

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: P197617

Luminaire Tested: **TT-C4-LED-E1-MQ-MS/DIM-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115333)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-MQ-MS/DIM-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5465.8 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

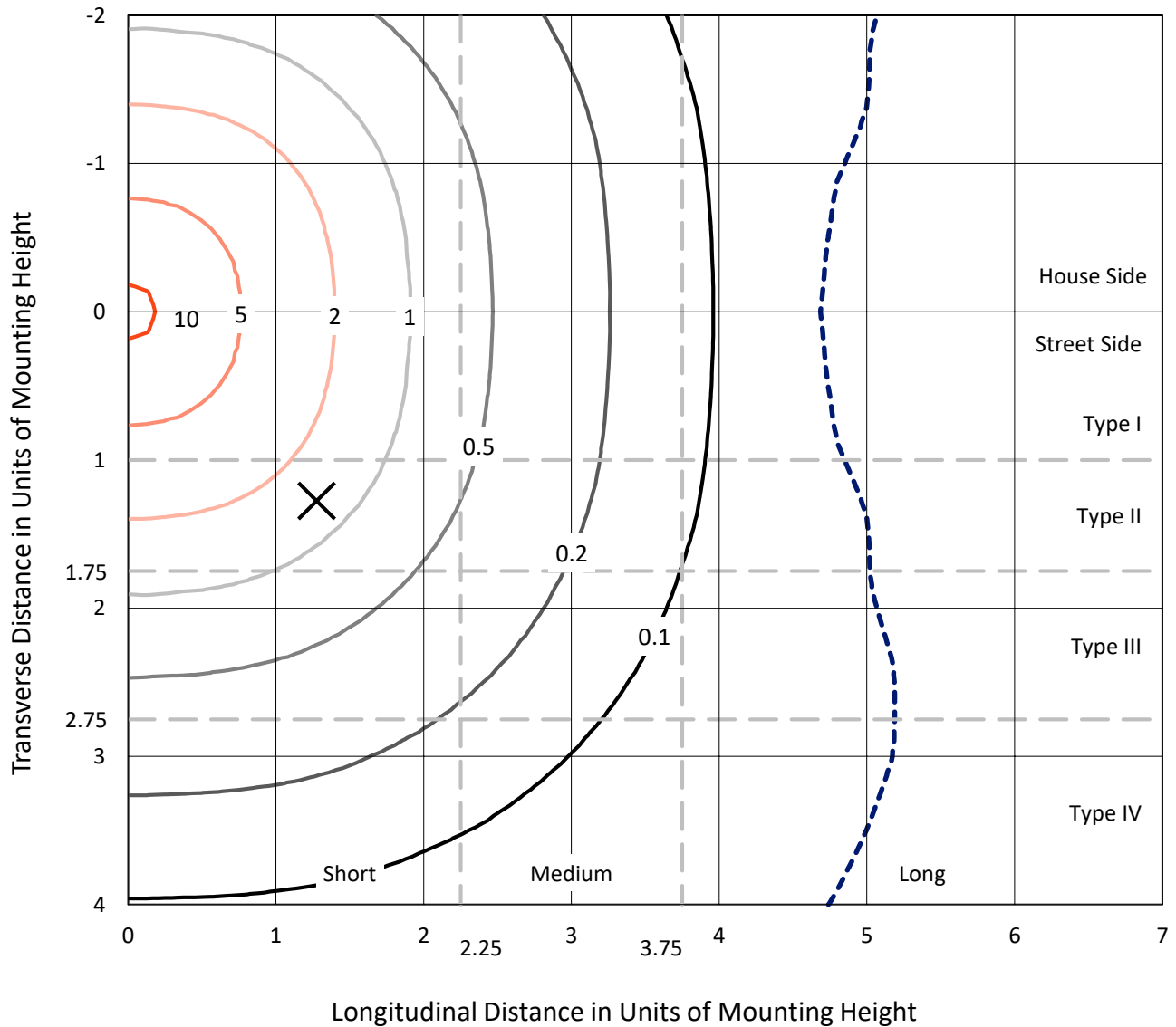
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P197617
 CATALOG NUMBER: TT-C4-LED-E1-MQ-MS/DIM-8030

