

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: P634542

Luminaire Tested: GWS-SA3B-830-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634542  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3B-830-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

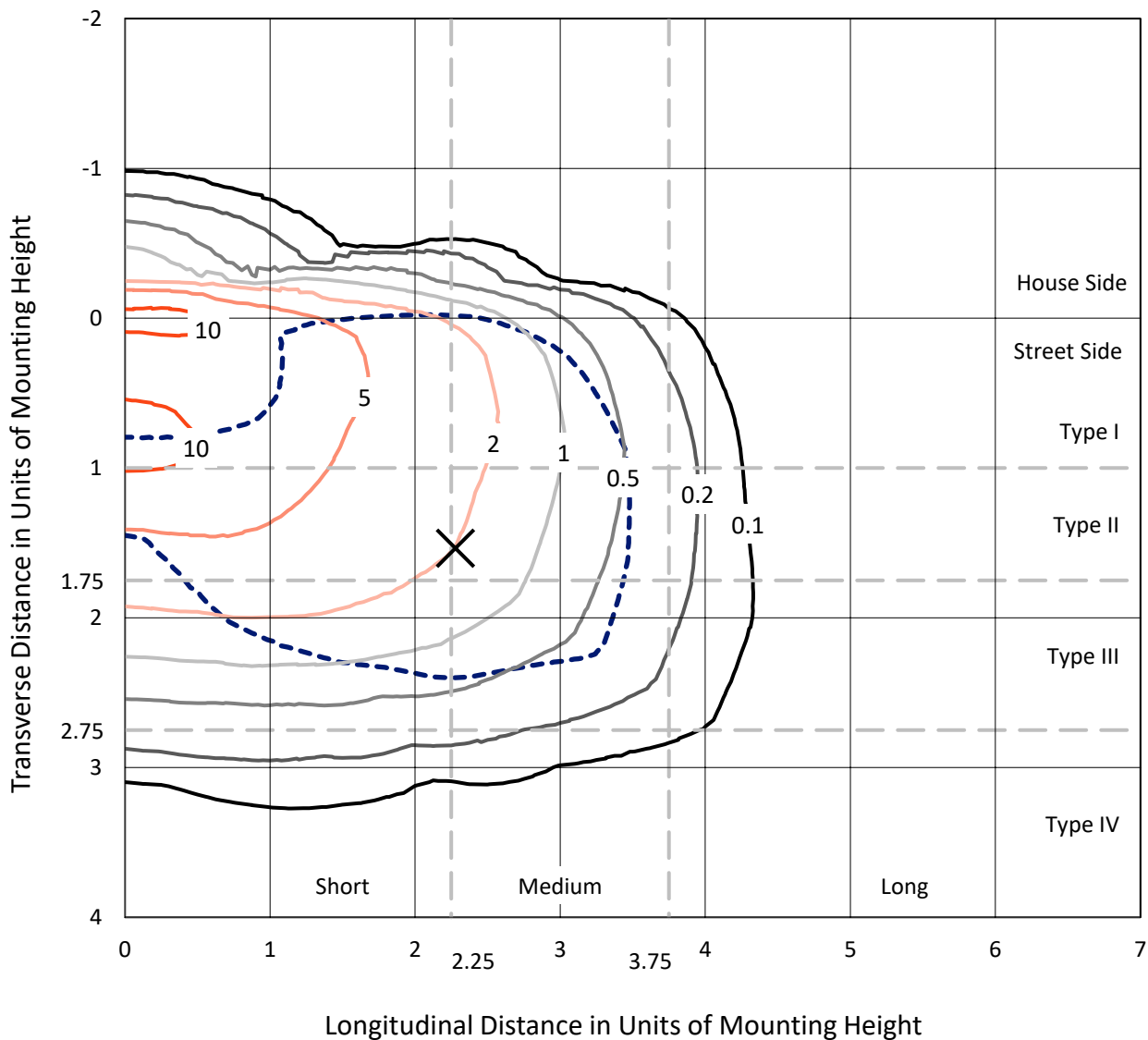
Lumens per Lamp: N/A  
Luminaire Lumens: 6468.3 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 68.3  
Input Voltage (V): 120  
Input Current (Ain): 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

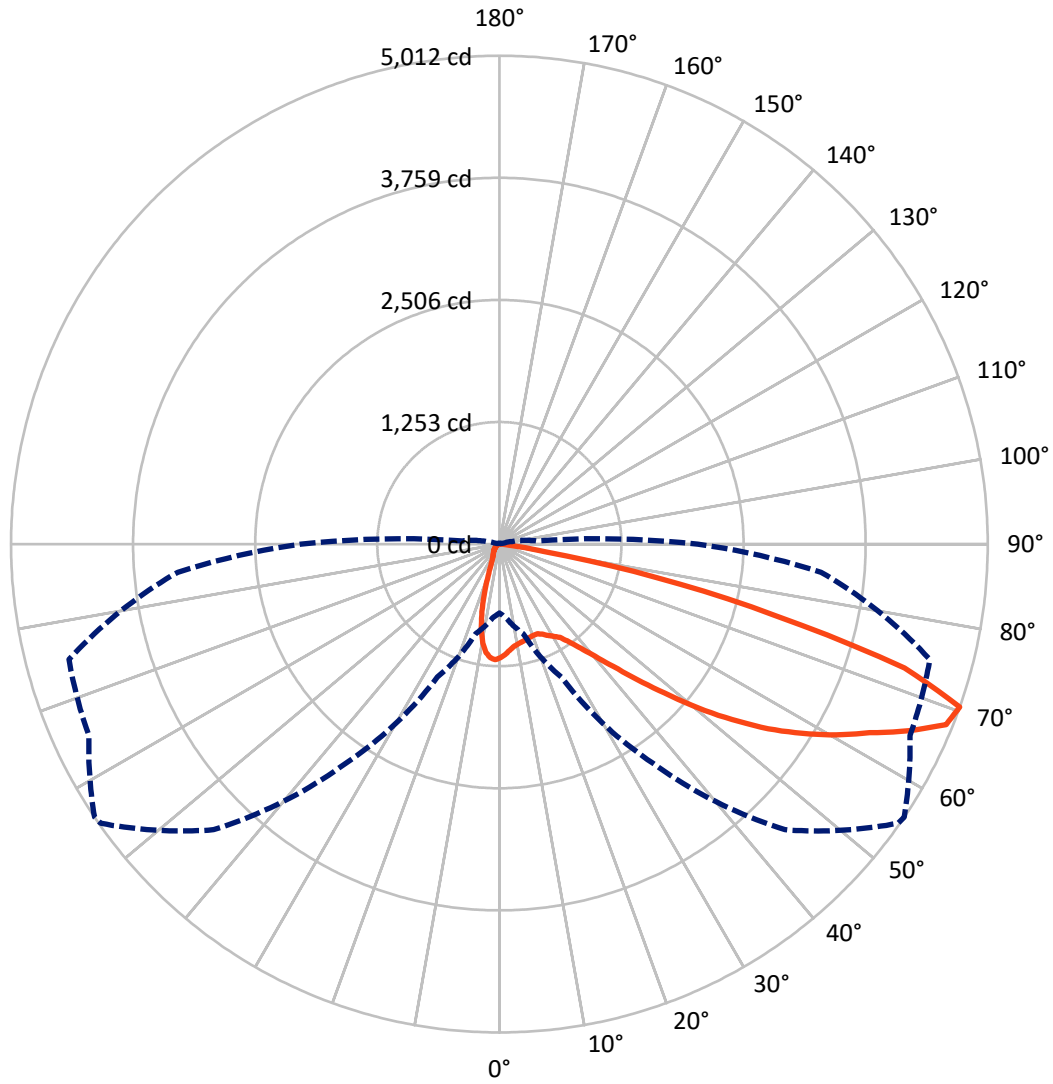
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 fc  
 Type III - Medium - N/A

REPORT NUMBER: P634542  
CATALOG NUMBER: GWS-SA3B-830-U-T3R-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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 CATALOG NUMBER: GWS-SA3B-830-U-T3R-W-HSS

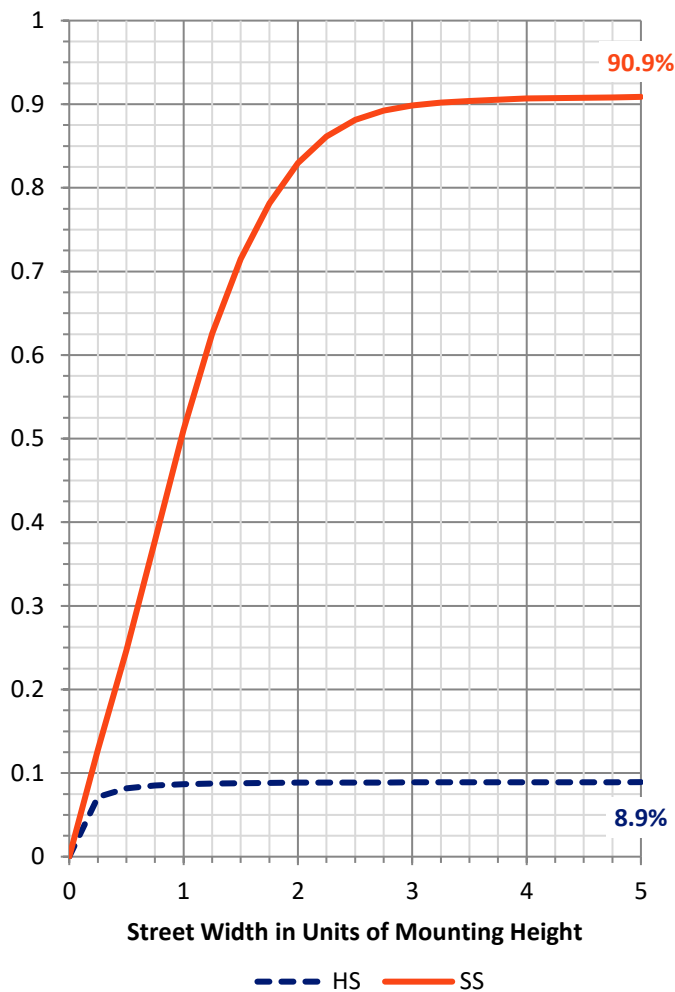
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	581.0	0.0	581.0
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	5887.3	0.0	5887.3
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	6468.3	0.0	6468.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.1	1.5
10°-20°	225.2	3.5
20°-30°	356.8	5.5
