

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: P197924

Luminaire Tested: **TT-C2-LED-E1-WQ-SG-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115543)
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-WQ-SG-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3850 lumens
Efficiency: N/A
Efficacy: 113.2 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

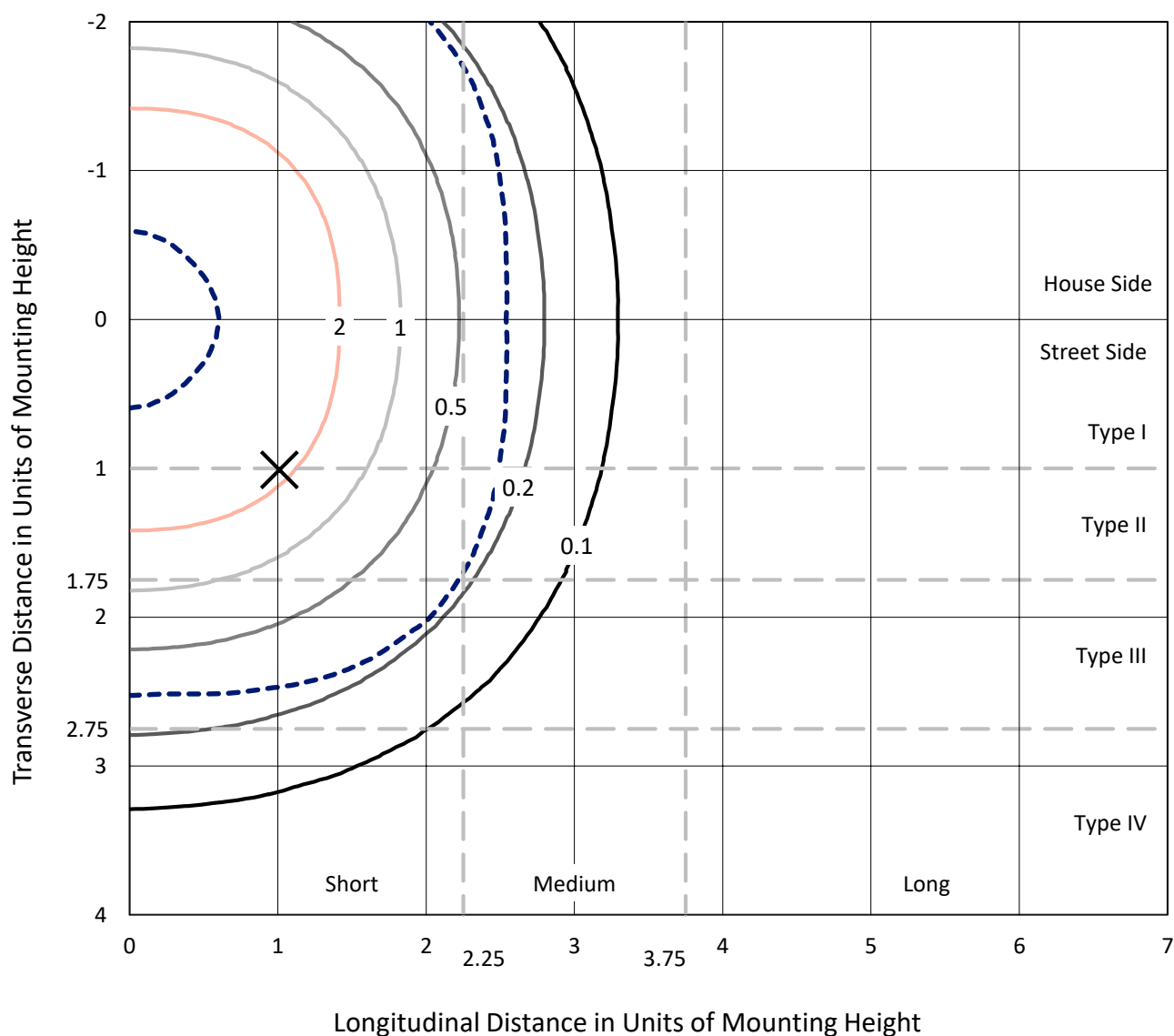


REPORT NUMBER: P197924

CATALOG NUMBER: TT-C2-LED-E1-WQ-SG-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

