

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: McGRAW-EDISON

Report Number: P197540

Luminaire Tested: **TT-C2-LED-E1-CQ-MS/DIM-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197540  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115423)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-C2-LED-E1-CQ-MS/DIM-7060  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR  
Light Source: (168) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4372.8 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

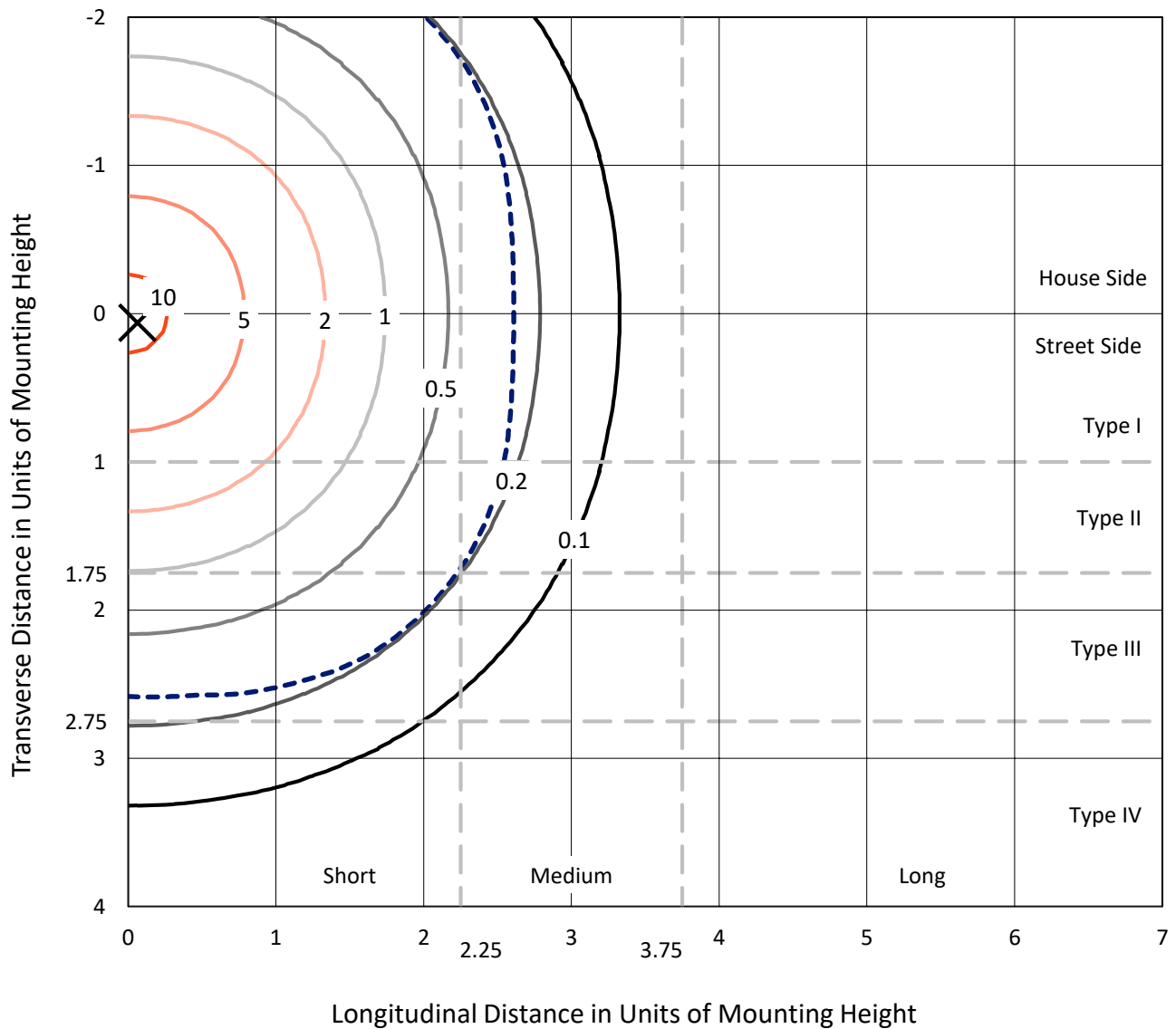
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

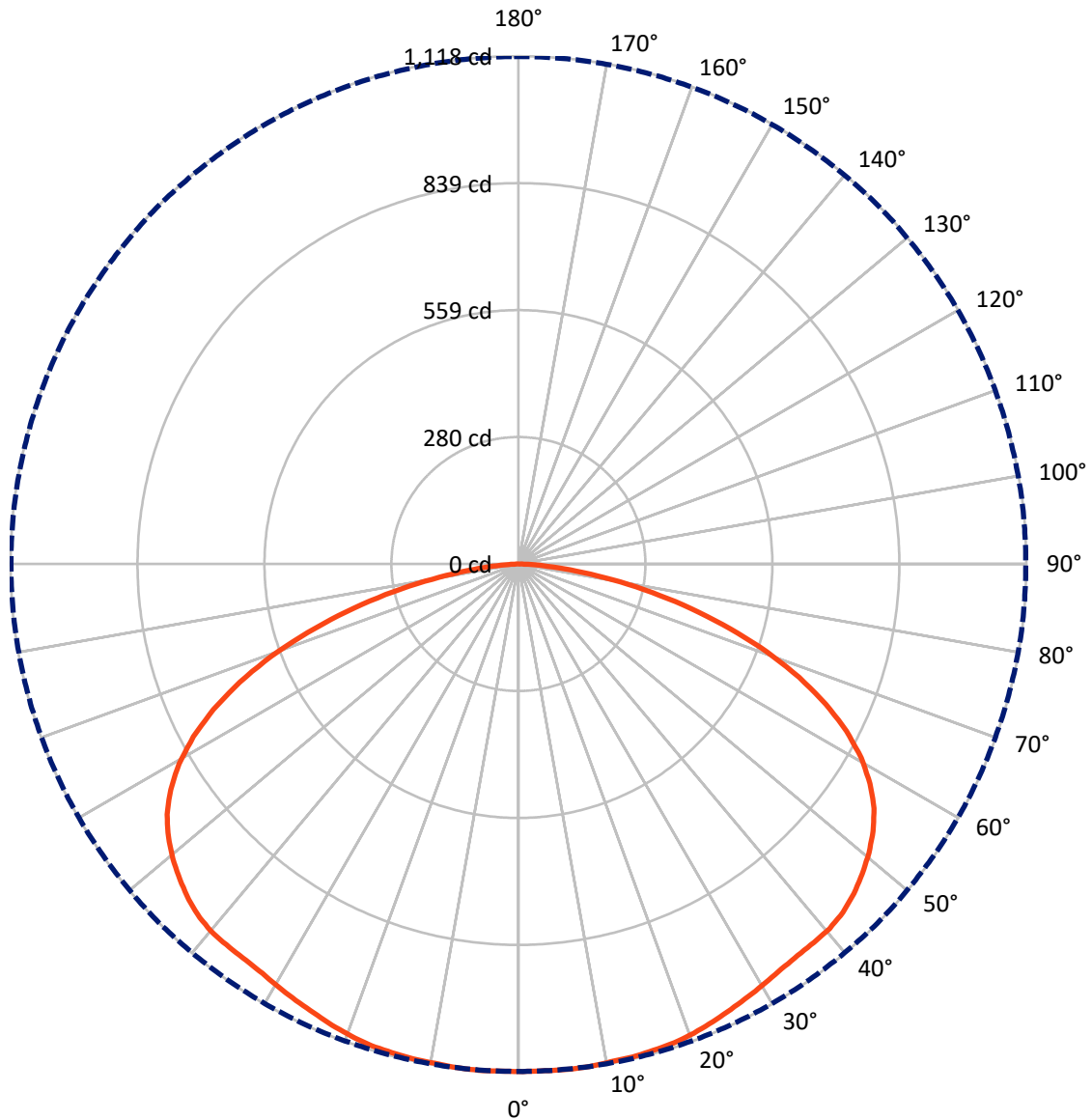
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 5-Deg Vertical

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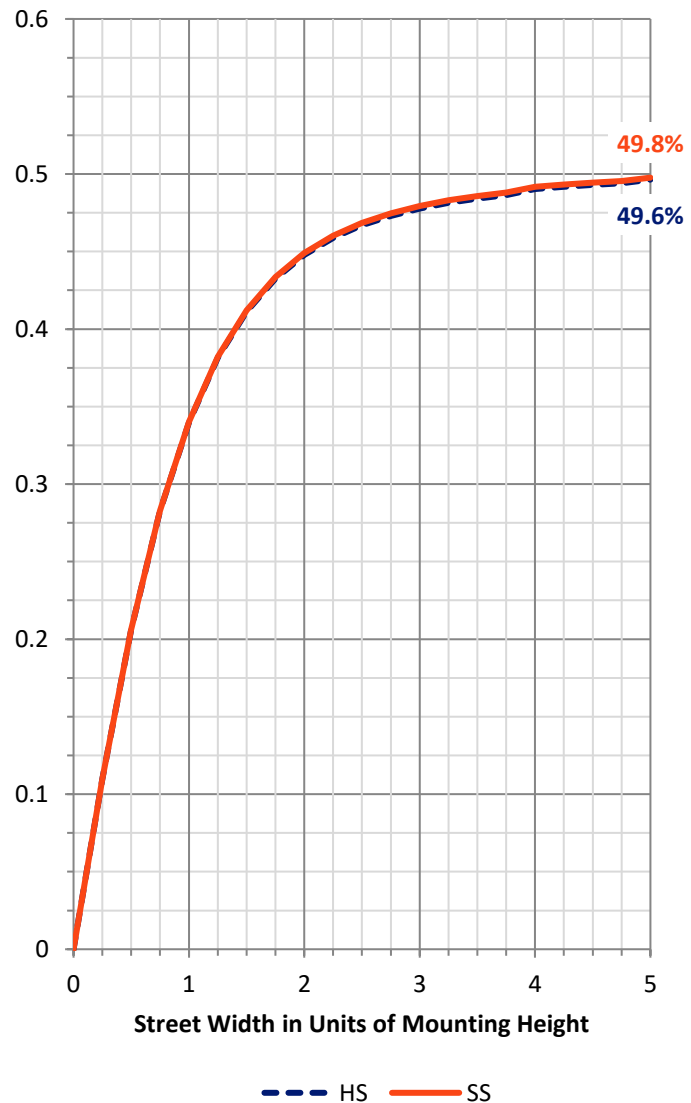
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2186.4	0.0	2186.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2186.4	0.0	2186.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4372.8	0.0	4372.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.6	2.4
10°-20°	314.3	7.2
20°-30°	501.6	11.5
30°-40°	660.6	15.1
40°-50°	785.8	18.0
50°-60°	822.4	18.8
60°-70°	699.4	16.0
70°-80°	397.5	9.1
80°-90°	84.5	1.9
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°	4372.8	100.0
