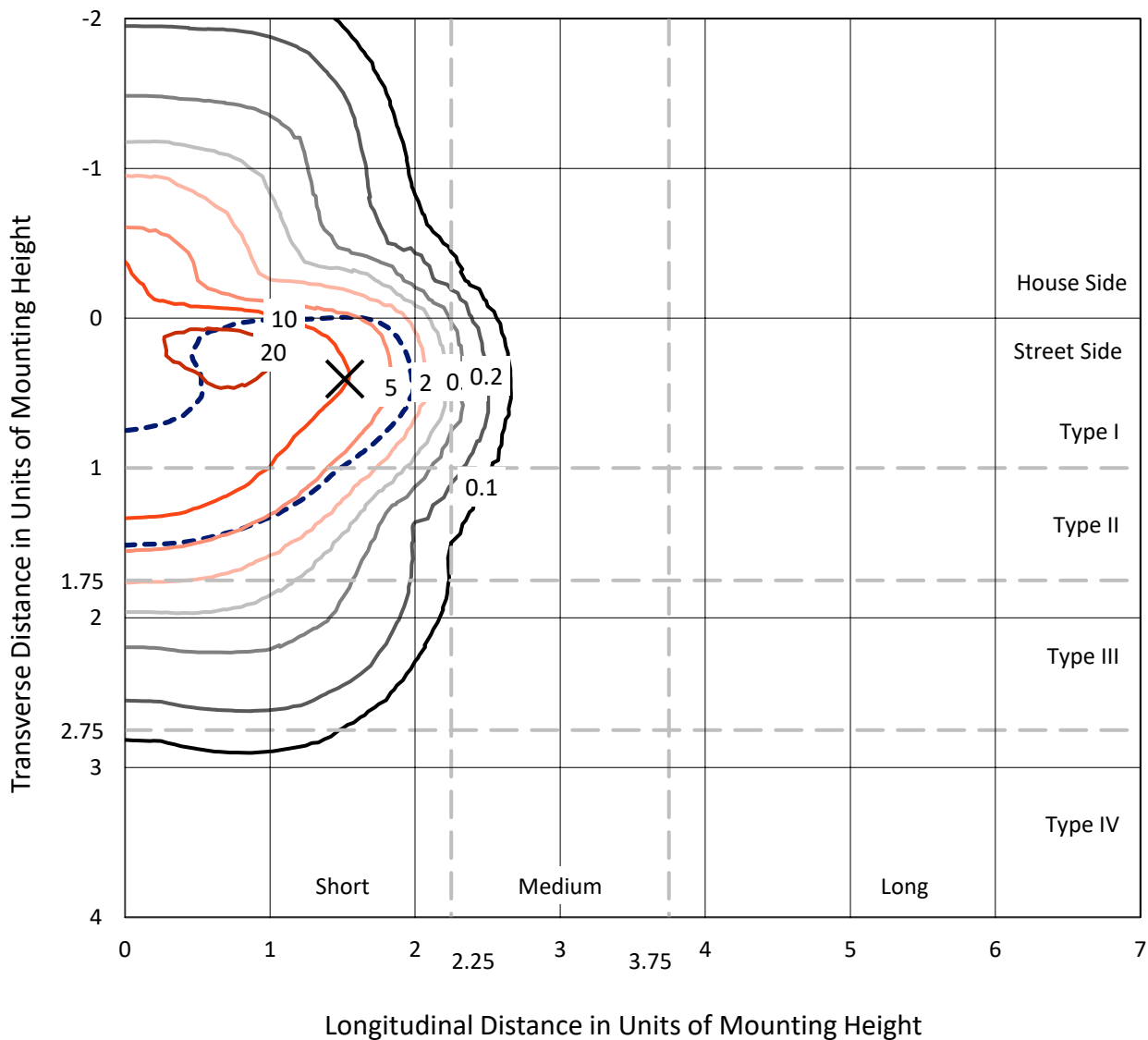
Lumens per Lamp: N/A  
Luminaire Lumens: 8304 lumens  
Efficiency: N/A  
Efficacy: 68.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

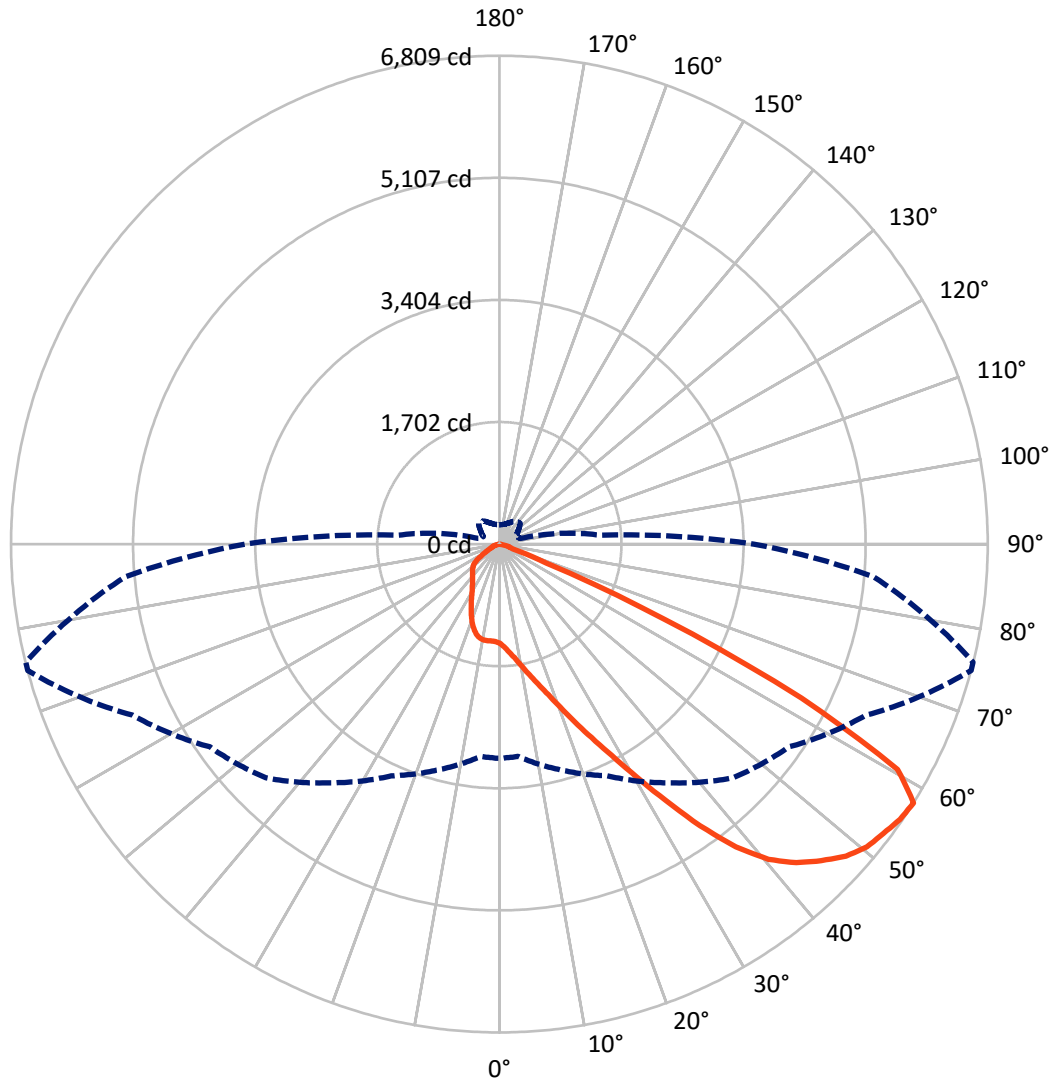
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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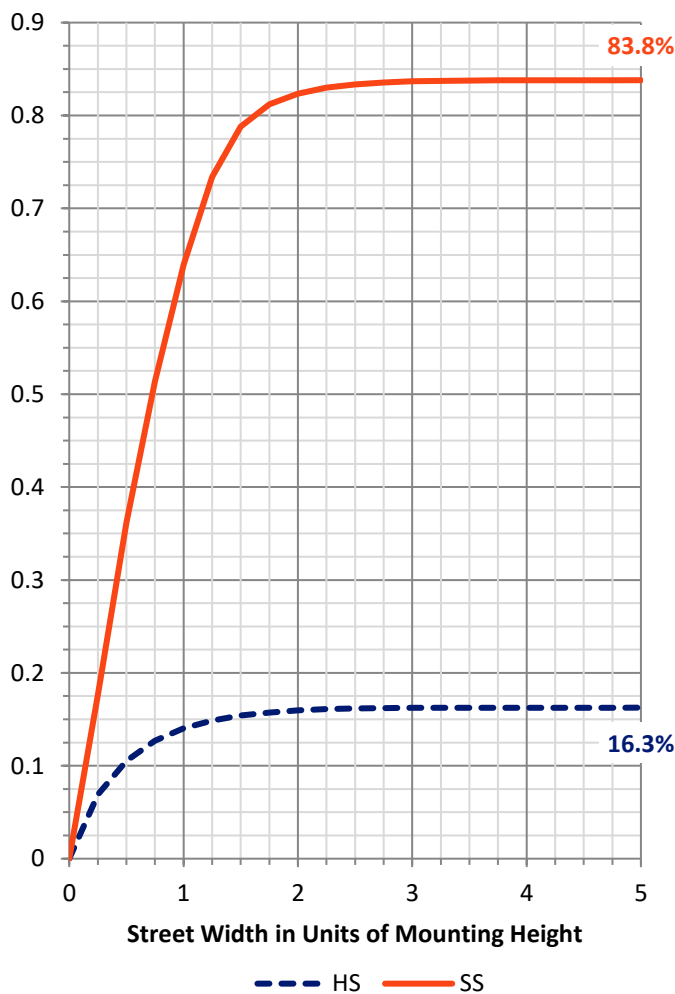
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1356.4	0.0	1356.4
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	6947.6	0.0	6947.6
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	8304.0	0.0	8304.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.9	1.7
10°-20°	457.8	5.5
20°-30°	838.4	10.1
30°-40°	1390.9	16.8
40°-50°	2124.3	25.6
50°-60°	2387.0	28.7
60°-70°	880.4	10.6
70°-80°	84.2	1.0
80°-90°	0.1	0.0
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°	8304.0	100.0
0°-180°	8304.0	100.0

**Coefficient of Utilization**



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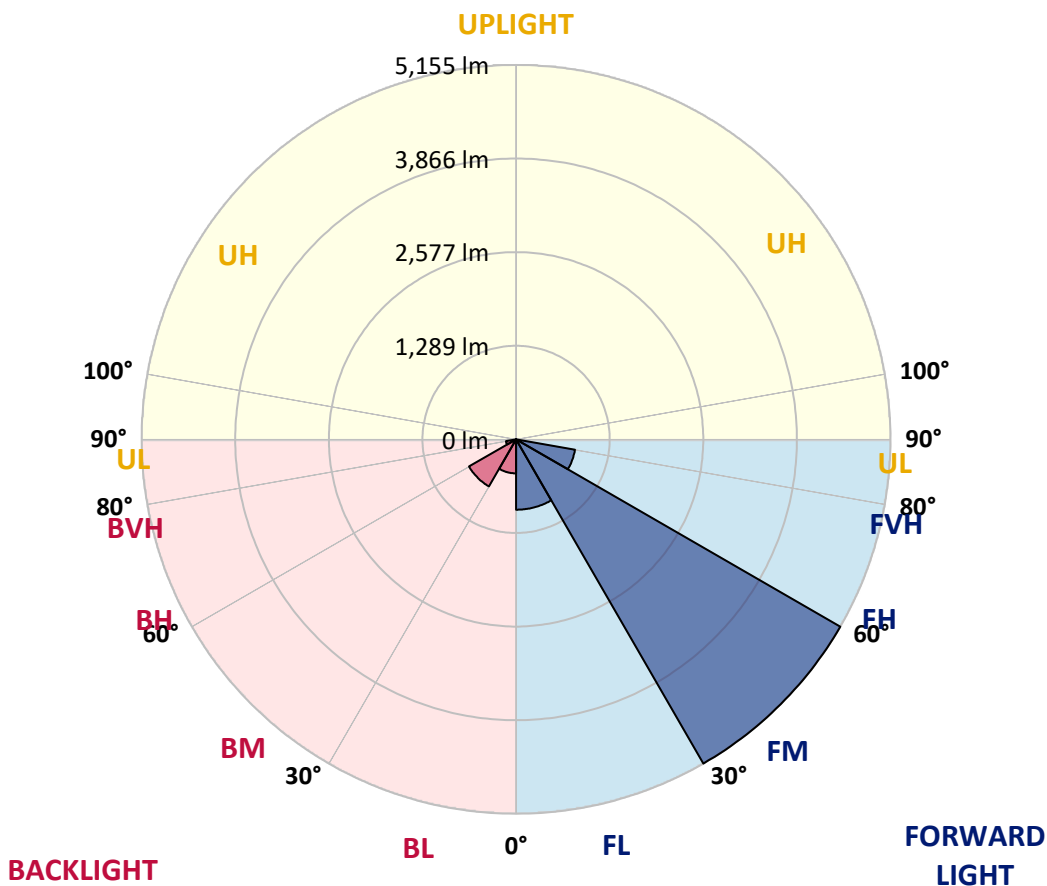
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.1	11.7			
FM (30°-60°)	5154.7	62.1			
FH (60°-80°)	823.7	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	468.1	5.6	B1/500		
BM (30°-60°)	747.5	9.0	B1/1000		
