

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: P197686

Luminaire Tested: **TT-C3-LED-E1-MQ-CG-MS/DIM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115363)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C3-LED-E1-MQ-CG-MS/DIM
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5431.2 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 45
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



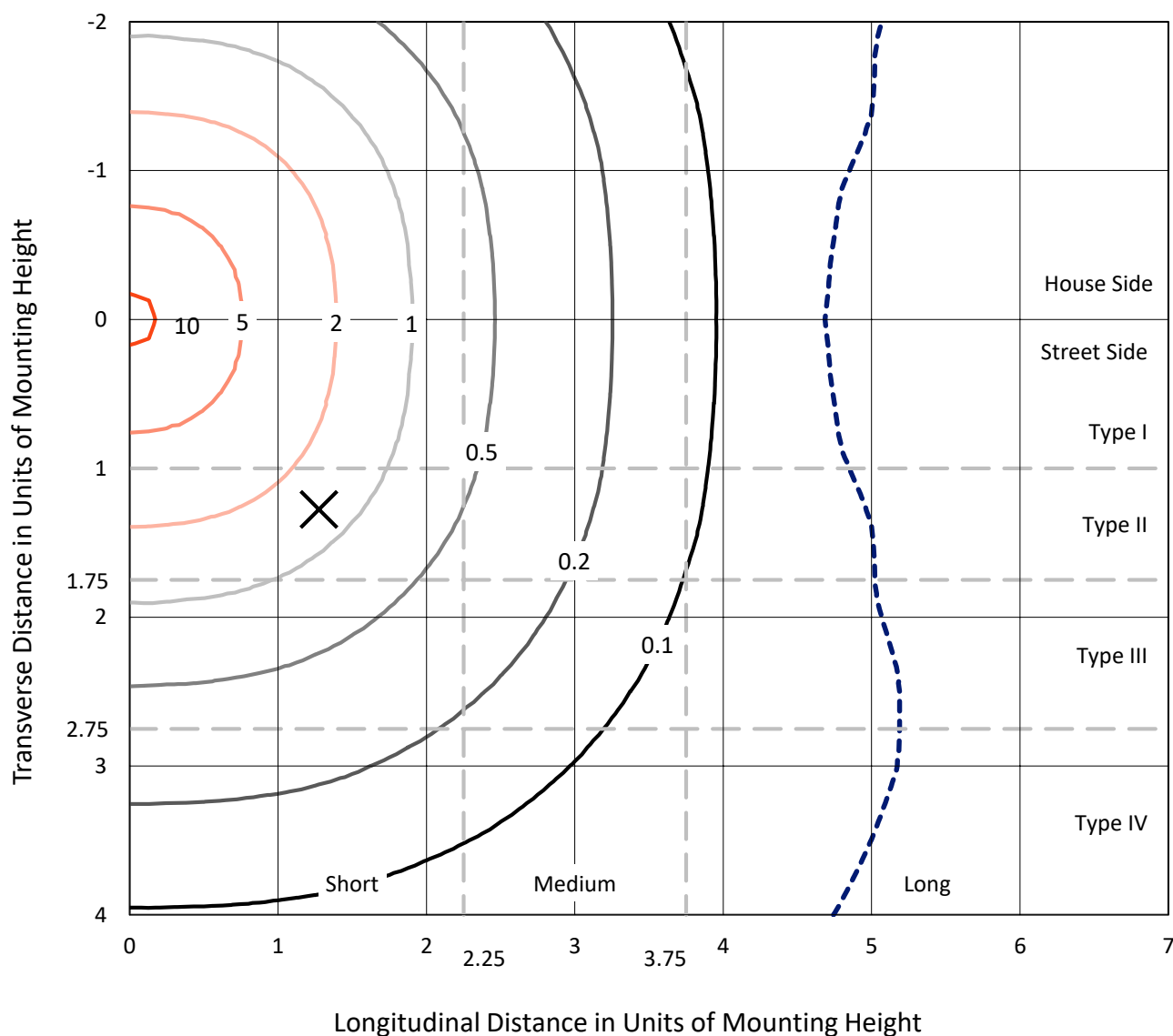
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

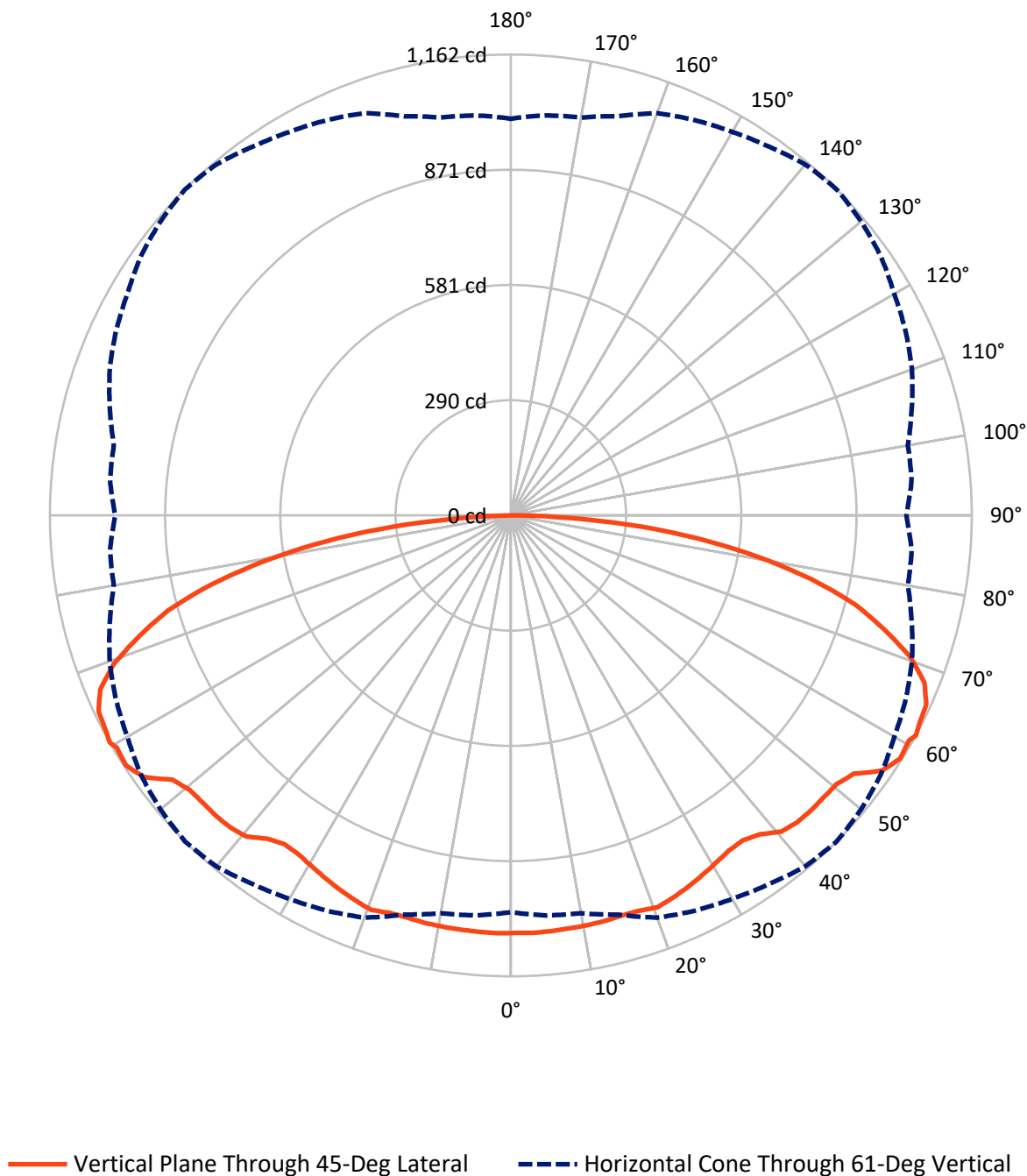


Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2715.6	0.0	2715.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2715.6	0.0	2715.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	5431.2	0.0	5431.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	1.8
10°-20°	296.8	5.5
20°-30°	477.5	8.8
30°-40°	632.6	11.6
40°-50°	798.9	14.7
50°-60°	957.2	17.6
60°-70°	1046.6	19.3
70°-80°	837.8	15.4
80°-90°	283.5	5.2
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°	5431.2	100.0
0°-180°	5431.2	100.0

Coefficient of Utilization



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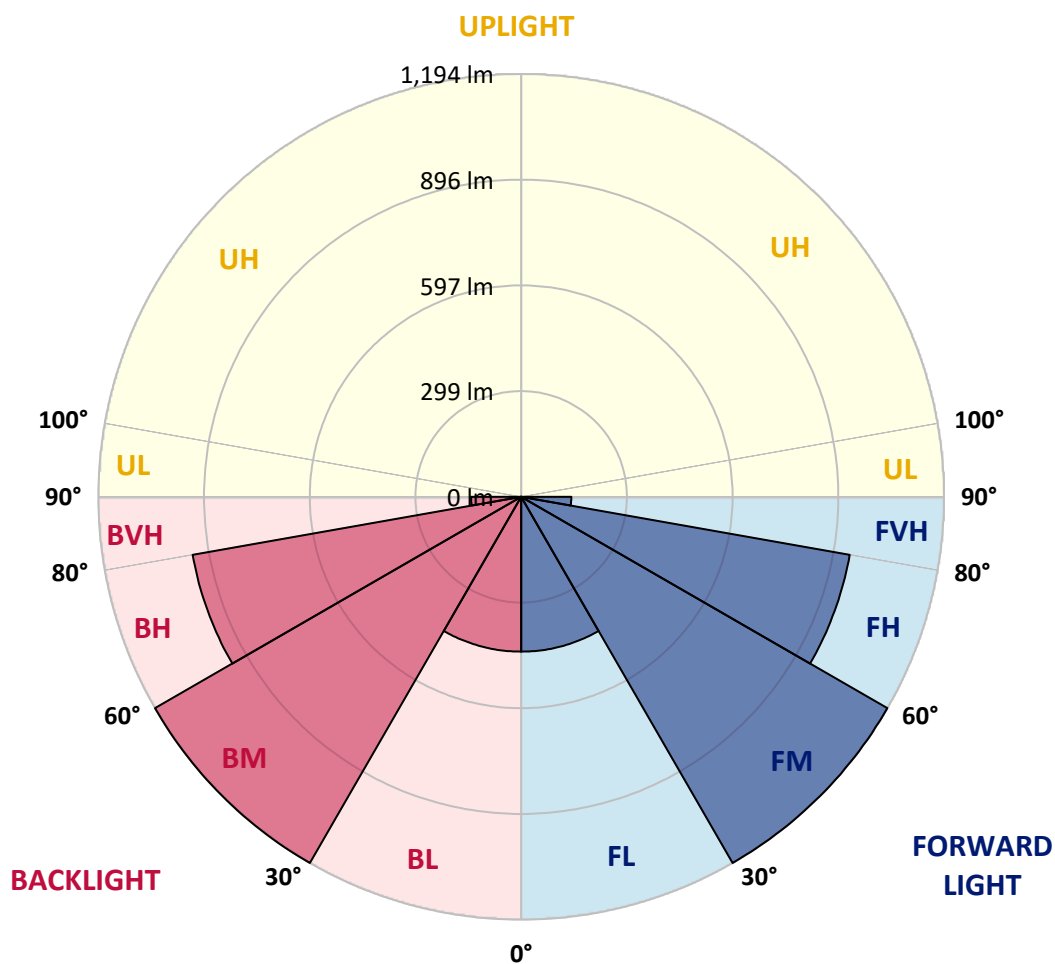
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	437.3	8.1			
FM	(30°-60°)	1194.3	22.0			
FH	(60°-80°)	942.2	17.3			G1/1800
