

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: P197538

Luminaire Tested: **TT-C2-LED-E1-5CQ-PM-MS/DIM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197538
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-E1-5CQ-PM-MS/DIM
Description: TOPTIER LED AREA/SITE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4565.2 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

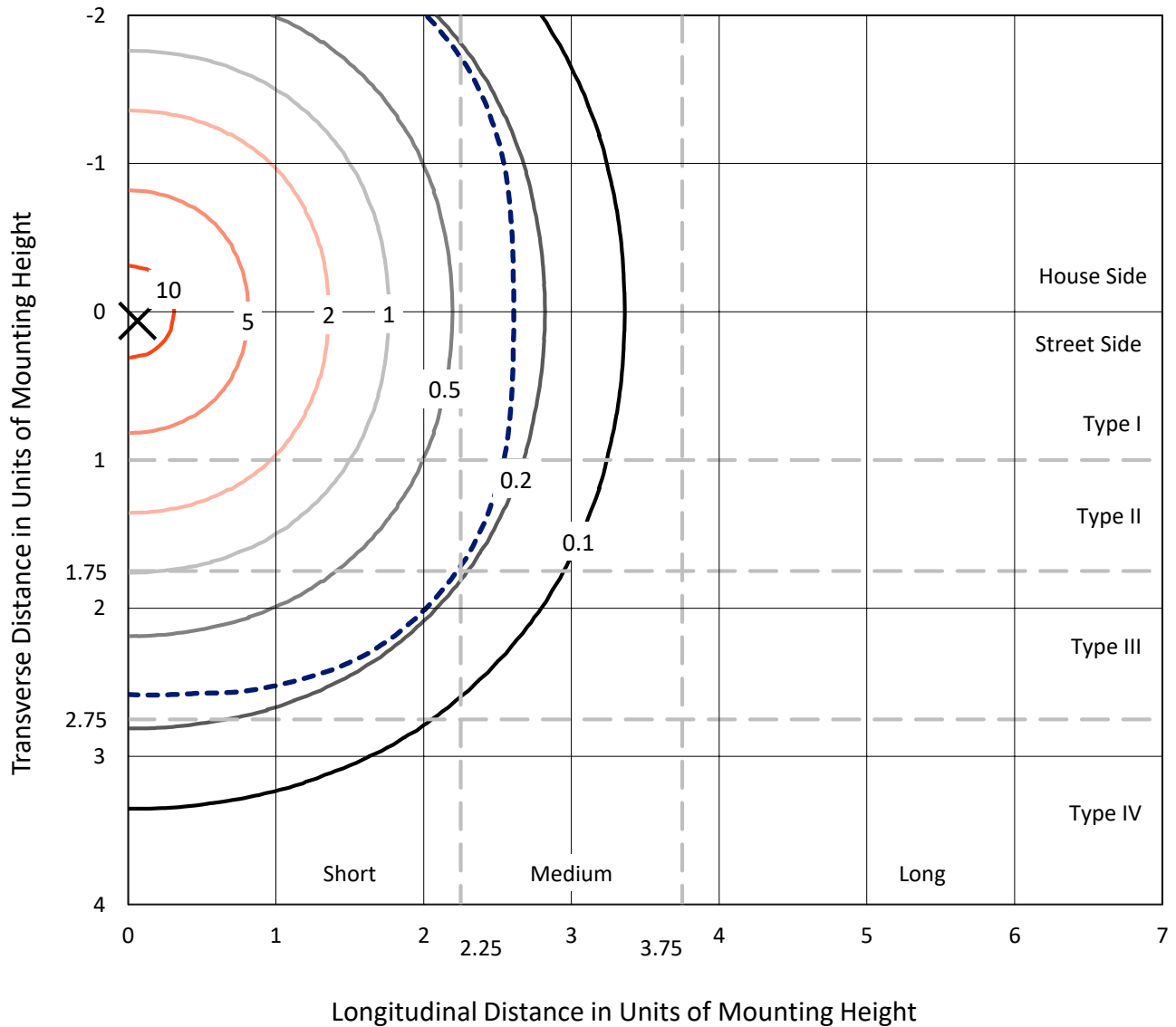
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

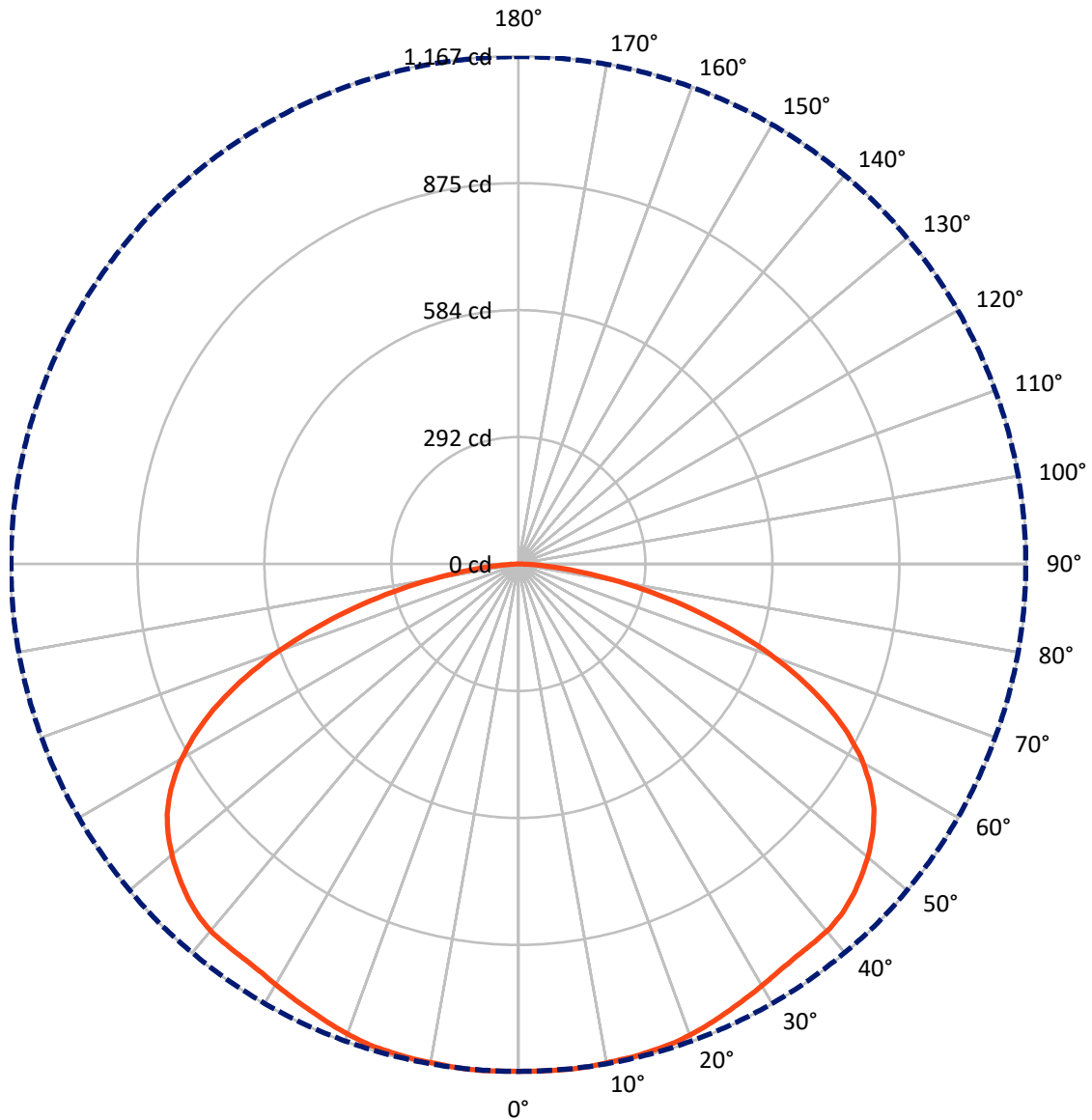
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 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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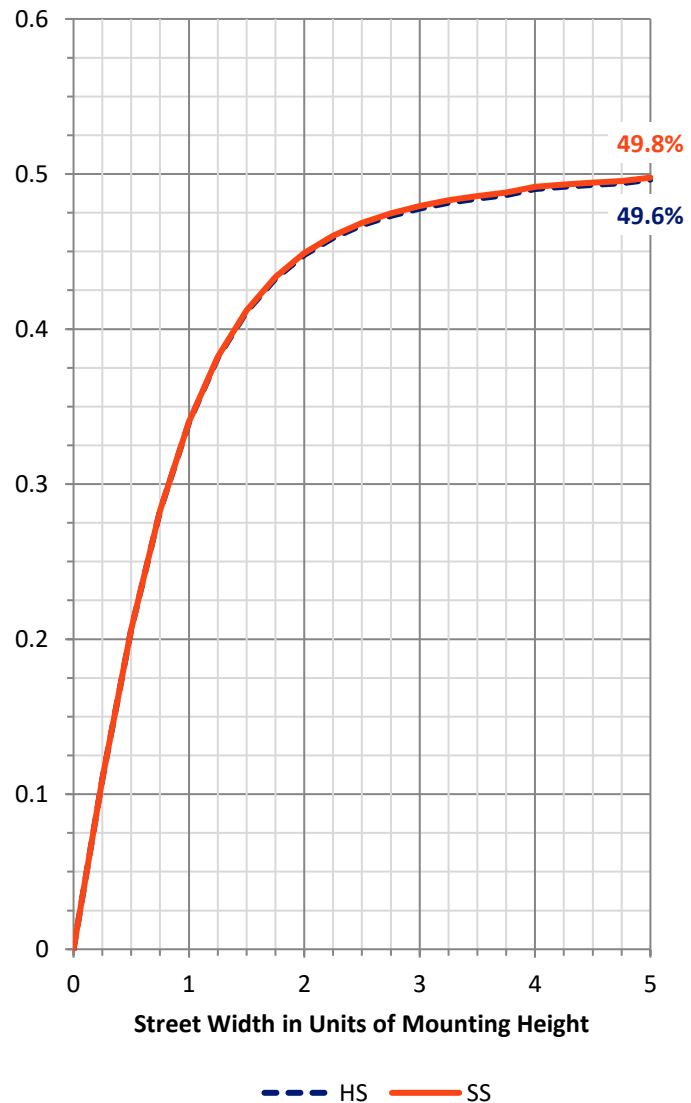
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2282.6	0.0	2282.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2282.6	0.0	2282.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	4565.2	0.0	4565.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	2.4
10°-20°	328.1	7.2
20°-30°	523.6	11.5
30°-40°	689.7	15.1
40°-50°	820.4	18.0
50°-60°	858.7	18.8
60°-70°	730.2	16.0
70°-80°	415.0	9.1
80°-90°	88.2	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°	4565.2	100.0
0°-180°	4565.2	100.0



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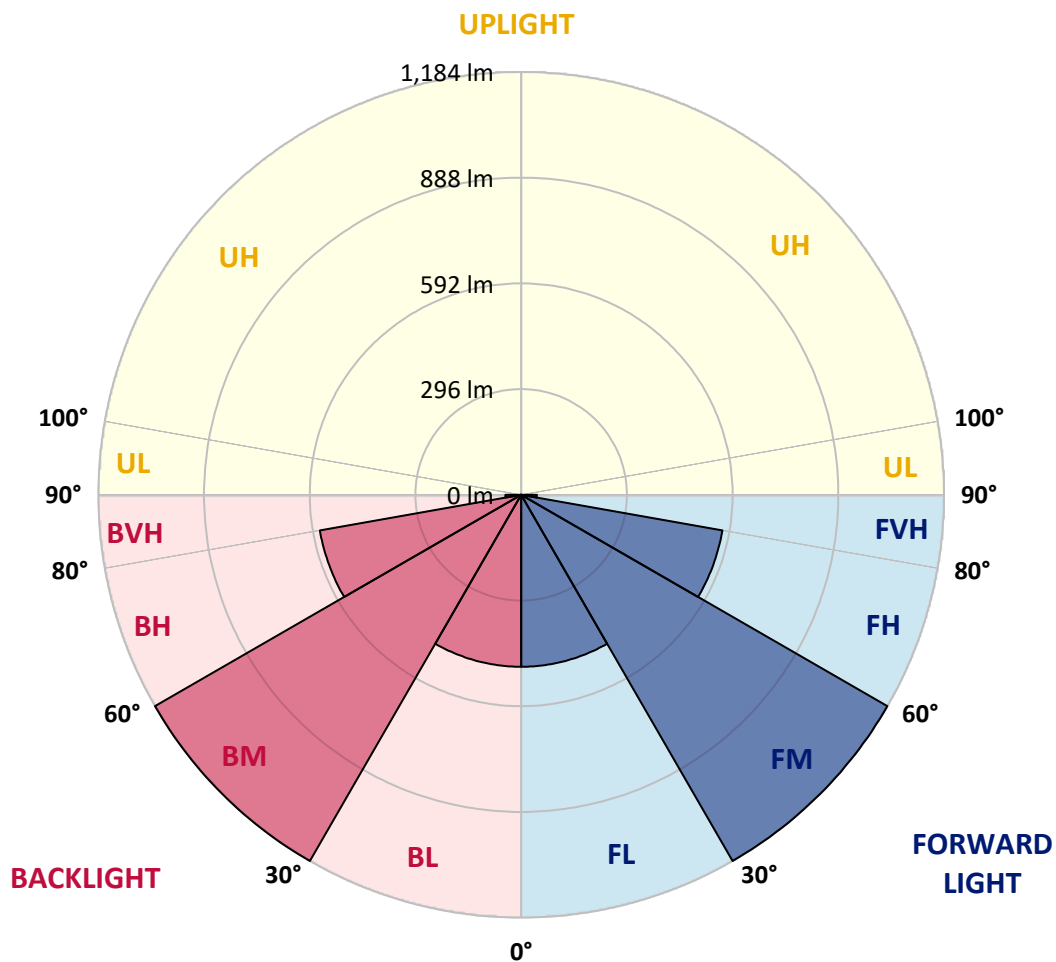
