

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: P635520

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635520  
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-SA3D-830-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

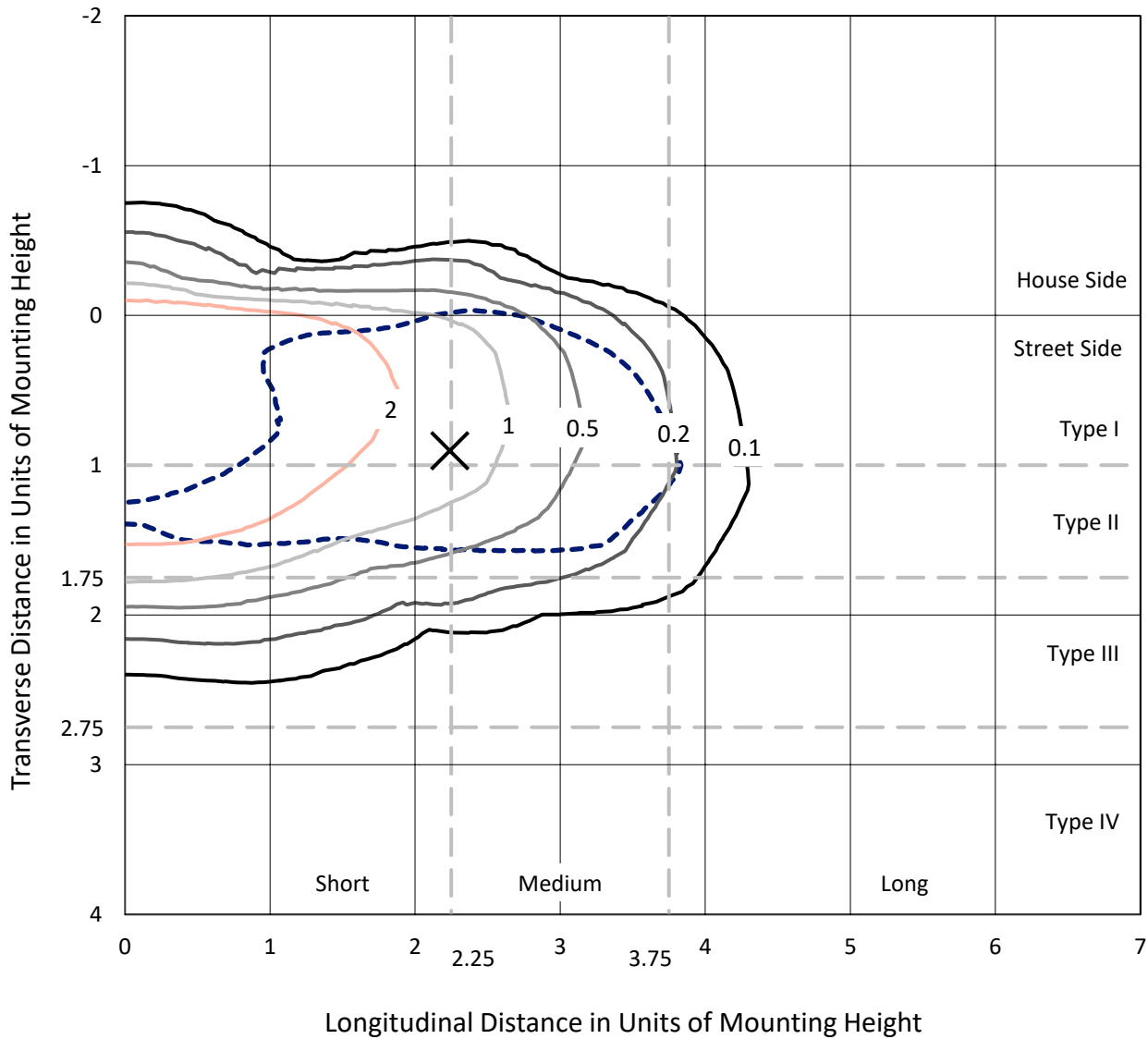
Lumens per Lamp: N/A  
Luminaire Lumens: 10471.7 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): 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

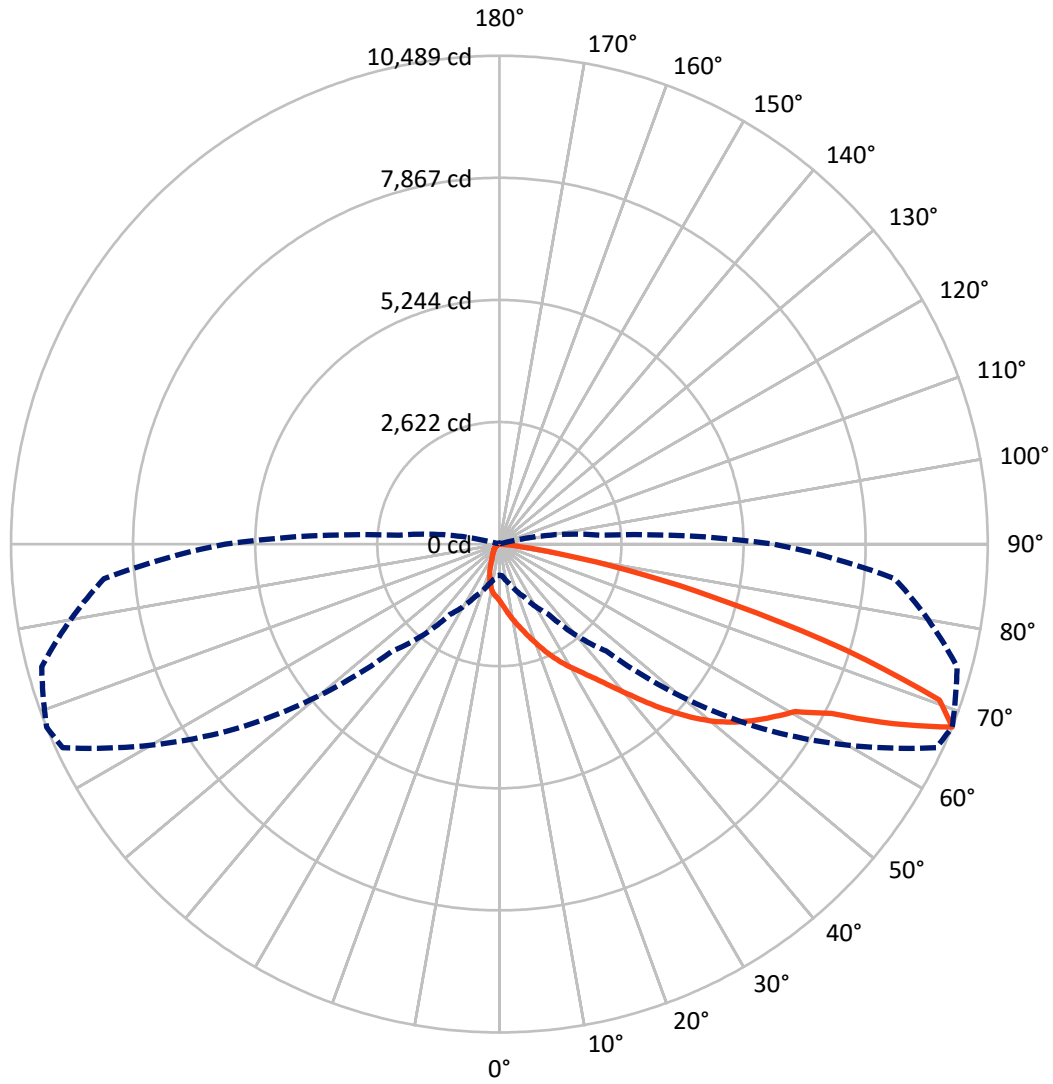
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 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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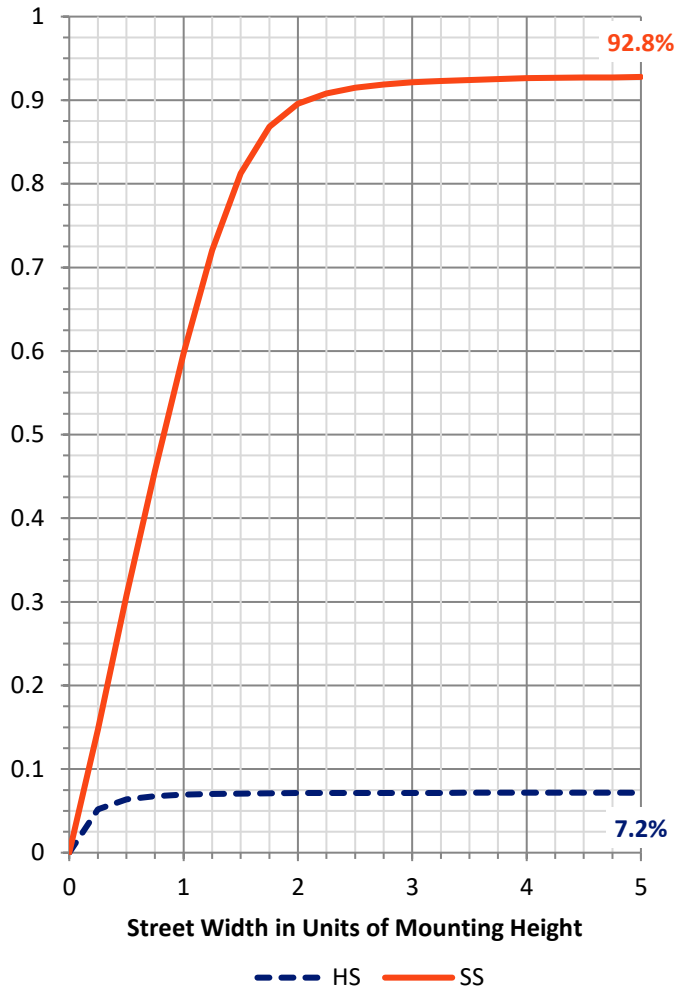
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	756.2	0.0	756.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	9715.5	0.0	9715.5
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	10471.7	0.0	10471.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.9	1.1
10°-20°	341.3	3.3
20°-30°	586.5	5.6
30°-40°	1019.8	9.7
40°-50°	1779.4	17.0
50°-60°	2683.8	25.6
60°-70°	2691.2	25.7
70°-80°	1187.3	11.3
80°-90°	63.4	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°	10471.7	100.0