BH (60°-80°)	140.9	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0
2.5°	1547.3	1563.4	1558.4	1548.3	1542.3	1521.3	1508.3	1470.2	1443.1	1440.1	1415.1
5°	1742.8	1739.8	1735.7	1723.7	1713.7	1680.6	1641.5	1577.4	1520.3	1513.3	1460.2
7.5°	1850.0	1852.0	1854.0	1852.0	1845.0	1819.9	1776.8	1701.7	1614.5	1608.5	1524.3
10°	1894.1	1898.1	1908.1	1927.2	1944.2	1942.2	1917.1	1840.0	1732.7	1722.7	1609.5
12.5°	1915.1	1920.1	1936.2	1972.3	2018.4	2054.4	2058.4	1989.3	1871.0	1855.0	1710.7
15°	1944.2	1949.2	1969.3	2016.4	2083.5	2154.7	2200.8	2156.7	2024.4	2007.3	1821.9
17.5°	1957.2	1964.2	1993.3	2055.4	2142.6	2251.9	2356.1	2352.1	2205.8	2192.7	1951.2
20°	1982.3	1987.3	2013.3	2080.5	2185.7	2343.1	2518.4	2581.6	2427.2	2408.2	2107.6
22.5°	2061.5	2063.5	2075.5	2117.6	2215.8	2409.2	2683.8	2849.2	2688.8	2663.8	2282.9
25°	2190.7	2189.7	2194.7	2201.8	2273.9	2476.3	2843.1	3150.8	2988.5	2961.4	2481.4
27.5°	2355.1	2355.1	2367.1	2347.1	2376.1	2559.5	3000.5	3497.6	3337.2	3299.1	2698.8
30°	2548.5	2547.5	2575.6	2543.5	2552.5	2690.8	3169.8	3875.4	3758.1	3711.0	2949.4
32.5°	2811.1	2805.1	2837.1	2793.0	2763.0	2889.2	3376.3	4270.2	4262.2	4190.1	3264.1
35°	3142.8	3132.8	3142.8	3099.7	3045.6	3166.8	3646.9	4664.1	4821.4	4745.2	3638.9
