

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P600752

Luminaire Tested: **ASWPLED1S-20W-4000K**

Issue Date: 7/7/2022

Test Information

Test Method: LM-79-08
Report Number: P600752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (20210926)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/7/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: ASWPLED1S-20W-4000K
Description: SLIM WALL PACK, WATTAGE AND CCT SELECTABLE
Light Source: (98) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2667 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 0.55' x L: 0.25' x H: 0')
IES Classification: Type V - Short
BUG Rating: B1 - U0 - G0

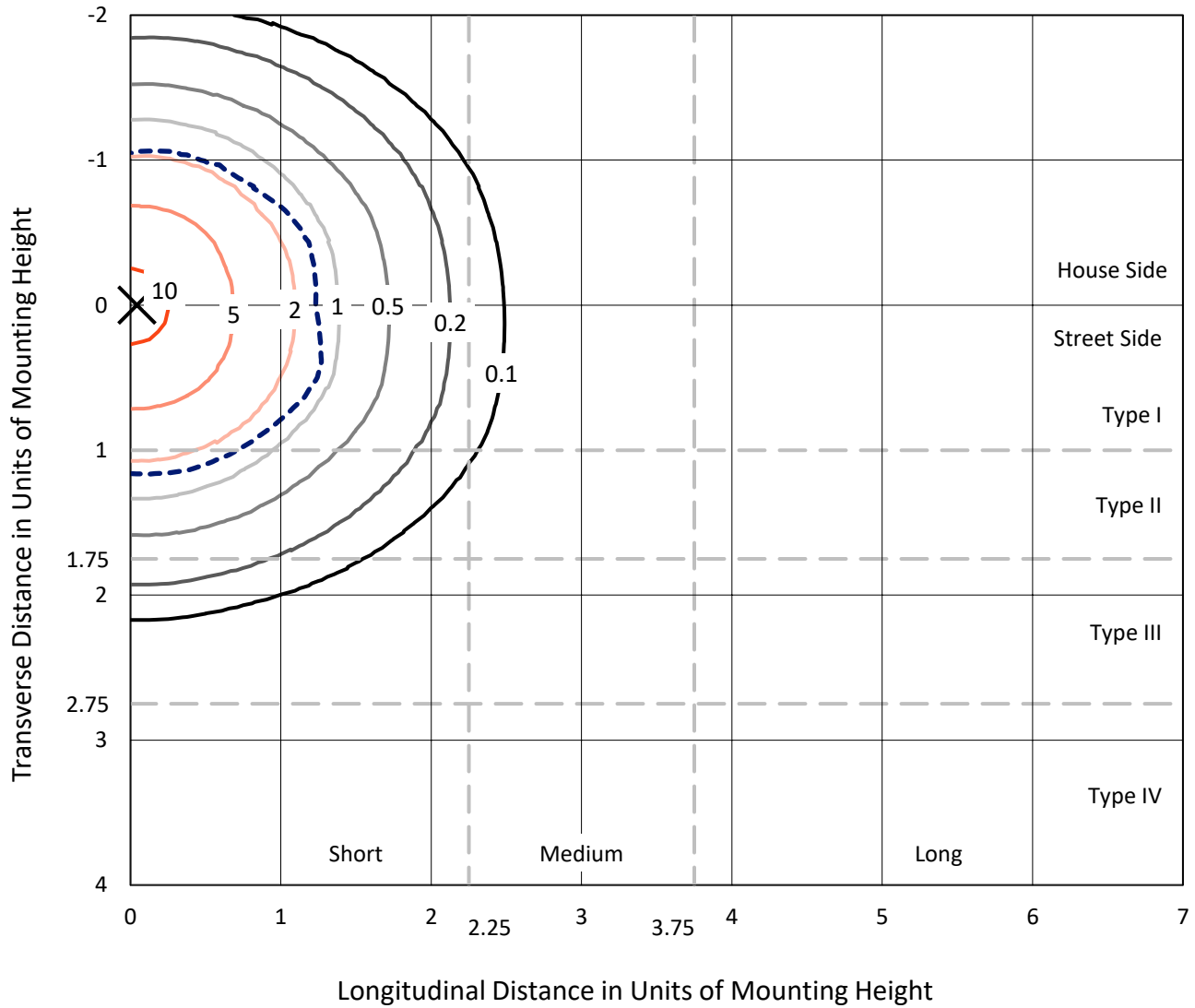
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