Iso-Footcandle Lines of Horizontal Illumination

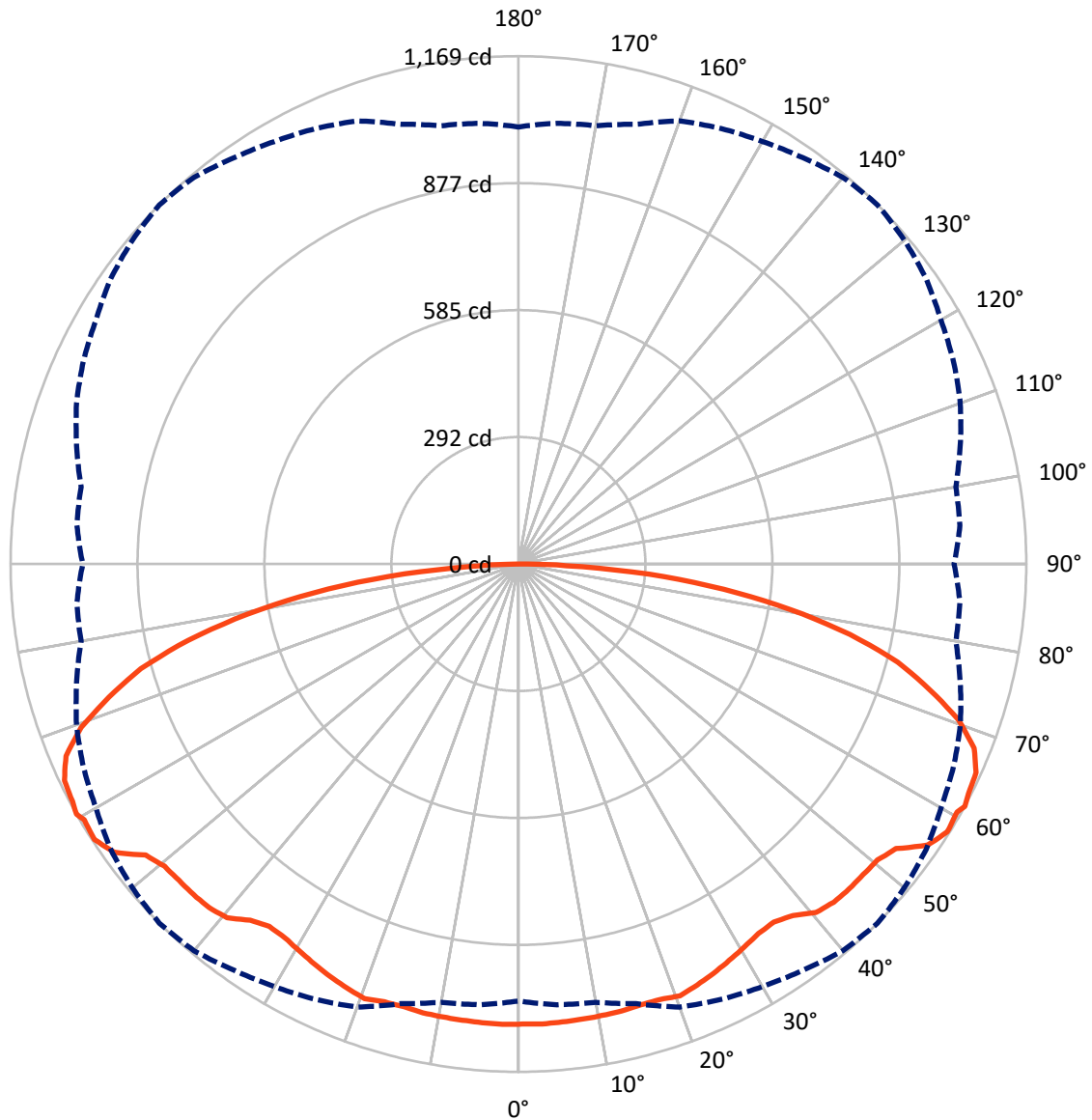
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197617
CATALOG NUMBER: TT-C4-LED-E1-MQ-MS/DIM-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 61-Deg Vertical