37.5°	3472.5	3504.6	3515.6	3441.4	3397.3	3518.6	3972.6	5016.8	5355.6	5276.4	4028.7
40°	3861.3	3851.3	3889.4	3806.2	3778.2	3912.5	4291.3	5279.4	5778.5	5703.3	4375.5
42.5°	4148.0	4166.0	4213.1	4167.0	4145.0	4271.2	4558.8	5432.7	6072.1	5998.0	4623.0
45°	4491.7	4504.7	4522.8	4484.7	4461.6	4585.9	4752.3	5499.9	6295.6	6215.4	4789.3
47.5°	4863.5	4873.5	4873.5	4795.4	4721.2	4772.3	4881.5	5538.0	6501.0	6423.9	4912.6
50°	5130.1	5135.1	5179.2	5124.1	4962.7	4883.5	4940.7	5575.0	6637.3	6565.2	4952.7
52.5°	4893.6	4887.6	5032.9	5147.1	5190.2	5032.9	5042.9	5629.2	6703.5	6641.3	4984.8
55°	4120.9	4110.9	4315.3	4592.9	4972.7	5174.2	5166.2	5661.2	6776.6	6738.6	5101.0
57.5°	2987.5	2970.4	3255.0	3563.7	4061.8	4608.0	4928.6	5643.2	6808.7	6805.7	5236.3
60°	1795.9	1781.8	2050.4	2375.1	2760.0	3309.1	3841.3	5054.9	6379.8	6385.8	4884.6
62.5°	1105.4	1118.4	1360.9	1526.3	1669.6	1835.0	2142.6	3400.3	4726.2	4765.3	3432.4
65°	743.6	753.6	978.1	1186.6	1186.6	970.1	832.8	1625.5	2521.4	2455.3	1623.5
67.5°	499.1	510.1	687.5	931.0	966.1	676.5	337.7	485.0	702.5	681.5	401.9
70°	293.6	305.7	458.0	638.4	703.5	471.0	225.5	205.4	199.4	193.4	156.3
72.5°	131.3	136.3	233.5	324.7	296.6	198.4	159.3	164.4	155.3	152.3	127.3
75°	40.1	42.1	60.1	70.2	71.2	71.2	96.2	129.3	122.3	123.3	98.2