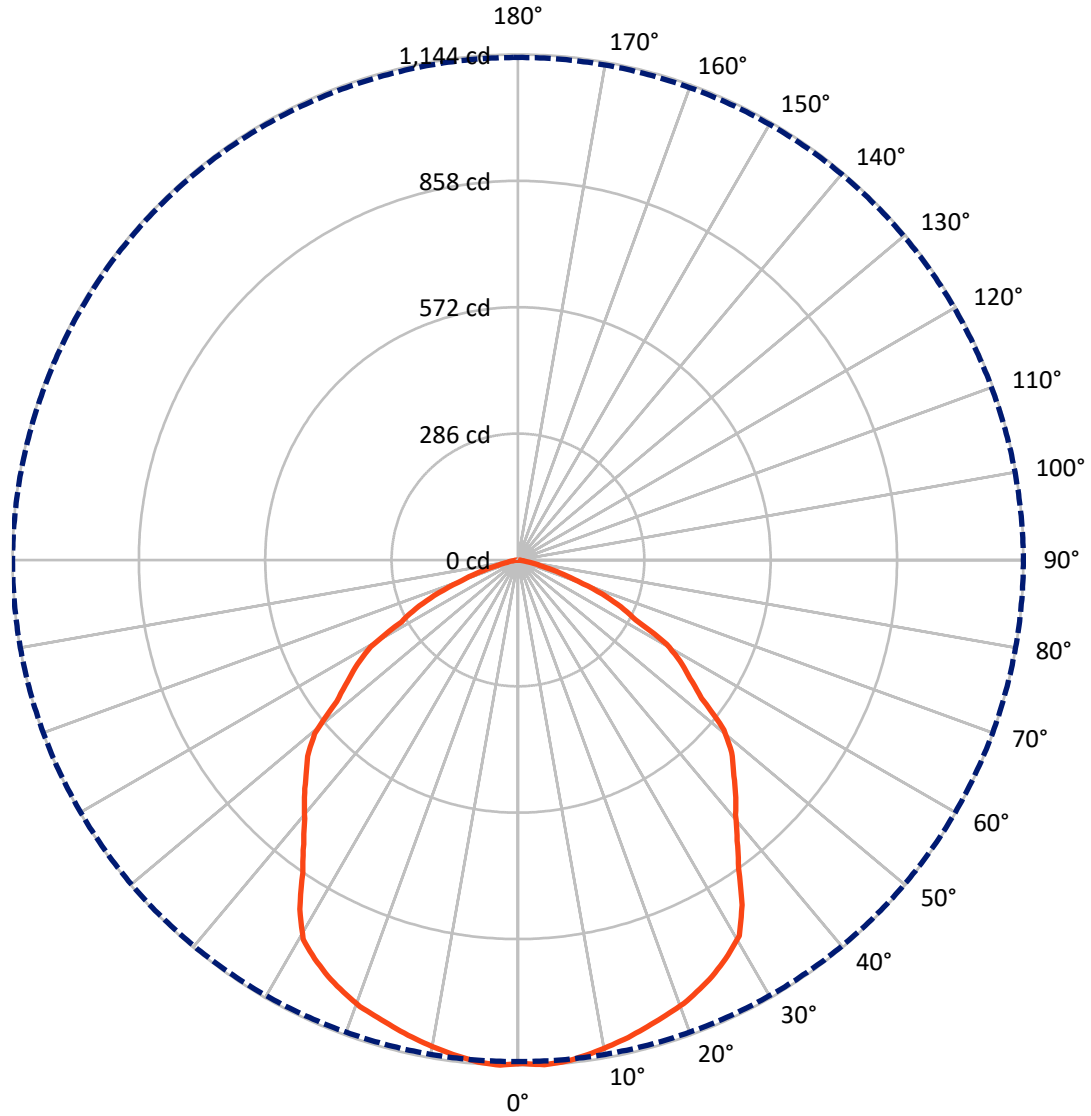
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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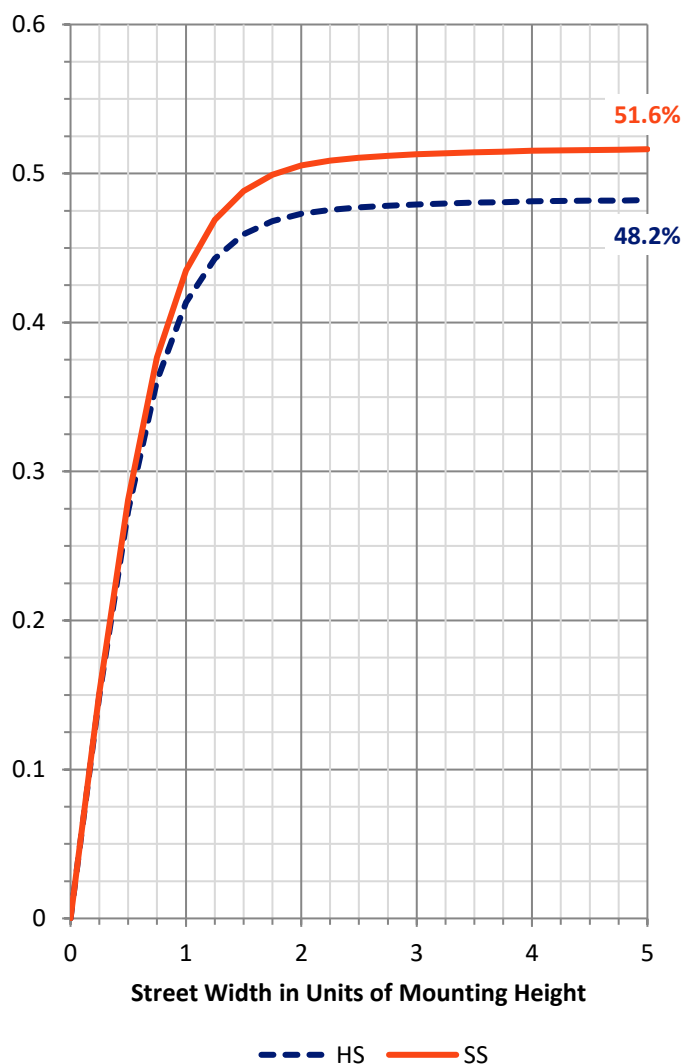
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1292.8	0.0	1292.8
	% Fixture	48.5	0.0	48.5
Street Side	Lumens	1374.2	0.0	1374.2
	% Fixture	51.5	0.0	51.5
Total	Lumens	2667.0	0.0	2667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	4.1
10°-20°	311.4	11.7
20°-30°	480.6	18.0
30°-40°	570.1	21.4
40°-50°	534.1	20.0
50°-60°	399.5	15.0
60°-70°	201.3	7.5
70°-80°	56.3	2.1
80°-90°	5.5	0.2
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°	2667.0	100.0
0°-180°	2667.0	100.0