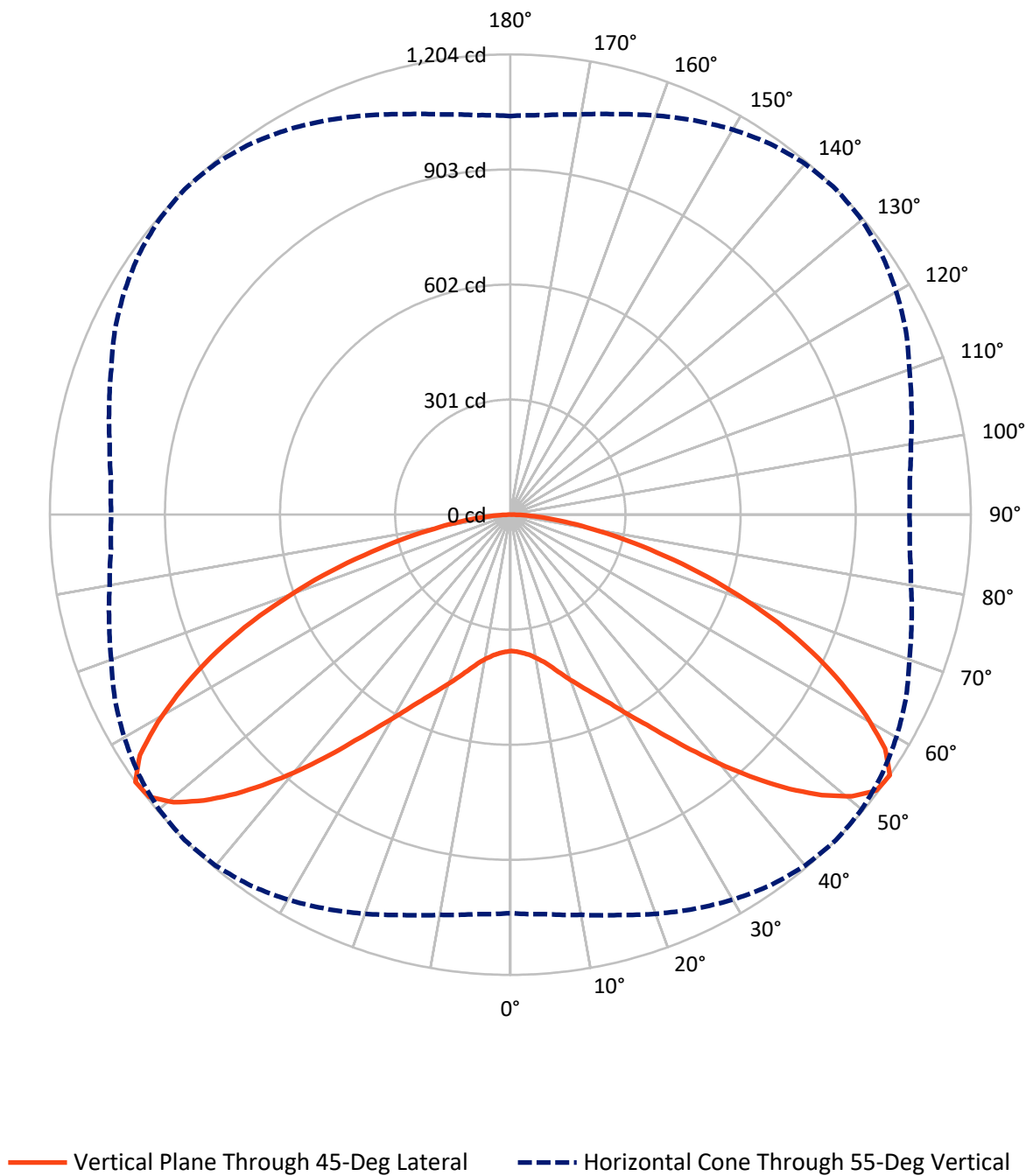


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P197924

CATALOG NUMBER: TT-C2-LED-E1-WQ-SG-7060

Luminous Intensity Polar Plot



REPORT NUMBER: P197924

CATALOG NUMBER: TT-C2-LED-E1-WQ-SG-7060

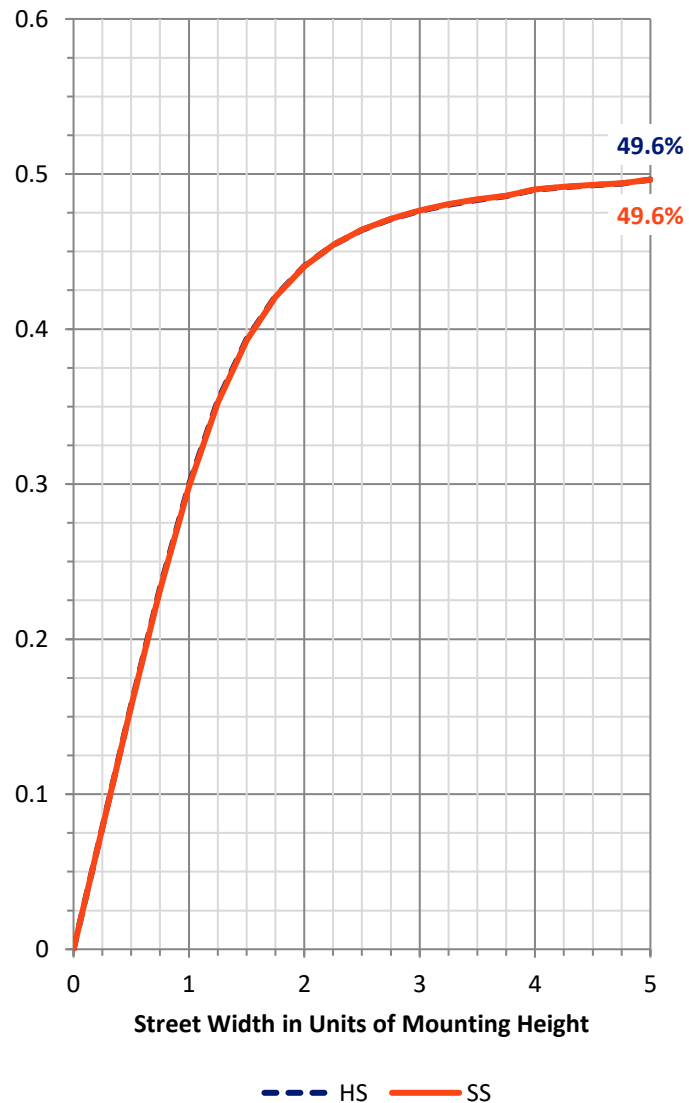
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1925.0	0.0	1925.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1925.0	0.0	1925.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3850.0	0.0	3850.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.2	0.9
10°-20°	119.5	3.1
20°-30°	243.4	6.3
30°-40°	444.4	11.5
40°-50°	754.7	19.6
50°-60°	982.8	25.5
60°-70°	794.9	20.6
70°-80°	390.6	10.1
80°-90°	84.5	2.2
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°	3850.0	100.0
0°-180°	3850.0	100.0