REPORT NUMBER: P197617

CATALOG NUMBER: TT-C4-LED-E1-MQ-MS/DIM-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2732.9	0.0	2732.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2732.9	0.0	2732.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	5465.8	0.0	5465.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	1.8
10°-20°	298.7	5.5
20°-30°	480.6	8.8
30°-40°	636.6	11.6
40°-50°	803.9	14.7
50°-60°	963.3	17.6
60°-70°	1053.3	19.3
70°-80°	843.2	15.4
80°-90°	285.3	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°	5465.8	100.0
0°-180°	5465.8	100.0



REPORT NUMBER: P197617

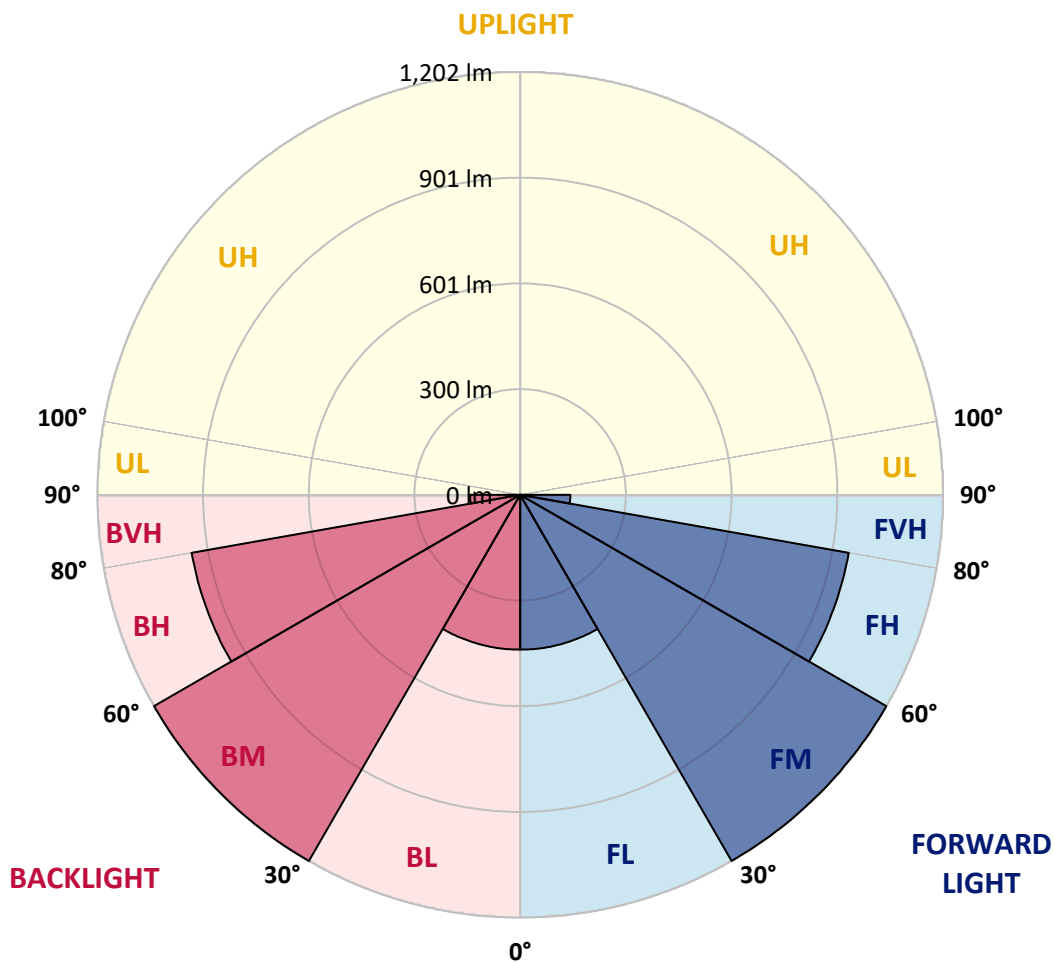
CATALOG NUMBER: TT-C4-LED-E1-MQ-MS/DIM-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	440.1	8.1			
FM	(30°-60°)	1201.9	22.0			
FH	(60°-80°)	948.2	17.3			G1/1800
FVH	(80°-90°)	142.6	2.6			G2/225
BL	(0°-30°)	440.1	8.1	B1/500		
BM	(30°-60°)	1201.9	22.0	B2/2500		
BH	(60°-80°)	948.2	17.3	B2/1000		G1/1800
BVH	(80°-90°)	142.6	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