0°-180°	4372.8	100.0



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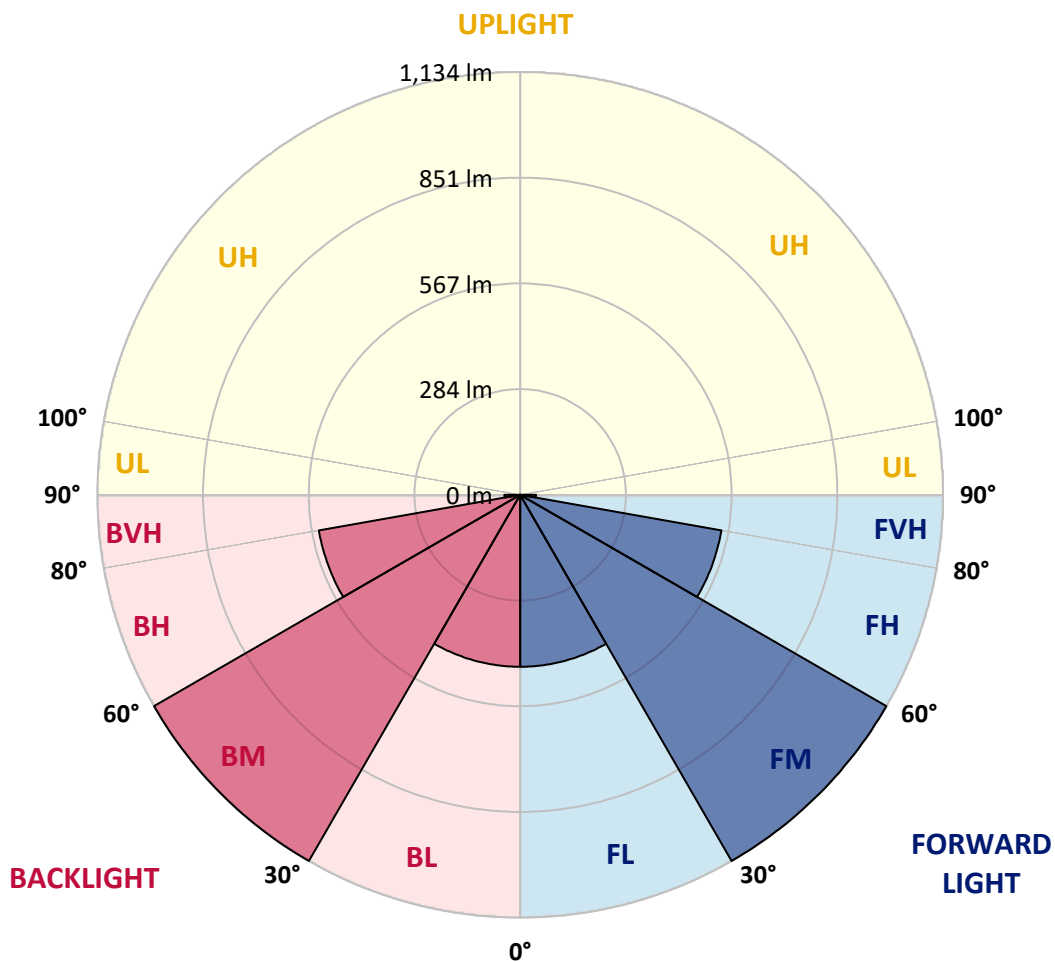
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	461.2	10.5			
FM	(30°-60°)	1134.5	25.9			
FH	(60°-80°)	548.4	12.5			G0/660
FVH	(80°-90°)	42.3	1.0			G1/100
BL	(0°-30°)	461.2	10.5	B1/500		
BM	(30°-60°)	1134.5	25.9	B2/2500		
BH	(60°-80°)	548.4	12.5	B2/1000		G0/660
BVH	(80°-90°)	42.3	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2
2.5°	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2
5°	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1118.1	1117.2
7.5°	1116.3	1116.3	1116.3	1116.3	1117.2	1116.3	1116.3	1117.2	1117.2	1117.2	1117.2
10°	1114.6	1113.8	1113.8	1114.6	1114.6	1114.6	1114.6	1114.6	1115.5	1114.6	1114.6
12.5°	1112.0	1111.2	1112.0	1112.0	1112.0	1112.9	1112.9	1112.9	1113.8	1113.8	1112.9
15°	1109.4	1109.4	1109.4	1109.4	1109.4	1110.3	1110.3	1111.2	1111.2	1111.2	1111.2
17.5°	1106.0	1106.0	1106.0	1106.9	1106.9	1107.7	1107.7	1107.7	1108.6	1108.6	1108.6
20°	1100.0	1099.1	1100.0	1100.0	1100.8	1101.7	1101.7	1102.6	1102.6	1102.6	1102.6
22.5°	1091.3	1091.3	1092.2	1092.2	1093.1	1093.9	1093.9	1094.8	1094.8	1094.8	1094.8
25°	1082.7	1083.6	1083.6	1084.4	1084.4	1085.3	1086.2	1086.2	1086.2	1086.2	1086.2