FVH	(80°-90°)	141.7	2.6			G2/225
BL	(0°-30°)	437.3	8.1	B1/500		
BM	(30°-60°)	1194.3	22.0	B2/2500		
BH	(60°-80°)	942.2	17.3	B2/1000		G1/1800
BVH	(80°-90°)	141.7	2.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1053.3	1052.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3
5°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
7.5°	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1052.3	1051.2	1052.3
10°	1049.2	1049.2	1049.2	1049.2	1050.3	1050.3	1050.3	1050.3	1050.3	1050.3	1050.3
12.5°	1047.2	1047.2	1047.2	1047.2	1048.2	1048.2	1048.2	1048.2	1049.2	1049.2	1048.2
15°	1045.1	1044.2	1044.2	1045.1	1045.1	1046.2	1046.2	1046.2	1047.2	1046.2	1046.2
17.5°	1043.2	1042.1	1043.2	1044.2	1044.2	1045.1	1046.2	1046.2	1047.2	1047.2	1047.2
20°	1046.2	1045.1	1046.2	1047.2	1048.2	1050.3	1051.2	1052.3	1053.3	1054.4	1054.4
22.5°	1040.1	1039.1	1040.1	1040.1	1041.2	1042.1	1044.2	1045.1	1046.2	1046.2	1046.2
25°	1031.0	1031.0	1032.1	1032.1	1033.0	1034.1	1035.1	1036.1	1036.1	1037.1	1036.1
27.5°	1020.9	1020.9	1021.9	1021.9	1023.9	1023.9	1025.0	1026.0	1027.0	1027.0	1027.0
30°	1008.8	1008.8	1009.8	1010.8	1012.8	1013.8	1014.8	1015.9	1016.8	1016.8	1016.8
32.5°	997.7	996.6	997.7	999.7	1002.7	1004.7	1006.8	1007.7	1007.7	1007.7	1008.8
35°	988.5	989.5	991.5	993.6	997.7	999.7	1001.7	1004.7	1005.7	1005.7	1005.7