0°-180°	10471.7	100.0

**Coefficient of Utilization**



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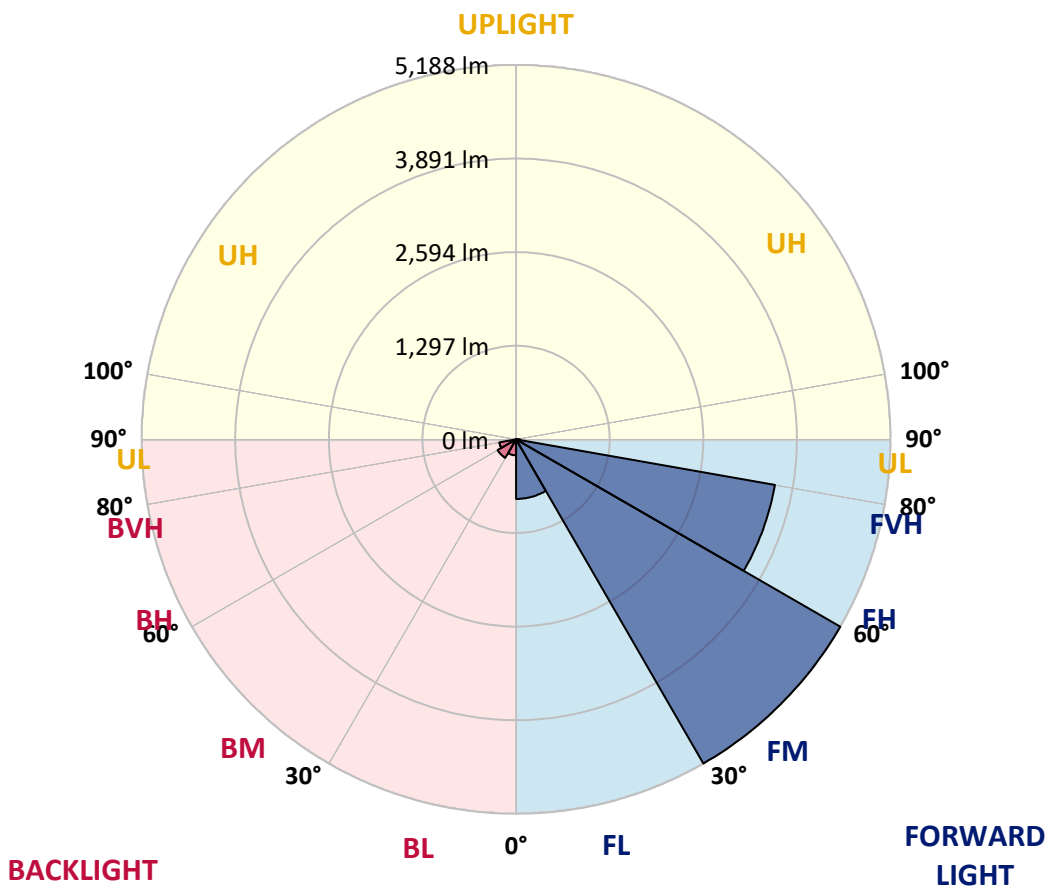
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	825.5	7.9			
FM (30°-60°)	5187.7	49.5			
FH (60°-80°)	3642.5	34.8			G2/5000
FVH (80°-90°)	59.8	0.6			G1/100
BL (0°-30°)	221.2	2.1	B1/500		
BM (30°-60°)	295.4	2.8	B1/1000		
BH (60°-80°)	236.0	2.3	B1/500		G1/500
BVH (80°-90°)	3.6	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°	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6
2.5°	1419.1	1428.1	1419.1	1421.1	1395.0	1383.0	1356.9	1320.9	1311.8	1288.8	1253.7
5°	1592.4	1600.5	1591.4	1589.4	1559.4	1537.3	1494.2	1432.1	1414.1	1369.0	1299.8
7.5°	1686.7	1691.7	1694.7	1699.7	1688.7	1670.6	1631.5	1554.4	1535.3	1462.2	1365.0
10°	1696.7	1700.7	1715.7	1745.8	1767.8	1778.9	1756.8	1685.7	1655.6	1584.4	1445.1
12.5°	1668.6	1674.6	1698.7	1748.8	1809.9	1866.0	1880.1	1817.9	1790.9	1699.7	1539.3
15°	1631.5	1636.5	1669.6	1737.8	1830.0	1933.2	1991.3	1964.3	1934.2	1839.0	1643.6
17.5°	1574.4	1581.4	1627.5	1719.7	1839.0	1986.3	2111.6	2120.6	2099.5	1996.3	1758.8