REPORT NUMBER: P197617

CATALOG NUMBER: TT-C4-LED-E1-MQ-MS/DIM-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1060.0	1059.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0
5°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
7.5°	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9	1059.0	1057.9	1059.0
10°	1056.0	1056.0	1056.0	1056.0	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9
12.5°	1053.9	1053.9	1053.9	1053.9	1054.9	1054.9	1054.9	1054.9	1056.0	1056.0	1054.9
15°	1051.8	1050.9	1050.9	1051.8	1051.8	1052.8	1052.8	1052.8	1053.9	1052.8	1052.8
17.5°	1049.8	1048.8	1049.8	1050.9	1050.9	1051.8	1052.8	1052.8	1053.9	1053.9	1053.9
20°	1052.8	1051.8	1052.8	1053.9	1054.9	1056.9	1057.9	1059.0	1060.0	1061.0	1061.0
22.5°	1046.8	1045.7	1046.8	1046.8	1047.7	1048.8	1050.9	1051.8	1052.8	1052.8	1052.8
25°	1037.6	1037.6	1038.6	1038.6	1039.6	1040.6	1041.7	1042.6	1042.6	1043.7	1042.6
27.5°	1027.4	1027.4	1028.5	1028.5	1030.4	1030.4	1031.5	1032.5	1033.5	1033.5	1033.5
30°	1015.1	1015.1	1016.2	1017.2	1019.3	1020.2	1021.3	1022.3	1023.4	1023.4	1023.4
32.5°	1004.0	1002.9	1004.0	1006.0	1009.1	1011.1	1013.1	1014.2	1014.2	1014.2	1015.1
35°	994.8	995.9	997.8	999.9	1004.0	1006.0	1008.0	1011.1	1012.1	1012.1	1012.1
37.5°	996.8	997.8	1001.0	1005.0	1010.1	1016.2	1020.2	1024.3	1027.4	1026.4	1025.3
40°	1010.1	1012.1	1017.2	1023.4	1031.5	1039.6	1045.7	1050.9	1053.9	1054.9	1053.9
42.5°	1012.1	1014.2	1018.3	1027.4	1036.6	1045.7	1053.9	1059.0	1063.0	1064.1	1063.0
45°	1011.1	1011.1	1017.2	1027.4	1036.6	1045.7	1056.0	1063.0	1067.1	1067.1	1067.1
47.5°	1004.0	1007.0	1011.1	1021.3	1033.5	1042.6	1052.8	1060.0	1065.0	1068.1	1065.0
50°	1004.0	1004.0	1011.1	1018.3	1029.4	1045.7	1060.0	1067.1	1072.2	1071.2	1072.2
52.5°	1001.9	1008.0	1012.1	1022.3	1042.6	1059.0	1070.1	1080.3	1087.5	1088.4	1086.5
55°	1020.2	1021.3	1030.4	1049.8	1069.2	1087.5	1107.8	1123.1	1135.3	1142.5	1132.3
57.5°	1034.5	1029.4	1047.7	1064.1	1086.5	1114.0	1144.5	1156.7	1165.8	1163.9	1166.9
60°	1015.1	1022.3	1035.5	1052.8	1088.4	1115.9	1132.3	1145.5	1156.7	1159.8	1155.7
61°	1006.0	1018.3	1024.3	1047.7	1085.4	1105.8	1123.1	1141.5	1161.8	1169.0	1159.8
62.5°	990.8	1010.1	1008.0	1045.7	1069.2	1092.5	1125.1	1146.6	1160.8	1162.8	1160.8
65°	991.8	988.7	1012.1	1039.6	1063.0	1104.8	1132.3	1145.5	1153.6	1157.7	1155.7
67.5°	959.2	949.0	977.5	996.8	1036.6	1069.2	1095.6	1115.0	1127.2	1131.3	1126.1
70°	883.8	891.0	911.3	940.9	973.5	1013.1	1037.6	1063.0	1073.2	1074.2	1074.2
72.5°	811.5	815.6	836.0	863.5	901.1	935.8	960.1	980.6	989.7	990.8	992.7
75°	715.8	719.9	743.3	768.7	806.4	836.0	853.3	877.8	891.0	902.1	893.0