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	481.5	10.5			
FM (30°-60°)	1184.4	25.9			
FH (60°-80°)	572.6	12.5			G0/660
FVH (80°-90°)	44.1	1.0			G1/100
BL (0°-30°)	481.5	10.5	B1/500		
BM (30°-60°)	1184.4	25.9	B2/2500		
BH (60°-80°)	572.6	12.5	B2/1000		G0/660
BVH (80°-90°)	44.1	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°	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3
2.5°	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3
5°	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1167.3	1166.3
7.5°	1165.5	1165.5	1165.5	1165.5	1166.3	1165.5	1165.5	1166.3	1166.3	1166.3	1166.3
10°	1163.7	1162.8	1162.8	1163.7	1163.7	1163.7	1163.7	1163.7	1164.6	1163.7	1163.7
12.5°	1161.0	1160.1	1161.0	1161.0	1161.0	1161.9	1161.9	1161.9	1162.8	1162.8	1161.9
15°	1158.3	1158.3	1158.3	1158.3	1158.3	1159.2	1159.2	1160.1	1160.1	1160.1	1160.1
17.5°	1154.6	1154.6	1154.6	1155.6	1155.6	1156.5	1156.5	1156.5	1157.3	1157.3	1157.3
20°	1148.4	1147.5	1148.4	1148.4	1149.3	1150.2	1150.2	1151.1	1151.1	1151.1	1151.1
22.5°	1139.4	1139.4	1140.2	1140.2	1141.2	1142.1	1142.1	1142.9	1142.9	1142.9	1142.9
25°	1130.4	1131.2	1131.2	1132.2	1132.2	1133.1	1134.0	1134.0	1134.0	1134.0	1134.0
27.5°	1121.4	1122.3	1122.3	1122.3	1123.2	1124.1	1125.0	1125.8	1126.8	1125.8	1125.8