30°-40°	615.2	9.5
40°-50°	1038.9	16.1
50°-60°	1526.5	23.6
60°-70°	1809.7	28.0
70°-80°	771.7	11.9
80°-90°	24.2	0.4
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°	6468.3	100.0
0°-180°	6468.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P634542

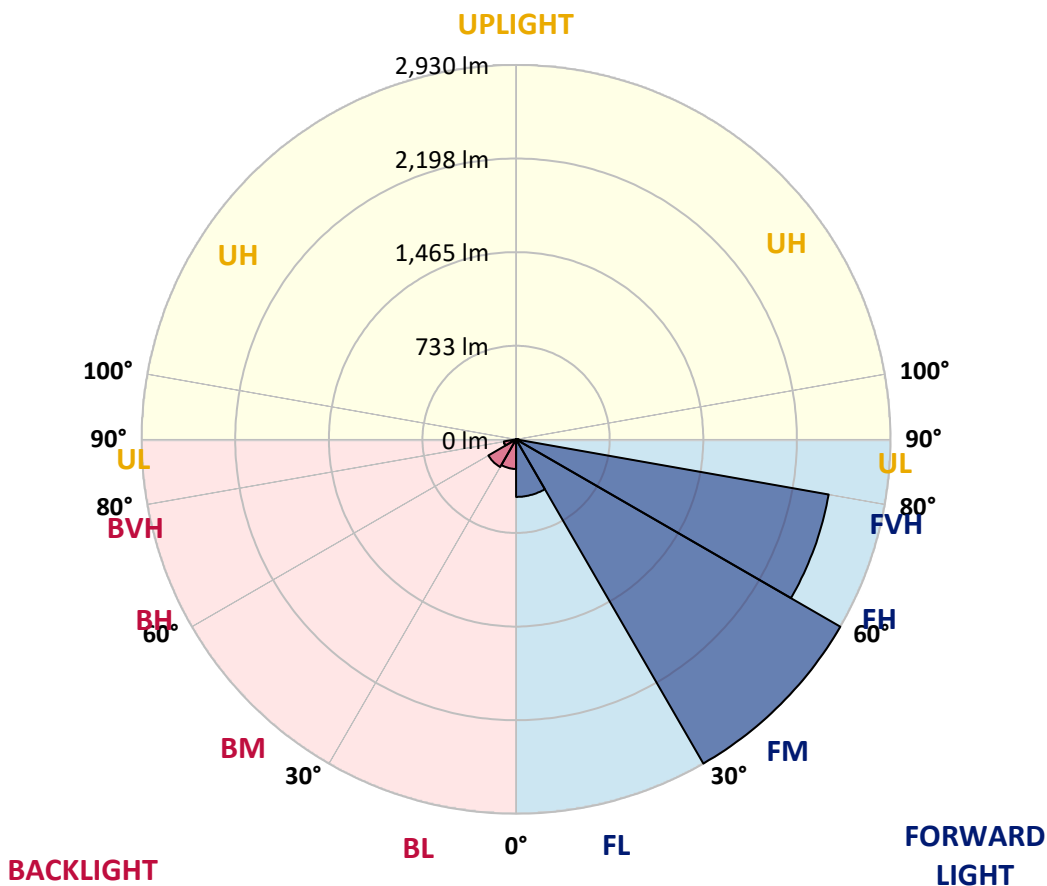
CATALOG NUMBER: GWS-SA3B-830-U-T3R-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.7	7.0			
FM (30°-60°)	2930.3	45.3			
FH (60°-80°)	2484.5	38.4			G2/5000
FVH (80°-90°)	21.8	0.3			G1/100
BL (0°-30°)	231.4	3.6	B1/500		
BM (30°-60°)	250.2	3.9	B1/1000		
BH (60°-80°)	96.9	1.5	B0/110		G0/110
BVH (80°-90°)	2.5	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 Medium





REPORT NUMBER: P634542

CATALOG NUMBER: GWS-SA3B-830-U-T3R-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3
2.5°	1085.7	1084.0	1085.2	1094.0	1110.6	1118.3	1131.4	1133.7	1144.4	1158.0	1163.3
5°	1015.3	1009.3	1012.3	1024.7	1043.7	1065.0	1089.3	1095.8	1122.5	1152.7	1175.2
7.5°	950.7	944.2	951.3	970.8	997.5	1020.6	1056.7	1060.9	1103.5	1156.8	1197.7
10°	849.4	851.2	865.4	899.8	940.6	988.6	1037.2	1043.1	1095.8	1170.4	1233.8
12.5°	771.8	767.7	783.1	822.2	879.6	949.5	1022.4	1030.1	1096.4	1191.2	1280.0