20°	1542.3	1547.4	1588.4	1683.6	1833.0	2025.4	2223.8	2309.0	2286.0	2177.7	1891.1
22.5°	1569.4	1573.4	1600.5	1674.6	1812.9	2047.4	2328.0	2497.4	2484.4	2372.1	2030.4
25°	1711.7	1724.7	1708.7	1721.7	1821.9	2059.5	2412.2	2685.8	2688.8	2575.6	2174.7
27.5°	2000.3	1983.3	1945.2	1880.1	1892.1	2091.5	2484.4	2863.2	2889.3	2774.0	2303.0
30°	2294.0	2283.9	2260.9	2159.7	2075.5	2162.7	2545.5	3044.6	3085.7	2969.4	2417.2
32.5°	2623.7	2633.7	2592.6	2471.4	2328.0	2307.0	2608.7	3217.0	3294.1	3190.9	2551.5
35°	3017.5	3020.5	2939.4	2805.1	2642.7	2545.5	2721.9	3407.4	3549.7	3473.5	2730.9
37.5°	3401.4	3419.4	3375.3	3163.9	3019.5	2842.2	2909.3	3651.9	3852.3	3822.3	2956.4
40°	3741.1	3769.2	3755.1	3550.7	3361.3	3212.0	3199.9	3938.5	4218.1	4252.2	3254.0
42.5°	4011.7	4029.7	4040.8	3895.4	3728.1	3643.9	3558.7	4271.3	4650.1	4789.4	3618.8
45°	4297.3	4303.3	4326.4	4228.2	4081.8	4088.9	3982.6	4675.1	5105.1	5384.7	4037.7
47.5°	4661.1	4681.1	4670.1	4566.9	4434.6	4513.8	4420.6	5091.0	5554.0	6020.0	4466.7
50°	5104.1	5125.1	5115.1	4994.8	4847.5	4880.6	4822.4	5494.9	5987.0	6619.3	4823.4
52.5°	5332.6	5349.6	5473.9	5528.0	5450.8	5240.4	5165.2	5938.9	6352.8	7112.4	5151.2