37.5°	990.6	991.5	994.7	998.6	1003.8	1009.8	1013.8	1017.9	1020.9	1019.8	1018.9
40°	1003.8	1005.7	1010.8	1016.8	1025.0	1033.0	1039.1	1044.2	1047.2	1048.2	1047.2
42.5°	1005.7	1007.7	1011.8	1020.9	1030.0	1039.1	1047.2	1052.3	1056.3	1057.4	1056.3
45°	1004.7	1004.7	1010.8	1020.9	1030.0	1039.1	1049.2	1056.3	1060.4	1060.4	1060.4
47.5°	997.7	1000.7	1004.7	1014.8	1027.0	1036.1	1046.2	1053.3	1058.3	1061.4	1058.3
50°	997.7	997.7	1004.7	1011.8	1022.9	1039.1	1053.3	1060.4	1065.4	1064.4	1065.4
52.5°	995.6	1001.7	1005.7	1015.9	1036.1	1052.3	1063.5	1073.5	1080.6	1081.6	1079.5
55°	1013.8	1014.8	1023.9	1043.2	1062.4	1080.6	1100.9	1116.0	1128.2	1135.3	1125.1
57.5°	1028.0	1022.9	1041.2	1057.4	1079.5	1106.9	1137.3	1149.4	1158.5	1156.5	1159.5
60°	1008.8	1015.9	1029.1	1046.2	1081.6	1108.9	1125.1	1138.3	1149.4	1152.4	1148.4
61°	999.7	1011.8	1017.9	1041.2	1078.6	1098.8	1116.0	1134.2	1154.5	1161.5	1152.4
62.5°	984.5	1003.8	1001.7	1039.1	1062.4	1085.7	1118.0	1139.2	1153.5	1155.4	1153.5
65°	985.4	982.4	1005.7	1033.0	1056.3	1097.8	1125.1	1138.3	1146.3	1150.4	1148.4
67.5°	953.2	943.0	971.3	990.6	1030.0	1062.4	1088.8	1107.9	1120.1	1124.1	1119.1
70°	878.3	885.3	905.6	935.0	967.3	1006.8	1031.0	1056.3	1066.5	1067.4	1067.4
72.5°	806.4	810.4	830.7	858.0	895.4	929.8	954.1	974.4	983.5	984.5	986.5
75°	711.3	715.3	738.6	763.9	801.3	830.7	847.9	872.1	885.3	896.5	887.4