Coefficient of Utilization



REPORT NUMBER: P197924

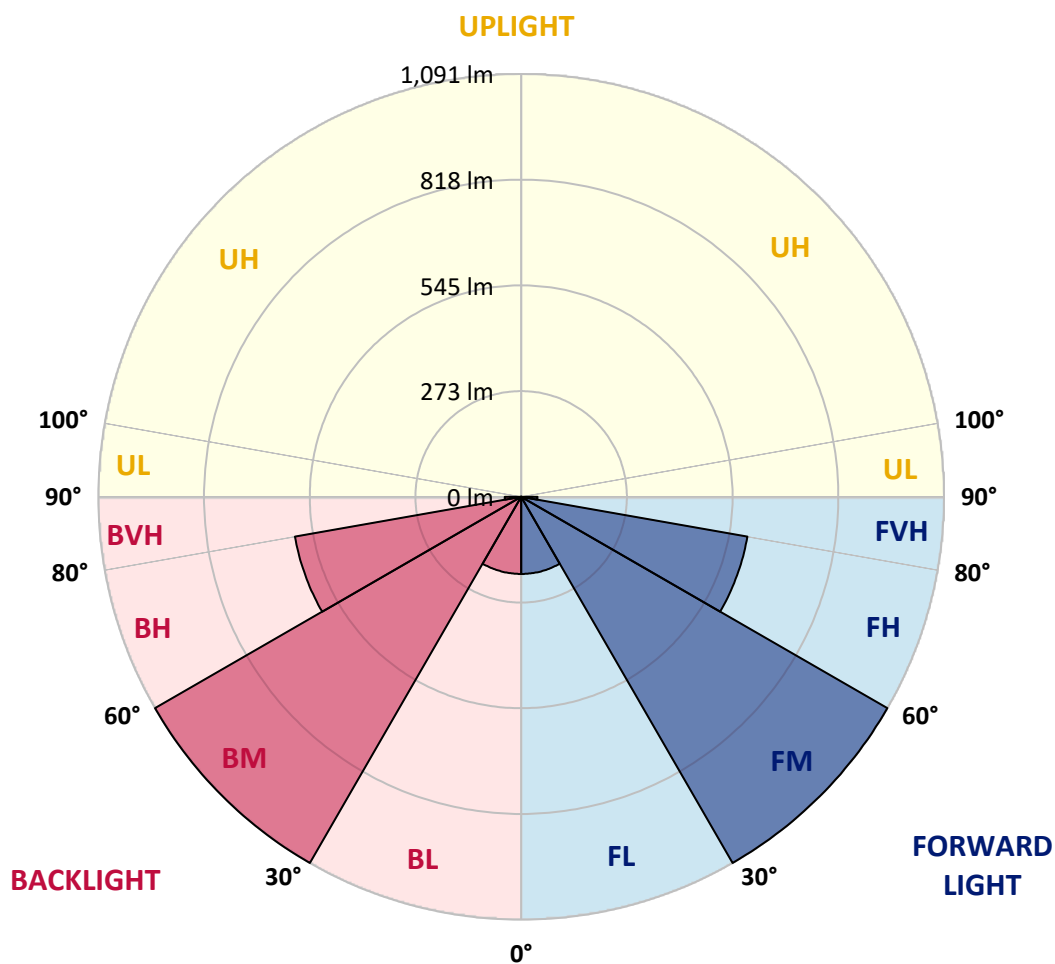
CATALOG NUMBER: TT-C2-LED-E1-WQ-SG-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	199.1	5.2			
FM	(30°-60°)	1091.0	28.3			
FH	(60°-80°)	592.7	15.4			G0/660
FVH	(80°-90°)	42.3	1.1			G1/100
BL	(0°-30°)	199.1	5.2	B1/500		
BM	(30°-60°)	1091.0	28.3	B2/2500		
BH	(60°-80°)	592.7	15.4	B2/1000		G0/660
BVH	(80°-90°)	42.3	1.1			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



