

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: P631046

Luminaire Tested: GWS-SA1E-830-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631046  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-830-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

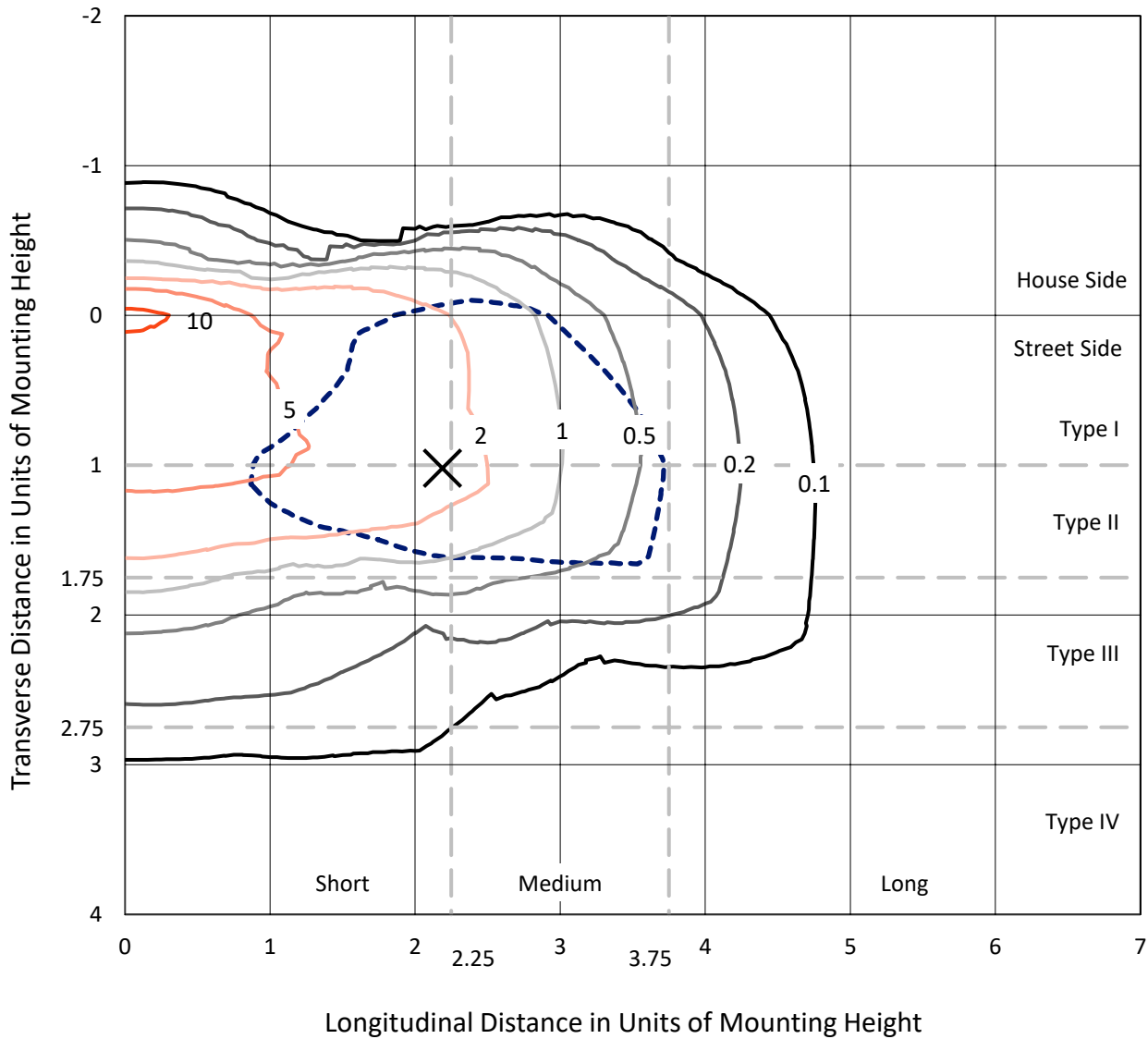
Lumens per Lamp: N/A  
Luminaire Lumens: 4771.8 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

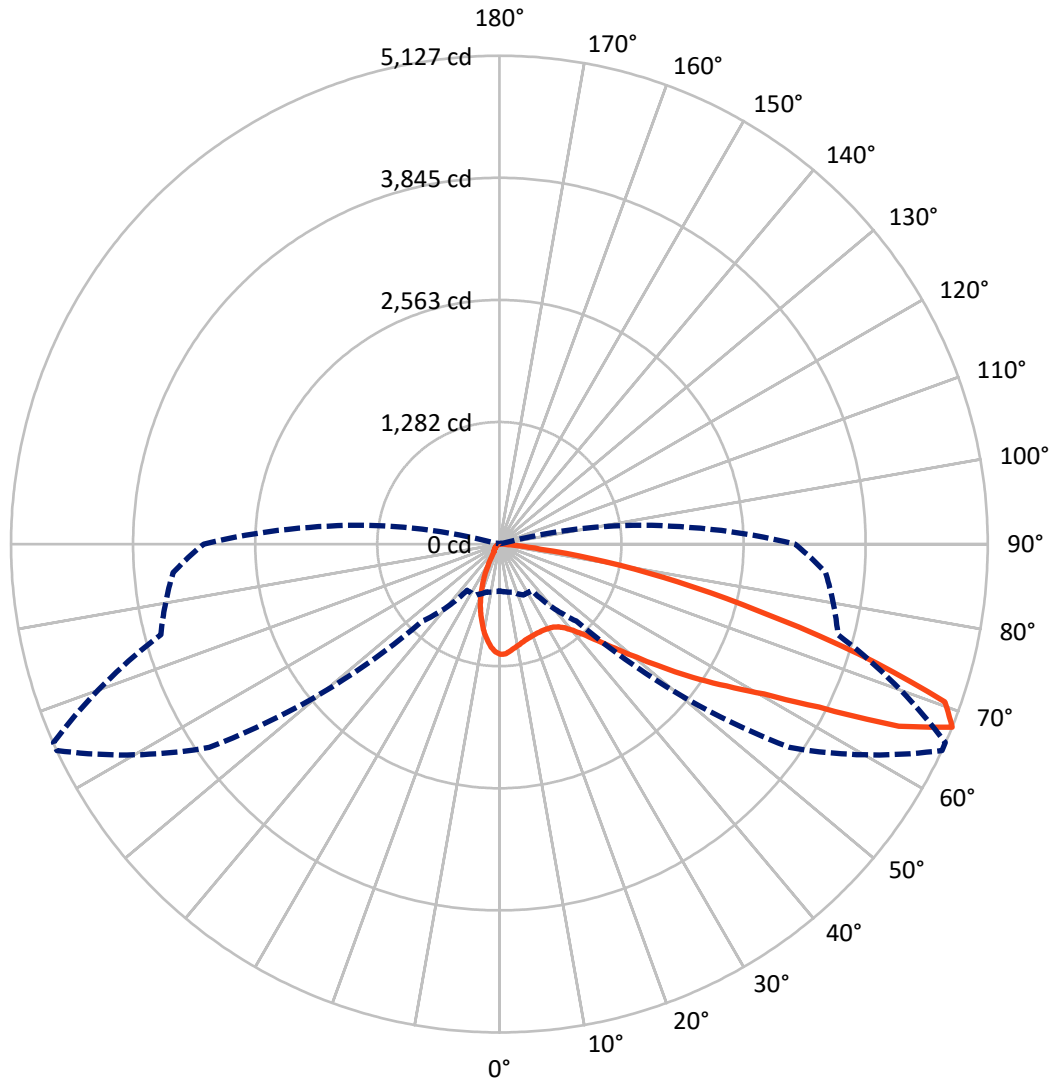
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P631046  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: GWS-SA1E-830-U-SL2-W-HSS

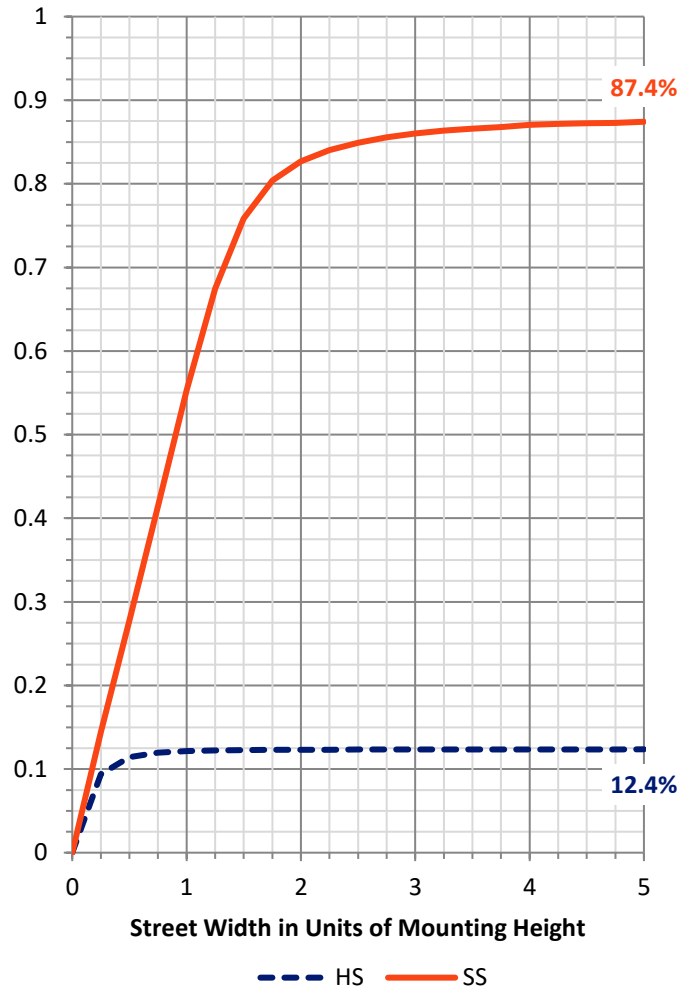
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	595.9	0.0	595.9
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	4175.9	0.0	4175.9
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	4771.8	0.0	4771.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.1	2.0
10°-20°	216.1	4.5
20°-30°	308.8	6.5
30°-40°	449.2	9.4
40°-50°	703.5	14.7
50°-60°	1097.5	23.0
60°-70°	1205.6	25.3
70°-80°	641.6	13.4
80°-90°	53.4	1.1
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°	4771.8	100.0