Coefficient of Utilization



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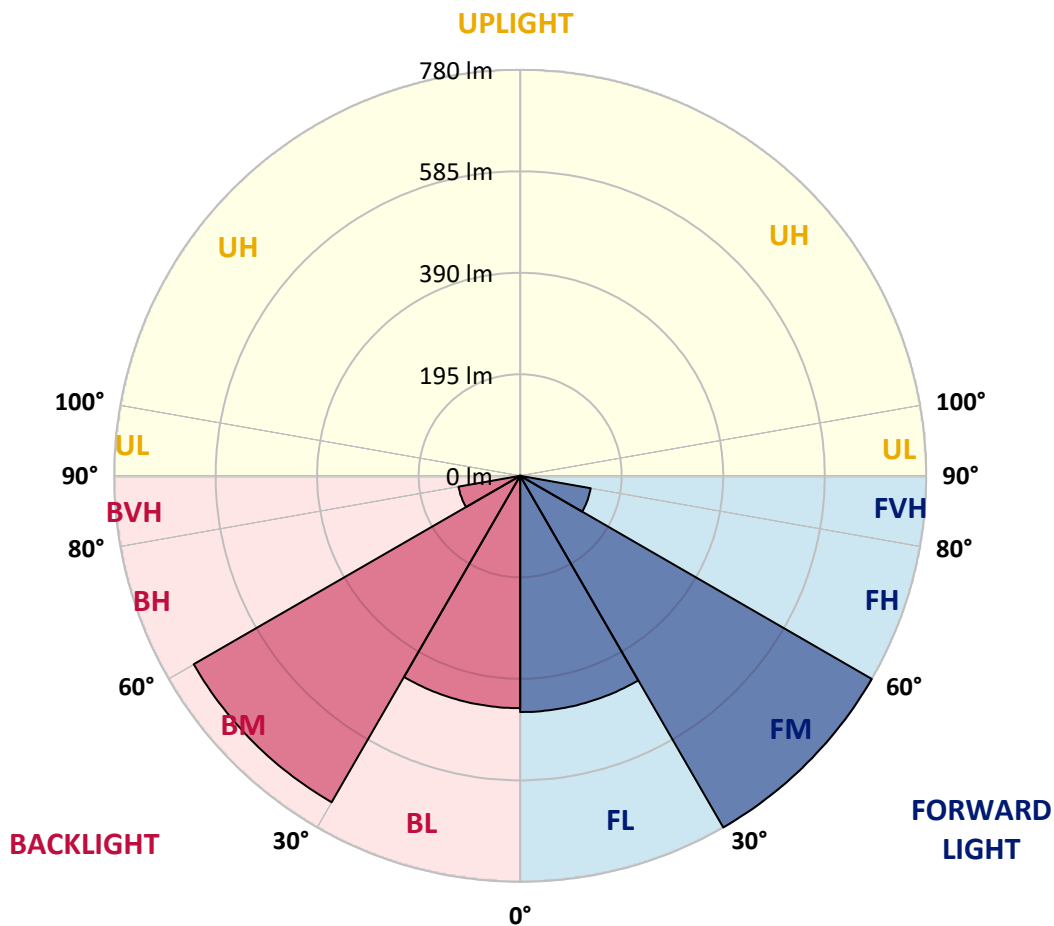
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	453.8	17.0			
FM (30°-60°)	779.8	29.2			
FH (60°-80°)	137.5	5.2			G0/660
FVH (80°-90°)	3.2	0.1			G0/10
BL (0°-30°)	446.3	16.7	B1/500		
BM (30°-60°)	724.0	27.1	B1/1000		
BH (60°-80°)	120.1	4.5	B1/500		G0/660
BVH (80°-90°)	2.4	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-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1
2.5°	1134.8	1135.8	1136.8	1138.4	1140.3	1141.6	1142.3	1142.9	1143.2	1143.6	1142.0
5°	1132.1	1134.1	1136.1	1137.8	1139.4	1140.4	1140.9	1141.1	1140.4	1139.6	1140.0
7.5°	1130.0	1131.1	1132.1	1132.9	1133.5	1134.2	1134.9	1134.9	1132.6	1130.4	1130.2
10°	1126.9	1128.0	1129.0	1128.5	1127.5	1127.2	1127.7	1127.2	1123.4	1119.6	1120.5
12.5°	1121.4	1121.5	1121.7	1121.0	1120.0	1118.2	1115.5	1112.9	1110.8	1108.6	1108.9
15°	1113.0	1112.8	1112.6	1111.9	1111.2	1108.8	1104.7	1100.9	1098.3	1095.7	1096.1
17.5°	1103.2	1102.1	1101.0	1100.3	1099.8	1097.4	1092.9	1088.8	1086.0	1083.2	1083.3
20°	1092.8	1092.5	1092.3	1090.2	1087.5	1084.3	1080.5	1076.9	1074.2	1071.4	1071.5
22.5°	1080.2	1080.8	1081.4	1078.0	1073.1	1069.2	1066.1	1062.8	1058.6	1054.4	1054.1
25°	1064.9	1065.0	1065.1	1061.7	1057.2	1053.0	1049.2	1045.2	1040.3	1035.4	1035.0
27.5°	1049.7	1047.9	1046.0	1043.4	1040.6	1036.6	1031.3	1025.7	1019.1	1012.5	1012.2
30°	1027.9	1026.6	1025.3	1023.4	1021.3	1017.1	1010.7	1003.7	995.1	986.4	986.4
32.5°	1002.9	1001.1	999.3	997.9	996.6	991.9	983.7	972.5	951.9	931.3	934.6
35°	962.5	966.1	969.7	969.5	968.1	960.6	946.9	928.1	893.9	859.7	860.5
37.5°	871.5	889.5	907.6	920.7	932.1	923.3	894.2	864.9	835.2	805.6	802.1
