

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: P197923

Luminaire Tested: **TT-C2-LED-E1-WQ-SG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197923
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3939.4 lumens
Efficiency: N/A
Efficacy: 115.9 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

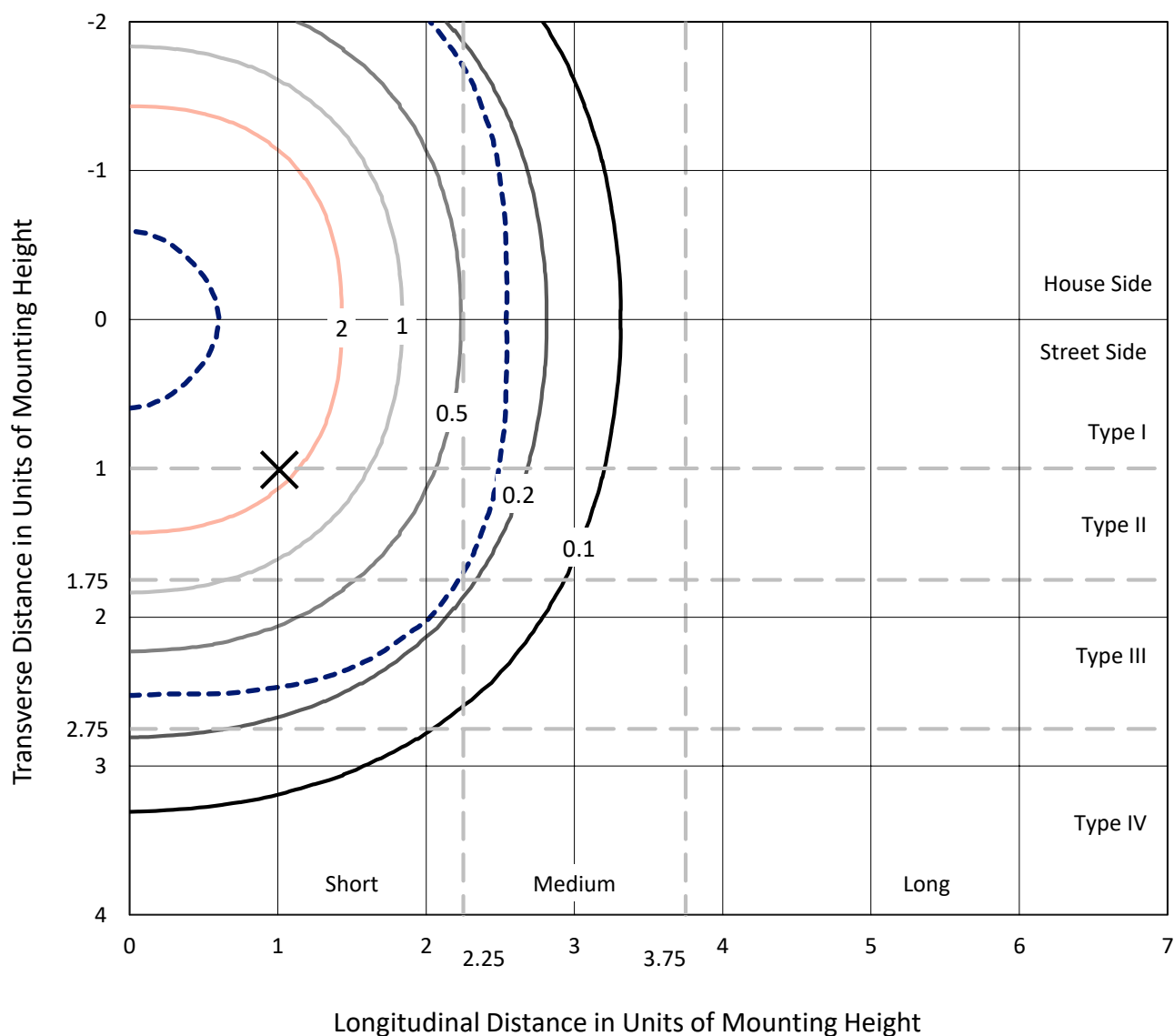


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

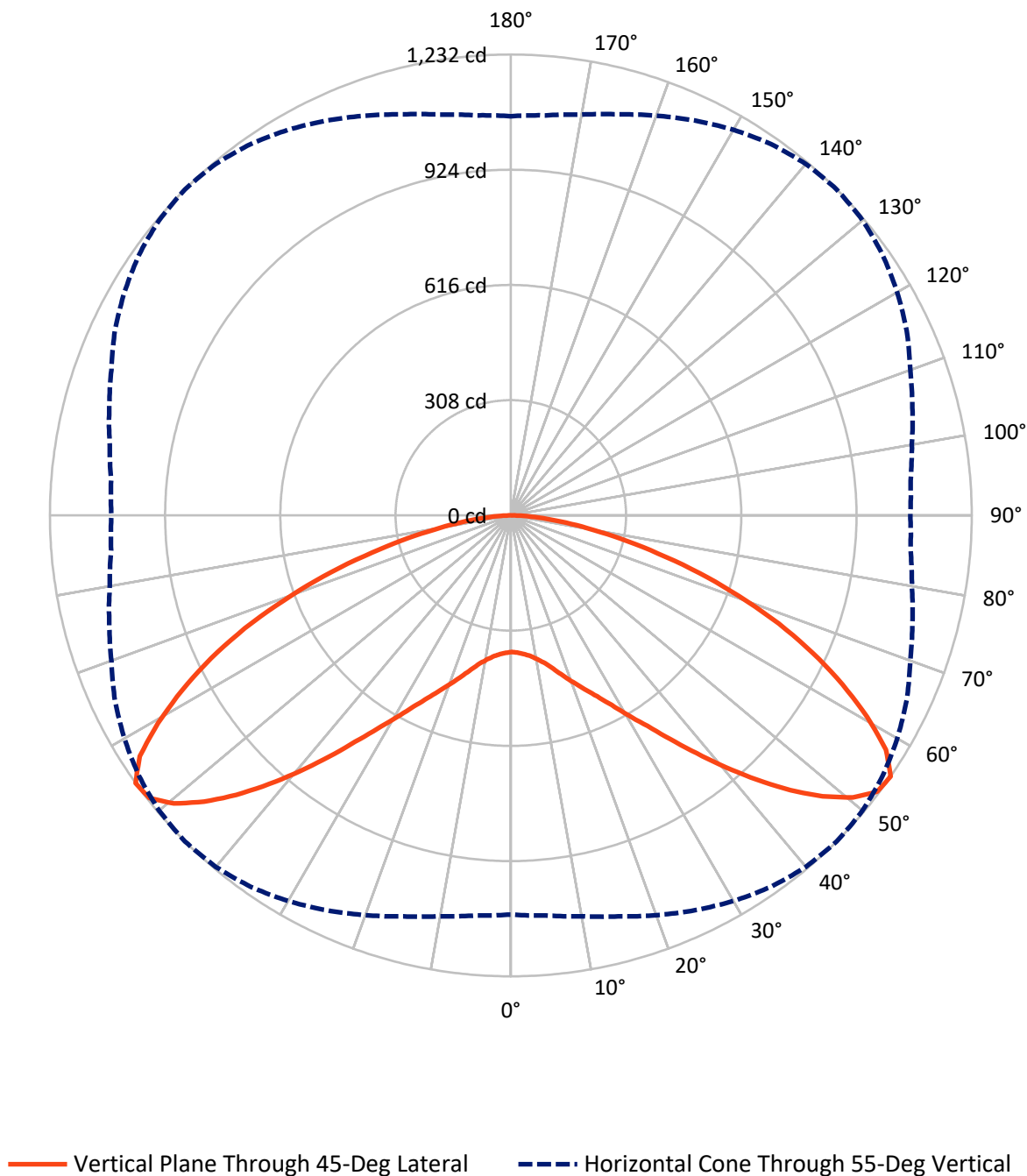


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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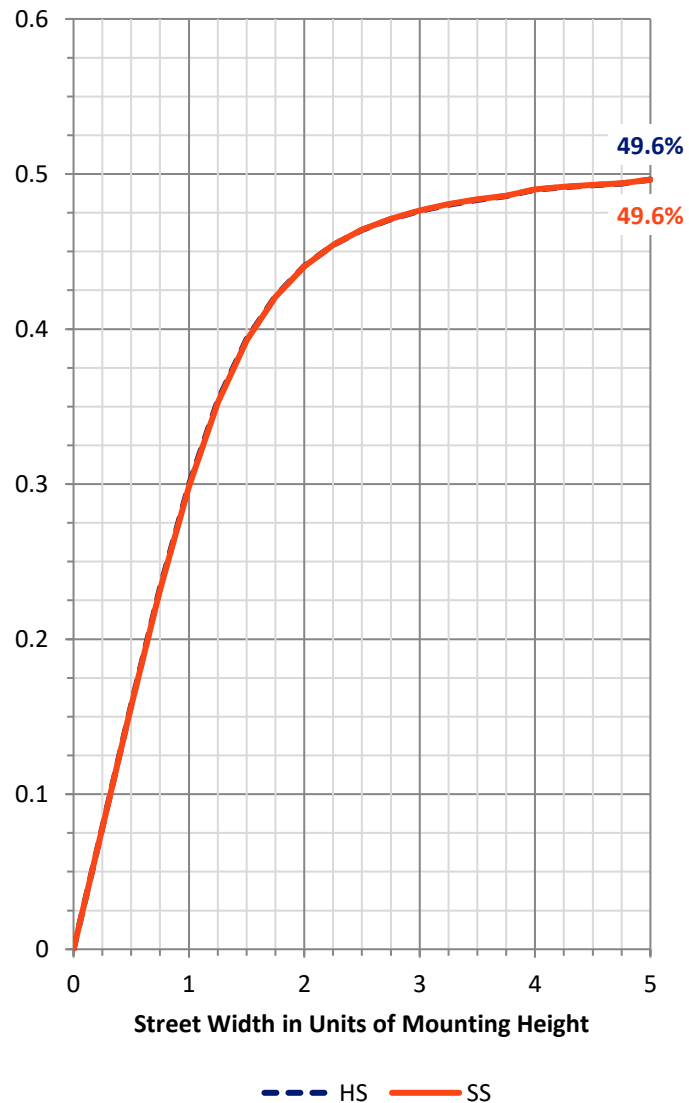
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1969.7	0.0	1969.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1969.7	0.0	1969.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	3939.4	0.0	3939.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	0.9
10°-20°	122.3	3.1
20°-30°	249.0	6.3
30°-40°	454.8	11.5
40°-50°	772.2	19.6
50°-60°	1005.6	25.5
60°-70°	813.3	20.6
70°-80°	399.7	10.1
80°-90°	86.5	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°	3939.4	100.0
0°-180°	3939.4	100.0

Coefficient of Utilization



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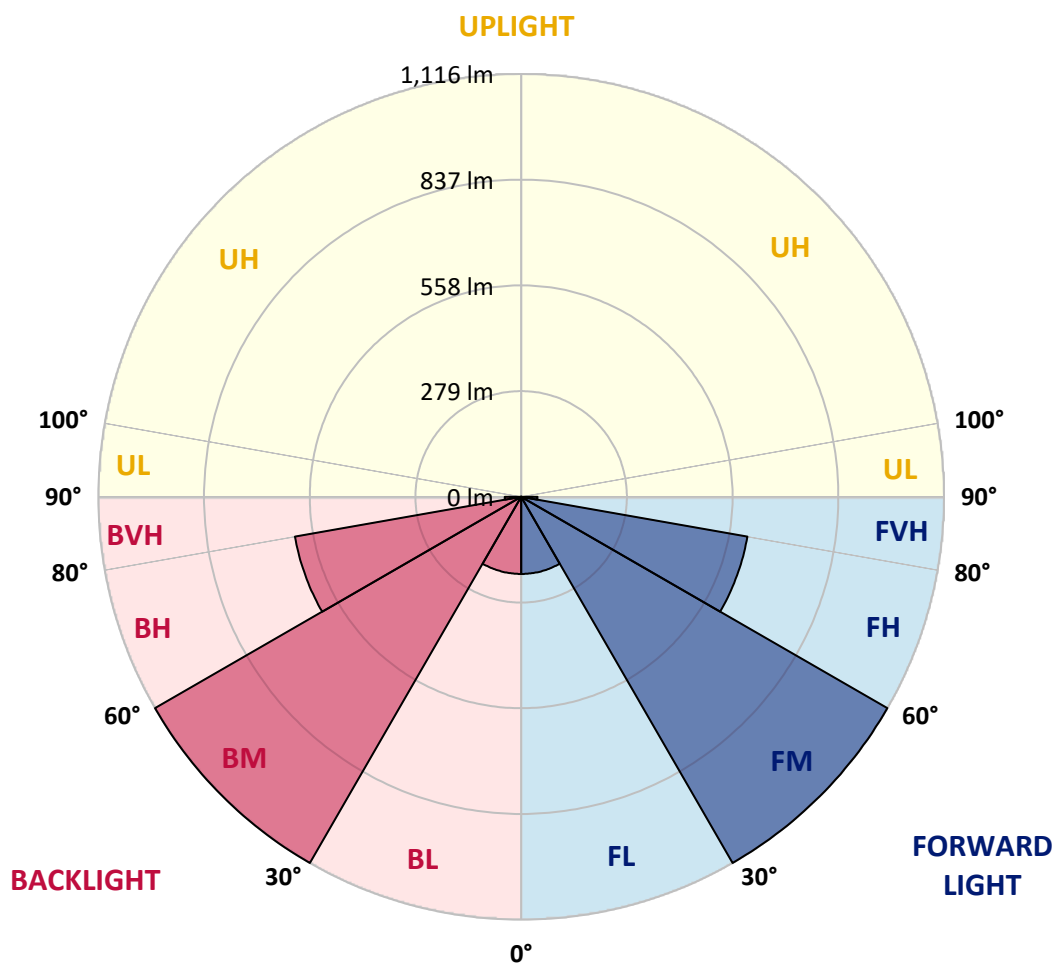