0°-180°	4771.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P631046

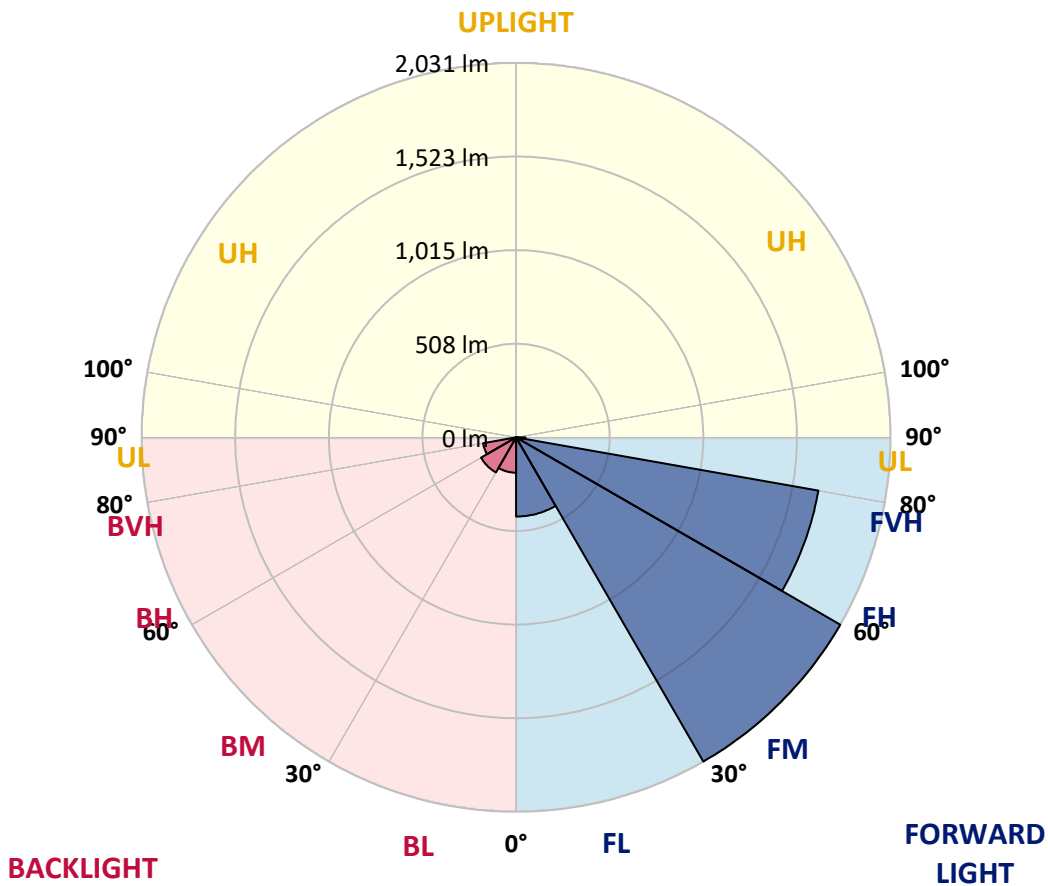
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	429.4	9.0			
FM (30°-60°)	2030.8	42.6			
FH (60°-80°)	1665.2	34.9			G1/1800
FVH (80°-90°)	50.6	1.1			G1/100
BL (0°-30°)	191.5	4.0	B1/500		
BM (30°-60°)	219.5	4.6	B0/220		
BH (60°-80°)	182.0	3.8	B1/500		G1/500
BVH (80°-90°)	2.9	0.1			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°	66°	75°	85°
0°	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3
2.5°	1117.2	1120.6	1115.9	1127.5	1129.7	1142.6	1150.0	1155.2	1154.7	1161.2	1161.2
5°	1051.6	1055.0	1052.5	1065.0	1074.9	1095.2	1112.0	1131.4	1132.3	1152.1	1159.5
7.5°	995.9	996.4	996.4	1011.9	1024.8	1049.9	1074.9	1104.7	1108.1	1138.8	1158.2
10°	950.2	951.5	951.9	969.6	983.8	1014.1	1046.0	1081.8	1085.7	1127.1	1157.3
12.5°	918.7	919.1	920.8	939.4	954.9	986.4	1018.8	1059.8	1065.0	1113.7	1153.4
15°	903.6	902.7	903.6	919.1	934.7	964.9	998.1	1042.1	1047.7	1102.5	1153.9
17.5°	902.7	901.4	900.6	912.2	922.1	948.9	982.5	1030.4	1036.5	1097.3	1158.6
20°	915.2	914.4	910.1	915.2	917.4	939.4	972.6	1021.4	1027.4	1096.5	1169.0