27.5°	1074.1	1075.0	1075.0	1075.0	1075.8	1076.7	1077.6	1078.4	1079.3	1078.4	1078.4
30°	1064.6	1064.6	1065.5	1066.3	1067.2	1068.1	1069.8	1070.7	1071.5	1070.7	1070.7
32.5°	1054.3	1055.1	1056.0	1056.9	1058.6	1060.3	1062.0	1062.9	1063.8	1062.9	1062.9
35°	1046.5	1046.5	1048.2	1050.0	1051.7	1054.3	1056.0	1057.7	1059.4	1058.6	1057.7
37.5°	1038.8	1038.8	1040.5	1043.1	1046.5	1050.0	1053.4	1056.0	1056.9	1056.9	1056.0
40°	1029.3	1030.1	1031.9	1036.2	1041.3	1045.7	1050.0	1053.4	1055.1	1055.1	1053.4
42.5°	1018.9	1019.8	1022.4	1026.7	1032.7	1037.9	1043.1	1045.7	1048.2	1048.2	1046.5
45°	1004.3	1005.1	1008.6	1012.9	1018.9	1024.1	1030.1	1032.7	1036.2	1035.3	1034.4
47.5°	985.3	986.2	989.6	993.9	1000.0	1006.0	1012.0	1016.3	1018.9	1018.9	1018.1
50°	962.0	962.9	966.3	970.7	978.4	985.3	991.3	995.7	1000.0	1000.0	999.1
52.5°	932.7	934.5	937.0	943.1	951.7	959.5	967.2	974.1	976.7	977.6	976.7
55°	896.5	898.2	901.7	908.6	918.1	927.6	936.2	943.9	947.4	950.0	948.2
57.5°	854.3	856.0	860.3	868.1	878.4	887.9	899.1	907.7	910.3	912.9	912.0
60°	804.3	806.9	811.2	819.8	830.1	840.5	850.8	861.2	863.8	867.2	865.5
62.5°	745.7	748.3	752.6	762.0	773.3	782.7	794.8	804.3	806.9	810.3	809.5
65°	678.4	681.0	685.3	695.7	706.0	716.4	727.6	737.9	740.5	743.9	743.1
67.5°	601.7	604.3	608.6	620.7	631.0	641.4	650.8	661.2	662.9	666.4	665.5