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	203.7	5.2			
FM	(30°-60°)	1116.3	28.3			
FH	(60°-80°)	606.5	15.4			G0/660
FVH	(80°-90°)	43.3	1.1			G1/100
BL	(0°-30°)	203.7	5.2	B1/500		
BM	(30°-60°)	1116.3	28.3	B2/2500		
BH	(60°-80°)	606.5	15.4	B2/1000		G0/660
BVH	(80°-90°)	43.3	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	365.0	365.0	365.0	365.0	365.0	365.0	365.0	365.0	365.0	365.0	365.0
2.5°	366.6	366.6	366.6	366.6	366.6	366.6	367.4	367.4	367.4	367.4	367.4
5°	371.5	371.5	371.5	372.3	372.3	372.3	372.3	372.3	372.3	372.3	372.3
7.5°	378.7	377.9	378.7	378.7	378.7	379.5	379.5	378.7	379.5	379.5	379.5
10°	389.2	388.4	389.2	389.2	389.2	390.0	390.0	390.0	390.0	390.0	390.8
12.5°	404.5	403.7	404.5	405.3	404.5	405.3	405.3	405.3	405.3	405.3	405.3
15°	423.8	423.0	423.8	424.6	423.8	425.5	425.5	424.6	424.6	425.5	425.5
17.5°	447.2	445.6	446.4	447.2	447.2	448.8	448.8	448.0	448.8	449.6	448.8
20°	471.4	469.8	470.6	473.0	473.0	473.8	475.4	474.6	475.4	476.2	475.4
22.5°	498.0	497.2	498.0	500.4	500.4	501.2	503.6	503.6	503.6	504.4	503.6
25°	527.0	526.2	527.0	529.4	529.4	531.0	534.2	534.2	535.0	535.8	535.0
27.5°	560.8	560.0	561.6	564.0	564.9	567.3	571.3	572.1	572.9	573.7	572.1
30°	600.3	598.7	601.1	605.1	606.8	610.0	614.8	616.4	617.2	619.6	618.0