55°	5222.3	5234.3	5504.9	5733.4	6016.0	5805.6	5509.9	6281.6	6675.5	7497.2	5394.7
57.5°	4765.3	4830.5	5198.3	5585.1	6179.4	6363.8	6069.1	6654.4	6986.1	7764.8	5634.2
60°	3828.3	3825.3	4352.4	5046.9	5860.7	6517.1	6858.9	7158.5	7297.8	7970.3	5954.9
62.5°	2115.6	2134.6	2836.1	3751.1	4974.8	6120.3	7451.1	8029.4	8008.3	8329.0	6457.0
65°	1053.3	1091.4	1472.2	2148.7	3310.2	5058.0	7553.4	9358.3	9298.1	9173.9	7494.2
67.5°	668.4	683.5	893.9	1248.7	1840.0	3251.0	6917.0	10349.4	10488.7	10176.0	8523.5
70°	432.9	458.0	621.3	853.8	1110.4	1675.6	5067.0	9707.0	10026.7	10065.8	7882.1
72.5°	235.5	253.5	396.9	609.3	801.7	837.8	2846.2	7284.8	7798.9	8538.5	6166.4
75°	134.3	147.3	217.5	413.9	588.3	510.1	1261.7	4876.6	5204.3	6102.2	4418.6
77.5°	81.2	92.2	122.3	201.4	368.8	340.7	477.0	2968.4	3176.9	3640.9	2319.0
80°	37.1	44.1	77.2	111.2	201.4	161.3	182.4	1384.0	1429.1	1494.2	767.7
82.5°	17.0	20.0	35.1	66.1	114.2	93.2	70.2	319.7	450.0	425.9	195.4
85°	2.0	2.0	13.0	27.1	32.1	24.1	29.1	72.2	91.2	128.3	56.1
87.5°	0.0	0.0	1.0	1.0	2.0	3.0	6.0	9.0	13.0	21.0	14.0
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°	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6