70°	520.7	524.1	527.6	538.8	548.3	556.9	567.2	575.8	579.3	581.0	579.3
72.5°	439.6	442.2	445.7	453.4	460.3	468.1	478.4	484.5	487.1	487.9	487.9
75°	356.0	358.6	358.6	367.2	372.4	376.7	385.3	389.6	391.4	393.1	393.1
77.5°	276.7	275.0	276.7	280.2	283.6	287.1	292.2	294.8	296.5	300.0	298.3
80°	194.0	194.8	195.7	198.3	200.0	200.9	204.3	205.2	206.0	209.5	207.8
82.5°	125.0	123.3	125.0	124.1	125.9	123.3	125.0	127.6	125.9	127.6	128.4
85°	65.5	62.9	62.9	63.8	64.7	62.9	63.8	62.9	62.9	64.7	63.8
87.5°	20.7	19.8	20.7	19.8	20.7	19.8	20.7	21.6	20.7	20.7	21.6
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2
2.5°	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2
5°	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2
7.5°	1116.3	1116.3	1116.3	1116.3	1116.3	1116.3	1115.5	1116.3
10°	1114.6	1114.6	1114.6	1114.6	1113.8	1113.8	1113.8	1113.8
12.5°	1112.9	1112.9	1112.0	1112.0	1112.0	1112.0	1111.2	1111.2
15°	1111.2	1110.3	1110.3	1109.4	1109.4	1109.4	1108.6	1109.4
17.5°	1108.6	1107.7	1107.7	1106.9	1106.9	1106.0	1106.0	1106.0
20°	1102.6	1101.7	1101.7	1100.8	1100.8	1100.0	1099.1	1099.1
22.5°	1093.9	1093.9	1093.9	1093.1	1092.2	1092.2	1091.3	1091.3
25°	1086.2	1085.3	1085.3	1084.4	1083.6	1083.6	1082.7	1082.7
27.5°	1078.4	1077.6	1076.7	1075.0	1075.0	1074.1	1073.2	1072.4
30°	1069.8	1068.1	1066.3	1065.5	1064.6	1062.9	1062.0	1061.2