77.5°	10.0	10.0	16.0	15.0	8.0	7.0	18.0	29.1	30.1	27.1	20.0
80°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0	1385.0
2.5°	1404.0	1378.0	1360.9	1336.9	1319.9	1301.8	1285.8	1272.7	1265.7	1263.7	1264.7
5°	1436.1	1395.0	1354.9	1308.8	1276.8	1246.7	1222.6	1203.6	1194.6	1191.6	1191.6
7.5°	1485.2	1428.1	1356.9	1284.8	1230.7	1183.6	1155.5	1134.5	1126.4	1124.4	1118.4
10°	1549.3	1471.2	1353.9	1241.7	1165.5	1116.4	1096.4	1090.4	1093.4	1094.4	1093.4
12.5°	1626.5	1516.3	1334.9	1178.5	1096.4	1066.3	1068.3	1084.3	1102.4	1111.4	1113.4
15°	1708.7	1557.4	1291.8	1103.4	1037.2	1036.2	1065.3	1102.4	1137.5	1152.5	1156.5
17.5°	1800.9	1590.4	1225.6	1023.2	986.1	1015.2	1067.3	1124.4	1171.5	1196.6	1201.6
20°	1902.1	1617.5	1141.5	948.0	941.0	993.1	1065.3	1135.5	1193.6	1221.6	1226.6
22.5°	2007.3	1636.5	1044.3	878.9	899.9	968.1	1046.3	1114.4	1169.5	1201.6	1205.6
25°	2127.6	1638.5	945.0	820.8	861.9	934.0	1000.2	1056.3	1102.4	1130.4	1133.4
27.5°	2232.8	1614.5	856.9	773.7	826.8	891.9	936.0	967.1	999.2	1015.2	1016.2
30°	2354.1	1572.4	773.7	735.6	790.7	839.8	861.9	868.9	871.9	874.9	870.9
32.5°	2498.4	1521.3	711.5	698.5	749.6	782.7	788.7	774.7	757.6	733.6	727.6
35°	2675.8	1475.2	660.4	662.4	704.5	724.6	719.6	689.5	656.4	627.4	622.3