30°	1111.5	1111.5	1112.4	1113.3	1114.1	1115.1	1116.8	1117.8	1118.7	1117.8	1117.8
32.5°	1100.7	1101.6	1102.4	1103.4	1105.1	1107.0	1108.8	1109.7	1110.6	1109.7	1109.7
35°	1092.6	1092.6	1094.4	1096.2	1098.0	1100.7	1102.4	1104.3	1106.1	1105.1	1104.3
37.5°	1084.5	1084.5	1086.3	1089.0	1092.6	1096.2	1099.7	1102.4	1103.4	1103.4	1102.4
40°	1074.6	1075.5	1077.3	1081.8	1087.2	1091.7	1096.2	1099.7	1101.6	1101.6	1099.7
42.5°	1063.8	1064.6	1067.4	1071.9	1078.2	1083.6	1089.0	1091.7	1094.4	1094.4	1092.6
45°	1048.5	1049.4	1052.9	1057.5	1063.8	1069.2	1075.5	1078.2	1081.8	1080.9	1080.0
47.5°	1028.7	1029.6	1033.2	1037.7	1044.0	1050.2	1056.6	1061.1	1063.8	1063.8	1062.9
50°	1004.4	1005.3	1008.9	1013.4	1021.4	1028.7	1035.0	1039.5	1044.0	1044.0	1043.1
52.5°	973.8	975.6	978.3	984.6	993.6	1001.7	1009.7	1017.0	1019.7	1020.6	1019.7
55°	936.0	937.8	941.4	948.6	958.5	968.4	977.4	985.5	989.1	991.8	990.0
57.5°	891.9	893.6	898.2	906.3	917.0	927.0	938.7	947.7	950.4	953.1	952.2
60°	839.7	842.4	846.9	855.9	866.7	877.5	888.3	899.1	901.8	905.3	903.6
62.5°	778.5	781.2	785.7	795.6	807.3	817.2	829.8	839.7	842.4	846.0	845.1
65°	708.2	711.0	715.5	726.3	737.1	747.9	759.6	770.4	773.1	776.7	775.8
67.5°	628.2	630.9	635.4	648.0	658.8	669.6	679.4	690.3	692.1	695.7	694.8
70°	543.6	547.2	550.8	562.5	572.4	581.4	592.2	601.1	604.8	606.6	604.8