REPORT NUMBER: P197924

CATALOG NUMBER: TT-C2-LED-E1-WQ-SG-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	356.7	356.7	356.7	356.7	356.7	356.7	356.7	356.7	356.7	356.7	356.7
2.5°	358.3	358.3	358.3	358.3	358.3	358.3	359.1	359.1	359.1	359.1	359.1
5°	363.0	363.0	363.0	363.8	363.8	363.8	363.8	363.8	363.8	363.8	363.8
7.5°	370.1	369.3	370.1	370.1	370.1	370.9	370.9	370.1	370.9	370.9	370.9
10°	380.4	379.6	380.4	380.4	380.4	381.2	381.2	381.2	381.2	381.9	381.9
12.5°	395.3	394.5	395.3	396.1	395.3	396.1	396.1	396.1	396.1	396.1	396.1
15°	414.2	413.4	414.2	415.0	414.2	415.8	415.8	415.0	415.0	415.8	415.8
17.5°	437.1	435.5	436.3	437.1	437.1	438.6	438.6	437.9	438.6	439.4	438.6
20°	460.7	459.1	459.9	462.3	462.3	463.1	464.6	463.8	464.6	465.4	464.6
22.5°	486.7	485.9	486.7	489.0	489.0	489.8	492.2	492.2	492.2	493.0	492.2
25°	515.0	514.2	515.0	517.4	517.4	519.0	522.1	522.1	522.9	523.7	522.9
27.5°	548.1	547.3	548.9	551.3	552.0	554.4	558.3	559.1	559.9	560.7	559.1
30°	586.7	585.1	587.5	591.4	593.0	596.1	600.9	602.4	603.2	605.6	604.0
32.5°	630.8	629.2	632.4	637.1	639.5	644.2	650.5	652.1	654.4	656.0	653.6
35°	682.8	682.0	685.1	692.2	696.2	701.7	710.3	712.7	714.3	717.4	714.3
37.5°	740.3	739.5	745.0	752.9	759.9	768.6	778.1	782.0	784.4	788.3	784.4
40°	804.0	803.3	810.3	819.8	828.5	839.5	851.3	856.8	861.5	865.5	860.7
42.5°	869.4	869.4	878.1	888.3	900.9	914.3	927.7	934.0	941.9	944.2	938.7
45°	932.4	933.2	941.9	954.5	972.6	989.9	1004.9	1012.7	1021.4	1023.8	1016.7
47.5°	992.3	993.0	1000.9	1017.5	1037.9	1057.6	1075.7	1086.8	1095.4	1096.2	1090.7
50°	1041.1	1044.2	1054.5	1069.4	1090.7	1111.2	1133.2	1147.4	1156.1	1158.4	1152.9
52.5°	1060.0	1065.5	1077.3	1096.2	1120.6	1141.9	1166.3	1184.4	1194.7	1198.6	1193.9
55°	1042.7	1049.0	1063.1	1084.4	1111.2	1138.0	1163.2	1184.4	1198.6	1204.1	1199.4
57.5°	1004.1	1004.9	1019.0	1040.3	1064.7	1092.3	1116.7	1136.4	1149.8	1155.3	1154.5
60°	937.1	937.1	950.5	971.0	989.9	1018.2	1038.7	1053.7	1063.1	1069.4	1067.9
62.5°	847.4	847.4	859.2	880.4	899.3	923.7	943.4	959.2	965.5	972.6	974.1
65°	747.3	747.3	758.4	779.6	797.0	819.0	837.9	852.9	859.2	867.8	866.3
67.5°	641.0	640.2	650.5	668.6	685.1	705.6	723.7	737.9	745.0	755.2	748.1
70°	531.6	531.6	540.2	554.4	566.2	586.7	604.0	618.2	623.7	632.4	628.4
72.5°	427.6	426.8	433.9	444.9	454.4	472.5	482.7	498.5	503.2	515.0	508.7
75°	333.9	332.3	337.8	345.7	352.0	363.8	371.7	384.3	388.2	396.1	393.0
77.5°	251.2	250.4	252.8	258.3	263.0	272.5	275.6	281.9	285.1	293.0	286.7
80°	180.3	178.0	180.3	183.5	185.1	192.2	192.9	195.3	196.9	202.4	196.1
82.5°	121.3	118.1	119.7	122.1	122.1	126.0	126.8	126.0	129.2	130.7	127.6
85°	69.3	66.9	67.7	69.3	68.5	70.9	70.9	70.1	72.5	72.5	70.9
87.5°	22.8	21.3	22.1	22.8	22.8	23.6	24.4	23.6	25.2	25.2	23.6
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: P197924