32.5°	645.4	643.8	647.0	651.9	654.3	659.1	665.6	667.2	669.6	671.2	668.8
35°	698.6	697.8	701.0	708.3	712.3	718.0	726.8	729.2	730.8	734.1	730.8
37.5°	757.4	756.6	762.3	770.3	777.6	786.4	796.1	800.1	802.6	806.6	802.6
40°	822.7	821.9	829.2	838.8	847.7	859.0	871.1	876.7	881.5	885.6	880.7
42.5°	889.6	889.6	898.4	908.9	921.8	935.5	949.2	955.7	963.7	966.1	960.5
45°	954.0	954.9	963.7	976.6	995.1	1012.9	1028.2	1036.2	1045.1	1047.5	1040.3
47.5°	1015.3	1016.1	1024.2	1041.1	1062.0	1082.2	1100.7	1112.0	1120.8	1121.7	1116.0
50°	1065.2	1068.5	1078.9	1094.3	1116.0	1137.0	1159.5	1174.0	1182.9	1185.3	1179.7
52.5°	1084.6	1090.2	1102.3	1121.7	1146.6	1168.4	1193.4	1211.9	1222.4	1226.4	1221.6
55°	1066.9	1073.3	1087.8	1109.6	1137.0	1164.4	1190.1	1211.9	1226.4	1232.0	1227.2
57.5°	1027.4	1028.2	1042.7	1064.4	1089.4	1117.6	1142.6	1162.7	1176.4	1182.1	1181.3
60°	958.9	958.9	972.6	993.5	1012.9	1041.9	1062.8	1078.1	1087.8	1094.3	1092.6
62.5°	867.0	867.0	879.1	900.9	920.2	945.2	965.3	981.4	987.9	995.1	996.8
65°	764.7	764.7	776.0	797.7	815.5	838.0	857.4	872.7	879.1	888.0	886.4
67.5°	655.9	655.1	665.6	684.1	701.0	722.0	740.5	755.0	762.3	772.7	765.5
70°	543.9	543.9	552.8	567.3	579.4	600.3	618.0	632.5	638.2	647.0	643.0