37.5°	2868.2	1436.1	621.3	627.4	655.4	669.4	654.4	621.3	606.3	581.3	582.3
40°	3038.6	1404.0	586.3	592.3	605.3	618.3	594.3	572.2	600.3	598.3	600.3
42.5°	3159.8	1377.0	556.2	553.2	562.2	571.2	553.2	542.2	589.3	576.2	583.3
45°	3231.0	1351.9	531.1	513.1	527.1	543.2	531.1	517.1	533.2	473.0	468.0
47.5°	3279.1	1337.9	509.1	474.0	499.1	527.1	502.1	468.0	445.0	392.8	388.8
50°	3284.1	1330.9	483.0	433.9	466.0	496.1	467.0	419.9	386.8	363.8	360.8
52.5°	3310.1	1344.9	447.0	382.8	417.9	466.0	446.0	398.9	353.8	333.7	329.7
55°	3426.4	1404.0	386.8	312.7	363.8	443.0	428.9	355.8	312.7	300.6	297.6
57.5°	3546.7	1416.1	304.7	247.5	316.7	409.9	391.8	327.7	285.6	271.6	268.6
60°	3243.0	1166.5	228.5	204.4	279.6	378.8	362.8	310.7	261.6	244.5	241.5
62.5°	2130.6	630.4	181.4	173.4	235.5	320.7	330.7	280.6	233.5	215.5	214.5
65°	982.1	292.6	139.3	137.3	184.4	255.6	284.6	245.5	197.4	181.4	181.4
67.5°	267.6	145.3	109.2	101.2	125.3	171.4	207.4	183.4	140.3	121.3	120.3
70°	133.3	117.3	98.2	87.2	90.2	106.2	122.3	102.2	71.2	58.1	57.1
72.5°	109.2	96.2	83.2	74.2	68.1	65.1	63.1	51.1	33.1	25.1	24.1
75°	81.2	69.1	59.1	48.1	41.1	38.1	34.1	25.1	14.0	8.0	7.0
77.5°	18.0	17.0	16.0	12.0	11.0	9.0	7.0	5.0	2.0	0.0	0.0
80°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)