77.5°	601.0	608.0	626.3	653.6	688.0	704.2	734.5	762.9	772.0	775.0	772.0
80°	476.5	485.6	501.8	538.3	553.5	579.8	609.1	621.2	629.4	631.4	632.4
82.5°	343.0	350.1	367.3	392.6	409.8	431.0	451.2	466.5	475.6	473.5	472.6
85°	202.4	204.4	222.6	239.8	253.0	266.1	282.3	293.5	295.4	299.5	298.5
87.5°	60.7	61.7	69.8	78.9	85.0	91.1	101.2	114.4	117.4	109.2	110.3
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°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1053.3	1053.3	1053.3	1053.3	1053.3	1053.3	1052.3	1053.3
5°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
7.5°	1052.3	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2
10°	1050.3	1050.3	1050.3	1050.3	1049.2	1049.2	1049.2	1049.2
12.5°	1048.2	1048.2	1048.2	1048.2	1047.2	1047.2	1047.2	1047.2
15°	1046.2	1046.2	1046.2	1046.2	1045.1	1045.1	1045.1	1045.1
17.5°	1047.2	1046.2	1045.1	1045.1	1044.2	1043.2	1043.2	1043.2
20°	1053.3	1052.3	1050.3	1048.2	1047.2	1046.2	1046.2	1046.2
22.5°	1045.1	1044.2	1042.1	1041.2	1041.2	1040.1	1039.1	1039.1
25°	1036.1	1034.1	1034.1	1033.0	1033.0	1031.0	1031.0	1030.0
27.5°	1026.0	1025.0	1023.9	1022.9	1022.9	1021.9	1020.9	1019.8
30°	1016.8	1014.8	1012.8	1011.8	1010.8	1009.8	1009.8	1009.8
32.5°	1007.7	1005.7	1004.7	1001.7	999.7	998.6	997.7	997.7
35°	1004.7	1001.7	999.7	996.6	993.6	991.5	990.6	988.5