CATALOG NUMBER: TT-C2-LED-E1-WQ-SG-7060

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	356.7	356.7	356.7	356.7	356.7	356.7	356.7	356.7
2.5°	359.1	359.1	359.1	359.1	359.1	359.1	359.1	359.1
5°	363.8	363.8	363.8	363.8	363.8	363.0	363.0	363.0
7.5°	370.9	370.9	370.9	370.9	370.9	370.1	370.1	370.1
10°	381.9	381.2	381.2	381.2	381.2	380.4	381.2	380.4
12.5°	396.1	396.9	396.9	396.1	396.9	395.3	395.3	395.3
15°	415.8	415.0	415.0	415.0	415.0	414.2	414.2	414.2
17.5°	437.9	437.9	437.1	437.1	436.3	435.5	435.5	435.5
20°	463.8	463.1	462.3	461.5	460.7	459.1	458.3	458.3
22.5°	490.6	489.8	489.0	488.3	487.5	485.9	484.3	484.3
25°	520.5	519.0	518.2	516.6	515.0	513.5	512.7	511.9
27.5°	556.8	555.2	552.8	550.5	547.3	546.5	545.0	545.0
30°	600.1	597.7	594.6	590.6	587.5	584.3	582.8	582.0
32.5°	650.5	647.3	641.8	637.1	631.6	628.4	626.1	624.5
35°	709.5	704.8	698.5	691.4	684.3	678.8	674.9	674.9
37.5°	778.8	771.8	762.3	753.6	743.4	737.1	732.4	729.2
40°	854.4	844.2	832.4	821.4	809.6	800.9	793.8	794.6
42.5°	929.3	920.6	906.4	893.0	878.1	866.3	857.6	856.8
45°	1008.0	997.0	979.7	962.3	945.0	930.8	920.6	919.0
47.5°	1081.2	1069.4	1049.0	1027.7	1008.8	993.0	982.0	980.4
50°	1141.1	1126.9	1105.7	1082.8	1062.3	1045.0	1033.2	1030.1
52.5°	1179.7	1163.9	1141.1	1113.5	1091.5	1071.8	1057.6	1053.7
55°	1186.0	1165.5	1141.1	1110.4	1086.0	1063.9	1048.2	1043.4
57.5°	1142.7	1120.6	1098.6	1071.8	1047.4	1023.8	1011.2	1004.9
60°	1058.4	1041.1	1023.0	998.6	978.9	956.8	946.6	943.4
62.5°	961.5	946.6	930.0	904.8	888.3	868.6	859.2	855.2
65°	857.6	840.3	824.5	804.0	785.9	769.4	756.0	754.4
67.5°	742.6	724.5	711.1	693.0	674.9	659.1	650.5	645.8
70°	621.3	606.4	593.0	573.3	561.5	546.5	540.2	535.5
72.5°	500.9	492.2	475.7	463.1	449.7	437.9	433.9	429.2
75°	387.5	377.2	364.6	356.7	346.5	340.2	337.1	333.9
77.5°	284.3	275.6	268.5	265.4	260.7	254.4	252.0	249.6
80°	196.9	192.9	188.2	187.4	184.3	179.6	178.8	178.0
82.5°	127.6	125.2	123.6	123.6	122.1	118.9	118.1	118.1
85°	70.9	70.1	70.9	70.1	68.5	66.9	66.9	66.9
87.5°	23.6	23.6	24.4	25.2	22.8	22.8	22.1	22.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)