72.5°	437.5	436.7	444.0	455.3	464.9	483.5	493.9	510.1	514.9	527.0	520.5
75°	341.7	340.0	345.7	353.7	360.2	372.3	380.3	393.2	397.3	405.3	402.1
77.5°	257.0	256.2	258.7	264.3	269.1	278.8	282.0	288.5	291.7	299.8	293.3
80°	184.5	182.1	184.5	187.7	189.4	196.6	197.4	199.8	201.4	207.1	200.6
82.5°	124.1	120.9	122.5	124.9	124.9	128.9	129.7	128.9	132.1	133.8	130.5
85°	70.9	68.5	69.3	70.9	70.1	72.5	72.5	71.7	74.1	74.1	72.5
87.5°	23.4	21.8	22.6	23.4	23.4	24.2	25.0	24.2	25.8	25.8	24.2
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°	365.0	365.0	365.0	365.0	365.0	365.0	365.0	365.0
2.5°	367.4	367.4	367.4	367.4	367.4	367.4	367.4	367.4
5°	372.3	372.3	372.3	372.3	372.3	371.5	371.5	371.5
7.5°	379.5	379.5	379.5	379.5	379.5	378.7	378.7	378.7
10°	390.8	390.0	390.0	390.0	390.0	389.2	390.0	389.2
12.5°	405.3	406.1	406.1	405.3	406.1	404.5	404.5	404.5
15°	425.5	424.6	424.6	424.6	424.6	423.8	423.8	423.8
17.5°	448.0	448.0	447.2	447.2	446.4	445.6	445.6	445.6
20°	474.6	473.8	473.0	472.2	471.4	469.8	469.0	469.0
22.5°	502.0	501.2	500.4	499.6	498.8	497.2	495.6	495.6
25°	532.6	531.0	530.2	528.6	527.0	525.4	524.6	523.8
27.5°	569.7	568.1	565.7	563.2	560.0	559.2	557.6	557.6
30°	614.0	611.6	608.4	604.3	601.1	597.9	596.3	595.5
32.5°	665.6	662.4	656.7	651.9	646.2	643.0	640.6	639.0