32.5°	1061.2	1059.4	1057.7	1056.0	1053.4	1052.6	1050.8	1050.8
35°	1056.0	1053.4	1050.8	1047.4	1044.8	1042.2	1040.5	1039.6
37.5°	1053.4	1050.0	1045.7	1041.3	1037.0	1033.6	1031.0	1031.0
40°	1050.0	1045.7	1040.5	1034.4	1029.3	1025.0	1022.4	1021.5
42.5°	1043.1	1038.8	1031.9	1026.7	1019.8	1015.5	1012.0	1011.2
45°	1031.0	1026.7	1020.7	1013.8	1006.9	1001.7	998.2	997.4
47.5°	1015.5	1010.3	1003.4	996.5	989.6	983.6	980.1	979.3
50°	995.7	990.5	983.6	976.7	968.9	962.9	958.6	958.6
52.5°	973.2	967.2	959.5	951.7	943.1	937.0	932.7	931.9
55°	943.9	937.0	929.3	920.7	911.2	904.3	899.1	898.2
57.5°	907.7	900.0	891.4	881.9	872.4	864.6	858.6	857.7
60°	862.0	853.4	844.8	835.3	825.0	816.4	810.3	808.6
62.5°	806.0	796.5	787.0	778.4	767.2	758.6	752.6	750.8
65°	739.6	731.9	722.4	712.0	700.0	691.4	685.3	684.5
67.5°	662.0	654.3	644.8	635.3	623.3	615.5	609.5	607.7
70°	576.7	569.8	562.1	552.6	542.2	534.5	528.4	527.6
72.5°	486.2	480.2	473.3	466.4	456.0	450.0	444.8	444.0
75°	393.1	387.1	381.9	376.7	369.0	364.6	359.5	359.5
77.5°	298.3	296.5	293.1	287.1	282.7	279.3	276.7	275.0
80°	208.6	206.9	205.2	201.7	199.1	198.3	196.5	194.8
82.5°	127.6	126.7	127.6	125.9	125.0	125.0	124.1	122.4
85°	64.7	65.5	64.7	63.8	63.8	63.8	63.8	62.9
87.5°	20.7	21.6	20.7	19.8	19.8	19.8	19.8	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)