72.5°	459.0	461.7	465.3	473.4	480.6	488.7	499.5	505.8	508.4	509.4	509.4
75°	371.7	374.4	374.4	383.4	388.8	393.3	402.3	406.8	408.6	410.4	410.4
77.5°	288.9	287.1	288.9	292.5	296.1	299.7	305.1	307.8	309.6	313.2	311.4
80°	202.5	203.4	204.2	207.0	208.8	209.7	213.3	214.2	215.1	218.7	216.9
82.5°	130.5	128.7	130.5	129.6	131.4	128.7	130.5	133.2	131.4	133.2	134.1
85°	68.4	65.7	65.7	66.6	67.5	65.7	66.6	65.7	65.7	67.5	66.6
87.5°	21.6	20.7	21.6	20.7	21.6	20.7	21.6	22.5	21.6	21.6	22.5
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°	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3
2.5°	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3
5°	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3	1166.3
7.5°	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1164.6	1165.5
10°	1163.7	1163.7	1163.7	1163.7	1162.8	1162.8	1162.8	1162.8
12.5°	1161.9	1161.9	1161.0	1161.0	1161.0	1161.0	1160.1	1160.1
15°	1160.1	1159.2	1159.2	1158.3	1158.3	1158.3	1157.3	1158.3
17.5°	1157.3	1156.5	1156.5	1155.6	1155.6	1154.6	1154.6	1154.6
20°	1151.1	1150.2	1150.2	1149.3	1149.3	1148.4	1147.5	1147.5
22.5°	1142.1	1142.1	1142.1	1141.2	1140.2	1140.2	1139.4	1139.4
25°	1134.0	1133.1	1133.1	1132.2	1131.2	1131.2	1130.4	1130.4
27.5°	1125.8	1125.0	1124.1	1122.3	1122.3	1121.4	1120.5	1119.6
30°	1116.8	1115.1	1113.3	1112.4	1111.5	1109.7	1108.8	1107.9