77.5°	604.8	612.0	630.3	657.8	692.4	708.7	739.2	767.8	776.9	780.0	776.9
80°	479.6	488.8	505.0	541.7	557.0	583.4	613.0	625.2	633.3	635.4	636.3
82.5°	345.1	352.3	369.6	395.0	412.4	433.8	454.1	469.4	478.6	476.6	475.5
85°	203.6	205.7	224.0	241.3	254.5	267.8	284.1	295.3	297.3	301.4	300.4
87.5°	61.1	62.1	70.3	79.5	85.5	91.6	101.9	115.1	118.1	110.0	111.0
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: P197617
 CATALOG NUMBER: TT-C4-LED-E1-MQ-MS/DIM-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1059.0	1060.0
5°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
7.5°	1059.0	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9
10°	1056.9	1056.9	1056.9	1056.9	1056.0	1056.0	1056.0	1056.0
12.5°	1054.9	1054.9	1054.9	1054.9	1053.9	1053.9	1053.9	1053.9
15°	1052.8	1052.8	1052.8	1052.8	1051.8	1051.8	1051.8	1051.8
17.5°	1053.9	1052.8	1051.8	1051.8	1050.9	1049.8	1049.8	1049.8
20°	1060.0	1059.0	1056.9	1054.9	1053.9	1052.8	1052.8	1052.8
22.5°	1051.8	1050.9	1048.8	1047.7	1047.7	1046.8	1045.7	1045.7
25°	1042.6	1040.6	1040.6	1039.6	1039.6	1037.6	1037.6	1036.6
27.5°	1032.5	1031.5	1030.4	1029.4	1029.4	1028.5	1027.4	1026.4
30°	1023.4	1021.3	1019.3	1018.3	1017.2	1016.2	1016.2	1016.2
32.5°	1014.2	1012.1	1011.1	1008.0	1006.0	1005.0	1004.0	1004.0
35°	1011.1	1008.0	1006.0	1002.9	999.9	997.8	996.8	994.8
37.5°	1023.4	1019.3	1016.2	1011.1	1004.0	1001.0	997.8	996.8
40°	1049.8	1045.7	1039.6	1031.5	1023.4	1017.2	1012.1	1010.1
42.5°	1059.0	1053.9	1045.7	1037.6	1027.4	1018.3	1014.2	1012.1
45°	1062.0	1056.9	1045.7	1035.5	1026.4	1018.3	1012.1	1010.1
47.5°	1059.0	1051.8	1041.7	1033.5	1020.2	1010.1	1006.0	1002.9
50°	1066.1	1060.0	1046.8	1028.5	1017.2	1011.1	1004.0	1002.9
52.5°	1080.3	1069.2	1056.9	1043.7	1022.3	1010.1	1006.0	1001.0
55°	1123.1	1107.8	1086.5	1065.0	1051.8	1032.5	1020.2	1020.2
57.5°	1155.7	1143.4	1115.9	1087.5	1063.0	1048.8	1030.4	1031.5
60°	1146.6	1130.2	1117.0	1088.4	1053.9	1034.5	1027.4	1014.2
61°	1145.5	1123.1	1104.8	1082.4	1052.8	1022.3	1020.2	1002.9
62.5°	1147.5	1127.2	1092.5	1069.2	1046.8	1007.0	1006.0	989.7
65°	1145.5	1126.1	1108.9	1065.0	1034.5	1018.3	983.6	996.8
67.5°	1114.0	1096.7	1065.0	1040.6	993.8	973.5	954.1	954.1
70°	1064.1	1038.6	1008.0	977.5	946.0	911.3	894.0	883.8
72.5°	980.6	959.2	934.7	902.1	863.5	831.9	815.6	808.5
75°	875.7	852.2	830.9	806.4	765.7	739.2	722.0	716.8
77.5°	765.7	745.4	707.7	684.3	656.8	626.2	610.9	604.8
80°	625.2	614.0	587.5	549.8	536.6	499.0	488.8	479.6
82.5°	469.4	457.2	432.7	406.3	390.0	368.6	350.2	348.3
85°	295.3	287.1	271.8	252.6	232.1	220.0	203.6	207.7
87.5°	110.0	104.9	95.7	83.5	74.4	66.1	58.0	61.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)