35°	726.0	721.2	714.7	707.5	700.2	694.6	690.6	690.6
37.5°	796.9	789.7	780.0	771.1	760.7	754.2	749.4	746.2
40°	874.3	863.8	851.7	840.4	828.3	819.5	812.2	813.0
42.5°	950.8	942.0	927.5	913.8	898.4	886.4	877.5	876.7
45°	1031.4	1020.1	1002.4	984.7	966.9	952.4	942.0	940.4
47.5°	1106.3	1094.3	1073.3	1051.5	1032.2	1016.1	1004.8	1003.2
50°	1167.6	1153.1	1131.3	1108.0	1087.0	1069.3	1057.2	1054.0
52.5°	1207.1	1190.9	1167.6	1139.4	1116.8	1096.7	1082.2	1078.1
55°	1213.5	1192.6	1167.6	1136.2	1111.2	1088.6	1072.5	1067.7
57.5°	1169.2	1146.6	1124.1	1096.7	1071.7	1047.5	1034.6	1028.2
60°	1083.0	1065.2	1046.7	1021.7	1001.6	979.0	968.6	965.3
62.5°	983.9	968.6	951.6	925.8	908.9	888.8	879.1	875.1
65°	877.5	859.8	843.7	822.7	804.2	787.3	773.6	771.9
67.5°	759.9	741.3	727.6	709.1	690.6	674.4	665.6	660.7
70°	635.8	620.5	606.8	586.6	574.5	559.2	552.8	547.9
72.5°	512.5	503.6	486.7	473.8	460.1	448.0	444.0	439.2
75°	396.4	386.0	373.1	365.0	354.5	348.1	344.9	341.7
77.5°	290.9	282.0	274.8	271.5	266.7	260.3	257.9	255.4
80°	201.4	197.4	192.6	191.8	188.6	183.7	182.9	182.1
82.5°	130.5	128.1	126.5	126.5	124.9	121.7	120.9	120.9
85°	72.5	71.7	72.5	71.7	70.1	68.5	68.5	68.5
87.5°	24.2	24.2	25.0	25.8	23.4	23.4	22.6	22.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)