40°	808.5	815.1	821.7	849.5	884.2	881.4	840.9	804.7	781.6	758.4	759.0
42.5°	767.3	769.6	772.0	801.5	840.1	836.1	789.5	750.9	736.5	722.1	724.0
45°	671.5	695.0	718.4	745.3	773.4	771.8	740.7	713.7	698.7	683.7	688.1
47.5°	613.1	622.2	631.4	649.4	670.3	680.7	680.7	677.4	664.0	650.7	653.7
50°	561.7	569.8	578.0	587.8	598.2	612.1	629.5	638.4	621.4	604.4	610.8
52.5°	464.4	481.2	498.1	513.4	528.0	549.8	578.8	591.5	555.8	520.2	531.7
55°	416.9	421.4	425.9	434.9	445.4	469.9	508.3	530.0	501.4	472.9	476.3
57.5°	327.0	342.1	357.3	375.4	394.6	422.1	457.8	478.9	455.9	432.8	434.6
60°	264.7	278.5	292.3	307.2	322.4	352.6	397.8	426.7	406.6	386.5	385.9
62.5°	203.9	211.2	218.4	239.5	265.2	294.9	328.6	347.8	323.4	299.0	305.7
65°	140.4	146.1	151.8	172.6	198.4	225.6	254.1	273.3	264.7	256.0	249.2
67.5°	84.4	90.4	96.4	117.9	144.6	173.0	203.3	223.8	214.9	206.0	200.5
70°	74.7	73.3	71.9	81.2	93.9	115.2	145.0	164.7	154.5	144.3	136.9
72.5°	61.6	61.1	60.7	60.5	60.4	71.2	92.8	107.9	103.5	99.1	94.8
75°	46.6	46.6	46.5	45.5	44.2	50.1	63.0	70.9	63.5	56.1	55.8
77.5°	32.4	32.4	32.4	32.1	31.8	33.4	36.7	38.3	34.3	30.3	30.7
80°	19.4	19.4	19.5	19.6	19.7	19.4	18.7	17.7	16.1	14.5	14.4
82.5°	9.3	9.4	9.5	9.7	10.0	10.1	10.1	9.7	8.1	6.6	6.8
85°	3.2	3.2	3.1	3.2	3.4	3.6	3.9	3.9	3.3	2.6	2.7
87.5°	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.2
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):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1
2.5°	1140.4	1140.0	1140.0	1139.3	1138.1	1137.2	1137.1	1137.0
5°	1140.3	1138.2	1135.3	1134.1	1134.7	1135.0	1134.3	1133.5
7.5°	1130.1	1129.9	1129.6	1129.4	1129.2	1129.0	1128.9	1128.9
10°	1121.5	1121.5	1121.2	1121.3	1121.7	1121.6	1120.1	1118.5