32.5°	1107.9	1106.1	1104.3	1102.4	1099.7	1098.9	1097.1	1097.1
35°	1102.4	1099.7	1097.1	1093.5	1090.7	1088.0	1086.3	1085.4
37.5°	1099.7	1096.2	1091.7	1087.2	1082.7	1079.0	1076.3	1076.3
40°	1096.2	1091.7	1086.3	1080.0	1074.6	1070.1	1067.4	1066.5
42.5°	1089.0	1084.5	1077.3	1071.9	1064.6	1060.2	1056.6	1055.7
45°	1076.3	1071.9	1065.6	1058.4	1051.2	1045.8	1042.2	1041.3
47.5°	1060.2	1054.8	1047.5	1040.4	1033.2	1026.9	1023.3	1022.4
50°	1039.5	1034.1	1026.9	1019.7	1011.6	1005.3	1000.8	1000.8
52.5°	1016.1	1009.7	1001.7	993.6	984.6	978.3	973.8	972.9
55°	985.5	978.3	970.2	961.2	951.3	944.1	938.7	937.8
57.5°	947.7	939.6	930.6	920.7	910.8	902.6	896.4	895.5
60°	900.0	890.9	882.0	872.1	861.3	852.3	846.0	844.2
62.5°	841.5	831.6	821.7	812.6	800.9	792.0	785.7	783.8
65°	772.1	764.1	754.2	743.4	730.8	721.8	715.5	714.6
67.5°	691.2	683.1	673.2	663.3	650.7	642.6	636.3	634.5
70°	602.1	594.9	586.7	576.9	566.1	558.0	551.7	550.8
72.5°	507.6	501.3	494.0	486.9	476.1	469.8	464.4	463.5
75°	410.4	404.1	398.7	393.3	385.2	380.7	375.2	375.2
77.5°	311.4	309.6	306.0	299.7	295.2	291.6	288.9	287.1
80°	217.8	216.0	214.2	210.6	207.9	207.0	205.2	203.4
82.5°	133.2	132.3	133.2	131.4	130.5	130.5	129.6	127.8
85°	67.5	68.4	67.5	66.6	66.6	66.6	66.6	65.7
87.5°	21.6	22.5	21.6	20.7	20.7	20.7	20.7	19.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)