2.5°	1237.7	1209.6	1184.6	1147.5	1122.4	1094.4	1075.3	1052.3	1043.3	1036.2	1026.2
5°	1265.7	1220.6	1159.5	1091.4	1035.2	982.1	933.0	901.0	872.9	868.9	854.9
7.5°	1311.8	1244.7	1141.5	1030.2	935.0	846.8	777.7	721.6	693.5	684.5	668.4
10°	1373.0	1280.8	1114.4	944.0	806.7	701.5	623.4	560.2	516.1	500.1	488.1
12.5°	1441.1	1313.8	1071.3	837.8	681.5	561.2	462.0	394.9	366.8	356.8	347.8
15°	1519.3	1344.9	1003.2	731.6	559.2	412.9	342.7	313.7	301.7	298.6	295.6
17.5°	1594.5	1365.0	922.0	621.3	429.9	320.7	287.6	276.6	273.6	270.6	268.6
20°	1679.6	1379.0	826.8	517.1	333.7	271.6	255.6	247.5	241.5	235.5	234.5
22.5°	1766.8	1379.0	723.6	414.9	279.6	243.5	225.5	210.5	199.4	193.4	191.4
25°	1850.0	1359.9	621.3	331.7	246.5	216.5	193.4	176.4	161.3	154.3	152.3
27.5°	1909.1	1310.8	532.2	280.6	223.5	192.4	164.4	145.3	133.3	126.3	125.3
30°	1946.2	1237.7	450.0	250.5	203.4	167.4	139.3	123.3	114.2	109.2	107.2
32.5°	1974.3	1147.5	376.8	229.5	184.4	145.3	121.3	108.2	100.2	96.2	95.2
35°	2030.4	1062.3	322.7	210.5	164.4	127.3	106.2	96.2	90.2	85.2	84.2
37.5°	2108.6	991.1	279.6	193.4	145.3	113.2	96.2	87.2	82.2	77.2	76.2
40°	2223.8	946.0	247.5	176.4	128.3	102.2	88.2	80.2	73.2	68.1	67.1