15°	735.7	734.5	741.0	769.4	825.1	907.5	1008.7	1018.8	1104.1	1210.1	1323.9
17.5°	736.9	735.1	734.5	751.1	792.5	876.1	993.9	1007.0	1110.6	1230.9	1370.1
20°	788.4	780.1	765.3	757.6	782.5	855.9	983.9	998.7	1120.1	1252.8	1419.2
22.5°	896.2	899.2	859.5	818.0	806.2	858.3	982.7	999.9	1140.8	1287.1	1479.6
25°	1111.8	1107.1	1033.6	940.6	876.1	885.5	1003.4	1024.1	1181.7	1336.3	1536.5
27.5°	1381.9	1386.1	1285.4	1137.3	1002.2	941.8	1041.3	1062.0	1229.1	1367.1	1574.4
30°	1676.3	1672.2	1564.3	1400.3	1181.1	1035.4	1079.2	1097.6	1252.8	1383.7	1613.5
32.5°	1954.7	1945.2	1838.6	1666.8	1409.2	1182.9	1131.4	1142.0	1284.2	1419.8	1666.2
35°	2192.2	2191.6	2098.6	1915.6	1643.7	1367.7	1220.8	1229.7	1342.8	1477.3	1743.8
37.5°	2437.4	2429.1	2324.9	2157.9	1884.8	1570.3	1357.6	1354.1	1435.2	1562.0	1839.2
40°	2638.8	2633.5	2553.5	2393.0	2135.4	1794.2	1523.5	1512.8	1544.8	1679.3	1971.9
42.5°	2788.1	2788.7	2763.8	2666.1	2400.7	2053.0	1732.0	1715.4	1714.8	1856.4	2147.2
45°	2901.2	2908.9	2946.3	2931.4	2714.1	2354.5	1999.1	1981.9	1952.9	2086.2	2348.0
47.5°	2954.0	2964.0	3076.6	3135.8	2988.3	2653.6	2317.2	2281.1	2224.2	2391.8	2572.5
50°	2948.6	2966.4	3123.4	3303.4	3237.1	2956.9	2663.7	2646.5	2553.5	2715.2	2794.6