22.5°	948.0	945.9	939.4	934.7	923.0	935.9	965.7	1014.9	1021.8	1098.6	1182.3
25°	996.8	995.9	987.7	976.1	946.3	941.1	966.2	1014.9	1021.4	1101.2	1196.6
27.5°	1070.1	1065.0	1054.6	1034.3	991.6	961.4	974.8	1017.5	1024.0	1104.7	1208.2
30°	1144.8	1144.4	1140.9	1120.2	1056.8	1000.2	992.9	1024.4	1030.4	1107.7	1219.0
32.5°	1222.0	1223.3	1232.0	1216.0	1146.5	1058.1	1025.7	1038.6	1043.0	1113.7	1228.5
35°	1295.4	1298.0	1320.9	1326.5	1255.7	1145.7	1079.2	1067.1	1067.6	1127.1	1241.0
37.5°	1365.7	1374.4	1411.0	1438.2	1391.6	1251.8	1156.4	1115.5	1112.0	1153.9	1260.0
40°	1445.6	1462.0	1508.1	1554.3	1539.6	1392.1	1261.7	1189.7	1182.3	1203.1	1294.1
42.5°	1534.0	1551.7	1613.0	1677.7	1684.6	1561.6	1393.3	1298.0	1285.5	1285.9	1358.0
45°	1629.0	1652.7	1723.9	1817.1	1858.9	1750.6	1555.6	1444.3	1431.8	1413.2	1460.7
47.5°	1753.7	1774.4	1843.0	1950.4	2030.7	1953.4	1768.3	1632.4	1609.5	1582.3	1620.3
50°	1861.1	1879.2	1938.3	2073.0	2240.0	2214.9	2009.5	1867.6	1845.6	1799.4	1830.9
52.5°	1884.8	1899.1	1953.4	2104.9	2400.1	2545.1	2305.1	2151.9	2136.4	2051.0	2063.1
55°	1778.3	1799.8	1848.6	2016.9	2441.9	2867.8	2688.7	2472.6	2440.2	2303.8	2325.4