42.5°	2401.2	925.0	226.5	159.3	113.2	92.2	81.2	71.2	64.1	59.1	58.1
45°	2612.7	936.0	208.5	142.3	103.2	85.2	72.2	62.1	55.1	50.1	49.1
47.5°	2839.1	975.1	193.4	126.3	93.2	78.2	64.1	53.1	47.1	42.1	41.1
50°	3075.7	1039.3	180.4	111.2	85.2	70.2	55.1	46.1	40.1	36.1	35.1
52.5°	3281.1	1126.4	167.4	100.2	78.2	62.1	48.1	40.1	34.1	30.1	29.1
55°	3477.5	1208.6	157.3	90.2	70.2	54.1	42.1	34.1	29.1	25.1	24.1
57.5°	3691.0	1295.8	145.3	81.2	63.1	48.1	37.1	29.1	25.1	21.0	20.0
60°	4001.7	1425.1	127.3	74.2	55.1	42.1	32.1	26.1	22.0	17.0	16.0
62.5°	4449.6	1660.6	107.2	64.1	47.1	36.1	27.1	22.0	18.0	14.0	12.0
65°	5287.5	2061.5	88.2	53.1	38.1	30.1	23.0	18.0	14.0	10.0	9.0
67.5°	5890.8	2165.7	71.2	43.1	31.1	23.0	19.0	14.0	10.0	7.0	6.0
70°	5150.2	1555.4	55.1	35.1	26.1	18.0	15.0	11.0	7.0	5.0	4.0
72.5°	3880.4	1016.2	41.1	27.1	20.0	15.0	11.0	9.0	6.0	4.0	3.0
75°	2734.9	587.3	30.1	20.0	14.0	11.0	9.0	7.0	5.0	3.0	3.0
77.5°	1402.0	242.5	21.0	14.0	10.0	7.0	6.0	4.0	4.0	3.0	2.0
80°	425.9	80.2	12.0	9.0	7.0	5.0	3.0	3.0	3.0	2.0	1.0
82.5°	97.2	26.1	7.0	7.0	5.0	4.0	3.0	1.0	1.0	0.0	0.0
85°	25.1	8.0	6.0	5.0	5.0	4.0	2.0	1.0	0.0	0.0	0.0
87.5°	9.0	5.0	5.0	5.0	4.0	3.0	2.0	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)