52.5°	2827.8	2865.7	3126.3	3405.3	3428.4	3236.5	3022.1	2990.1	2945.1	3052.9	3003.1
55°	2499.6	2545.8	3001.3	3437.9	3577.7	3480.5	3372.7	3346.7	3272.0	3371.5	3185.0
57.5°	2321.3	2361.0	2738.3	3421.9	3704.4	3706.2	3684.9	3663.6	3602.0	3686.7	3398.2
60°	2214.1	2253.8	2598.0	3363.3	3819.3	3944.3	3978.1	3975.7	3886.9	4045.0	3648.2
62.5°	2057.2	2111.7	2451.7	3211.0	3901.1	4178.9	4280.8	4264.8	4165.9	4418.2	3895.8
65°	1740.3	1787.7	2151.9	2959.9	3853.1	4373.2	4608.9	4617.2	4502.9	4769.4	4091.2
67.5°	1220.2	1255.1	1617.1	2432.7	3527.3	4437.2	4944.8	4944.2	4749.3	4949.5	4004.7
70°	707.2	755.2	955.4	1503.9	2744.3	4146.3	4995.1	5012.3	4649.2	4573.4	3314.1
72.5°	273.7	313.3	541.4	799.1	1431.1	3176.1	4296.8	4347.1	3891.0	3527.9	2306.5
75°	81.7	91.2	254.7	425.3	574.6	1534.1	2908.9	2923.2	2669.0	2200.5	1182.3
77.5°	61.0	67.5	111.4	215.0	201.4	465.0	1505.1	1643.7	1416.9	786.0	325.8
80°	41.5	49.2	79.4	104.8	74.6	123.8	422.9	464.4	432.4	176.5	81.7
82.5°	18.4	23.7	56.3	52.7	27.2	35.5	130.3	138.6	89.4	53.3	28.4
85°	1.8	2.4	21.3	23.1	10.1	8.3	27.2	27.2	19.5	18.4	11.8
87.5°	0.0	0.0	0.6	1.2	1.2	1.8	2.4	3.0	3.6	4.7	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P634542  