57.5°	1509.0	1547.4	1593.1	1811.9	2328.4	3039.6	3224.7	2812.2	2782.8	2547.2	2547.6
60°	1106.0	1137.0	1167.7	1367.9	2059.2	3027.9	3711.0	3193.6	3140.1	2746.1	2738.8
62.5°	804.3	820.3	819.9	891.1	1414.1	2828.6	3966.4	3768.4	3643.7	2958.9	2917.0
65°	632.6	632.2	650.7	674.0	789.7	2183.4	3997.9	4607.7	4473.0	3244.1	3156.9
67.5°	492.4	501.8	520.4	589.0	593.3	1142.6	3720.9	5126.8	5124.2	3679.5	3437.8
70°	379.7	392.7	419.0	519.1	548.0	639.5	2784.1	4962.4	5004.2	3874.1	3238.9
72.5°	243.8	242.9	281.8	419.4	526.4	532.9	1539.6	3941.9	3989.3	3509.0	2618.8
75°	136.4	137.2	159.2	256.7	490.6	501.4	762.5	2810.9	2848.4	2735.8	2012.1
77.5°	53.5	55.2	74.7	135.1	323.6	447.9	453.1	1916.8	1922.4	1695.4	1234.1
80°	21.6	22.9	38.0	83.7	197.2	301.6	323.6	1129.3	1106.4	656.3	359.0
82.5°	6.5	6.9	15.1	47.5	103.1	214.5	218.3	433.2	409.1	141.1	91.5
85°	0.4	0.4	3.5	14.7	36.7	53.9	145.4	141.1	125.1	35.4	40.6
87.5°	0.0	0.0	0.4	0.4	0.9	1.7	15.5	25.9	26.3	6.5	18.1
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: P631046  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3	1157.3