37.5°	1016.8	1012.8	1009.8	1004.7	997.7	994.7	991.5	990.6
40°	1043.2	1039.1	1033.0	1025.0	1016.8	1010.8	1005.7	1003.8
42.5°	1052.3	1047.2	1039.1	1031.0	1020.9	1011.8	1007.7	1005.7
45°	1055.3	1050.3	1039.1	1029.1	1019.8	1011.8	1005.7	1003.8
47.5°	1052.3	1045.1	1035.1	1027.0	1013.8	1003.8	999.7	996.6
50°	1059.4	1053.3	1040.1	1021.9	1010.8	1004.7	997.7	996.6
52.5°	1073.5	1062.4	1050.3	1037.1	1015.9	1003.8	999.7	994.7
55°	1116.0	1100.9	1079.5	1058.3	1045.1	1026.0	1013.8	1013.8
57.5°	1148.4	1136.2	1108.9	1080.6	1056.3	1042.1	1023.9	1025.0
60°	1139.2	1123.1	1110.0	1081.6	1047.2	1028.0	1020.9	1007.7
61°	1138.3	1116.0	1097.8	1075.6	1046.2	1015.9	1013.8	996.6
62.5°	1140.3	1120.1	1085.7	1062.4	1040.1	1000.7	999.7	983.5
65°	1138.3	1119.1	1101.8	1058.3	1028.0	1011.8	977.4	990.6
67.5°	1106.9	1089.7	1058.3	1034.1	987.5	967.3	948.0	948.0
70°	1057.4	1032.1	1001.7	971.3	940.0	905.6	888.3	878.3
72.5°	974.4	953.2	928.8	896.5	858.0	826.6	810.4	803.3
75°	870.1	846.9	825.6	801.3	760.9	734.5	717.4	712.3
77.5°	760.9	740.6	703.2	680.0	652.6	622.3	607.1	601.0
80°	621.2	610.1	583.8	546.4	533.2	495.8	485.6	476.5
82.5°	466.5	454.2	430.0	403.8	387.6	366.2	348.0	346.0
85°	293.5	285.3	270.1	250.9	230.7	218.5	202.4	206.4
87.5°	109.2	104.2	95.1	83.0	73.8	65.8	57.7	60.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)