 CATALOG NUMBER: GWS-SA3B-830-U-T3R-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3
2.5°	1177.0	1169.9	1178.7	1185.8	1187.6	1174.6	1166.9	1155.6	1153.3	1153.9	1150.9
5°	1193.0	1189.4	1195.9	1188.2	1168.1	1130.2	1097.6	1061.5	1041.9	1030.7	1029.5
7.5°	1222.6	1220.8	1213.7	1178.7	1116.0	1031.8	950.7	871.3	822.2	804.4	801.4
10°	1266.4	1262.8	1233.8	1150.9	1017.0	855.3	719.1	605.4	536.1	515.9	491.0
12.5°	1316.8	1309.6	1246.3	1091.1	867.8	643.9	473.9	346.5	286.7	268.9	268.9
15°	1365.3	1349.9	1239.2	992.2	684.1	418.8	264.8	200.2	181.8	177.1	177.1
17.5°	1415.1	1385.5	1211.3	857.1	472.7	247.6	176.5	164.1	161.7	162.3	162.9
20°	1461.9	1415.7	1162.2	694.8	301.5	173.0	158.2	155.2	154.0	155.2	154.6
22.5°	1512.8	1443.5	1087.5	517.7	196.1	155.8	150.5	148.1	146.9	148.7	148.7
25°	1563.2	1463.6	988.6	348.3	155.8	145.1	142.2	139.8	138.6	139.2	139.2
27.5°	1589.2	1455.9	858.9	222.1	139.8	134.5	131.5	128.5	126.8	126.2	126.8
30°	1607.0	1432.3	700.1	158.2	126.8	120.2	117.3	114.9	110.2	107.2	108.4
32.5°	1634.8	1408.6	527.8	132.7	116.1	106.0	101.3	95.4	88.8	85.9	85.9
35°	1668.0	1376.0	370.2	119.7	104.8	94.2	85.3	75.2	67.5	65.2	65.2
37.5°	1711.8	1345.2	246.4	110.8	95.4	84.1	71.7	59.8	51.5	50.3	49.8
40°	1777.6	1319.1	173.6	104.3	87.1	73.4	58.6	46.2	40.3	38.5	38.5