2.5°	1161.2	1145.7	1144.4	1132.3	1120.2	1105.1	1087.4	1074.5	1065.4	1049.4	1046.4
5°	1159.5	1138.8	1119.3	1084.8	1046.4	1005.0	968.7	935.1	913.9	899.7	893.7
7.5°	1156.0	1129.7	1084.8	1019.7	955.4	882.9	826.3	774.6	739.2	718.5	709.4
10°	1153.4	1118.0	1045.1	946.3	846.6	746.5	660.6	583.8	541.1	507.5	501.8
12.5°	1148.3	1101.2	994.2	860.4	731.8	598.9	489.3	395.3	330.1	300.8	290.4
15°	1143.1	1083.5	943.3	769.8	606.7	442.7	309.8	219.2	174.3	160.5	159.7
17.5°	1142.2	1067.6	888.0	683.9	475.5	290.0	176.5	142.0	132.5	129.0	129.0
20°	1144.8	1054.2	833.7	585.1	346.5	176.5	131.6	123.0	117.4	114.4	114.4
22.5°	1147.4	1040.4	781.5	485.4	230.0	129.0	116.1	108.7	102.3	98.8	97.1
25°	1149.1	1025.3	723.6	385.3	150.2	112.2	101.8	92.3	84.6	80.3	80.3
27.5°	1148.7	1007.1	665.4	287.4	116.5	99.7	87.2	77.2	69.5	64.7	65.2
30°	1145.2	987.3	605.0	200.7	101.8	87.2	74.7	64.3	56.5	52.6	52.2
32.5°	1142.6	966.2	535.1	141.1	91.5	76.4	63.4	53.5	47.0	44.0	43.6
35°	1139.6	945.4	468.6	107.4	82.4	66.0	53.5	45.3	40.1	37.5	37.5
37.5°	1140.5	923.9	396.6	92.3	73.4	57.4	45.7	38.8	34.5	31.9	31.5
40°	1153.9	910.9	325.8	83.7	65.2	49.6	39.7	33.7	29.3	26.8	26.3