12.5°	1109.2	1110.1	1111.2	1111.0	1109.4	1108.1	1107.7	1107.3
15°	1096.6	1097.2	1097.9	1097.6	1096.3	1095.2	1095.0	1094.7
17.5°	1083.5	1082.7	1081.5	1080.7	1080.4	1080.4	1081.3	1082.3
20°	1071.7	1069.4	1066.3	1065.0	1065.3	1065.6	1065.5	1065.4
22.5°	1053.7	1052.0	1049.8	1048.7	1048.8	1048.6	1047.8	1046.9
25°	1034.7	1033.3	1031.5	1029.6	1027.7	1026.3	1026.3	1026.3
27.5°	1011.9	1010.6	1009.0	1007.7	1006.5	1005.2	1004.0	1002.8
30°	986.5	985.6	984.3	982.8	981.0	979.3	977.9	976.6
32.5°	938.0	945.1	953.4	955.8	952.4	949.4	947.7	946.0
35°	861.4	883.8	913.5	925.9	921.2	912.4	891.8	871.1
37.5°	798.7	828.8	870.1	879.5	857.1	835.0	813.7	792.3
40°	759.6	782.1	811.9	812.1	782.8	759.9	756.5	753.1
42.5°	726.0	733.1	741.9	740.2	727.8	714.8	700.3	685.9
45°	692.6	687.7	679.8	671.2	662.1	648.8	623.1	597.5
47.5°	656.8	636.6	608.7	589.5	579.0	569.6	563.7	557.9
50°	617.1	593.8	560.5	540.2	532.8	520.9	495.3	469.7
52.5°	543.2	528.7	505.5	482.2	458.8	438.3	426.7	415.0
55°	479.7	458.2	428.5	406.4	391.7	375.7	355.5	335.4
57.5°	436.4	412.2	379.3	349.6	323.0	301.3	293.9	286.5
60°	385.3	353.8	311.9	282.5	265.7	248.7	231.1	213.5
62.5°	312.4	289.6	257.1	227.6	201.1	179.0	170.0	161.0
65°	242.4	219.9	192.2	166.3	142.1	122.0	114.6	107.1
67.5°	195.0	172.1	143.4	118.7	98.2	83.1	84.1	85.1
70°	129.5	114.4	96.7	83.6	75.1	69.1	70.8	72.5
72.5°	90.5	77.2	60.9	53.2	54.0	54.9	55.8	56.7
75°	55.6	49.6	41.8	38.3	39.1	39.8	40.3	40.7
77.5°	31.1	29.5	27.2	26.0	26.0	25.9	26.0	26.2
80°	14.2	14.5	14.9	14.9	14.5	14.2	14.3	14.3
82.5°	7.0	7.1	7.1	6.9	6.4	6.0	5.9	5.9
85°	2.8	2.6	2.4	2.2	2.0	1.9	2.1	2.3
87.5°	1.3	1.3	1.2	1.1	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)