42.5°	1862.9	1292.5	137.4	97.7	80.0	63.4	46.8	36.7	32.0	30.8	30.2
45°	1968.3	1261.1	119.7	91.8	72.9	52.7	37.3	30.8	27.2	26.1	26.1
47.5°	2082.6	1218.4	111.4	84.1	64.6	42.6	31.4	26.7	24.9	24.3	23.7
50°	2195.2	1161.0	104.3	77.0	55.1	34.9	27.2	24.3	23.1	22.5	22.5
52.5°	2293.5	1094.0	95.4	68.7	45.0	30.2	24.3	22.5	21.3	20.1	19.5
55°	2377.6	1021.2	84.1	59.2	36.7	26.7	22.5	20.7	19.5	18.4	17.8
57.5°	2486.0	979.7	67.5	48.0	30.2	23.7	20.7	19.0	17.8	16.0	16.0
60°	2606.3	949.5	50.3	37.9	26.1	21.9	19.0	17.2	16.0	14.2	14.2
62.5°	2702.8	904.5	39.7	30.8	22.5	19.5	17.2	15.4	14.2	12.4	12.4
65°	2739.5	811.5	32.6	24.3	18.4	17.2	15.4	14.2	12.4	10.7	10.7
67.5°	2573.7	625.5	27.2	19.5	15.4	14.8	13.6	13.0	10.7	9.5	8.9
70°	2038.2	381.5	22.5	16.0	13.0	12.4	12.4	11.3	9.5	8.9	8.3
72.5°	1396.7	196.7	18.4	13.0	11.3	11.3	10.7	10.1	8.9	8.3	8.3
75°	725.6	65.7	14.2	10.1	8.9	9.5	9.5	8.9	8.3	8.3	7.7
77.5°	207.9	29.6	10.7	7.7	7.1	7.1	7.7	7.7	7.7	7.1	7.1
80°	53.9	17.2	7.7	5.9	5.9	5.9	5.9	6.5	7.1	6.5	6.5
82.5°	21.9	9.5	5.3	4.7	4.7	4.7	4.7	5.3	5.9	5.9	5.9
85°	13.6	4.7	4.1	4.1	4.1	3.6	3.6	4.1	4.1	4.7	4.7
87.5°	8.3	3.6	3.6	3.6	3.6	3.0	3.0	3.0	3.0	3.0	3.0
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)