42.5°	1187.1	911.4	258.0	77.2	57.8	42.3	34.5	28.9	25.0	22.0	21.6
45°	1253.5	929.5	198.1	70.3	50.1	36.7	29.8	24.6	20.7	18.1	17.7
47.5°	1362.3	983.4	150.2	64.3	43.6	31.9	25.5	20.7	17.3	15.1	14.7
50°	1535.3	1080.9	118.2	57.0	36.7	27.6	21.6	17.3	14.2	12.1	11.7
52.5°	1743.3	1227.2	101.4	50.5	31.5	24.2	18.6	14.2	11.7	9.9	9.5
55°	1982.4	1402.0	93.6	44.0	26.8	20.7	15.1	11.7	9.5	8.2	7.3
57.5°	2201.6	1559.5	93.2	37.5	22.9	17.7	12.5	9.9	8.2	6.5	6.0
60°	2415.2	1691.1	87.6	31.1	19.8	14.7	10.8	8.2	6.9	5.6	5.2
62.5°	2608.9	1798.1	73.4	25.0	16.8	12.1	9.1	7.3	6.0	4.7	4.7
65°	2852.3	1934.5	56.1	20.3	13.8	9.9	7.8	6.5	5.6	4.3	4.3
67.5°	3103.9	2006.5	40.1	16.8	11.2	8.6	6.9	6.0	4.7	3.9	3.9
70°	2811.3	1695.4	28.9	13.8	9.5	7.3	6.0	5.6	4.7	3.9	3.5
72.5°	2195.5	1222.5	21.6	10.8	8.2	6.9	5.6	5.2	4.3	3.5	3.5
75°	1628.1	712.9	16.4	8.6	6.5	5.6	5.6	5.2	4.3	3.5	3.0
77.5°	885.0	248.6	12.5	6.9	5.2	4.3	4.7	4.7	3.9	3.0	2.6
80°	234.3	68.2	8.6	5.2	4.3	3.5	3.5	4.3	3.5	2.6	2.6
82.5°	68.2	19.8	6.0	4.3	3.5	3.0	3.0	3.0	2.6	2.2	1.7
85°	33.2	7.3	4.3	3.5	3.0	2.6	2.2	2.2	1.7	1.3	1.3
87.5°	14.7	3.0	3.5	3.0	3.0	2.2	1.7	1.3	1.3	0.9	0.4
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)