

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: P197537

Luminaire Tested: **TT-C2-LED-E1-CQ-MS/DIM-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197537
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-CQ-MS/DIM-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4042.2 lumens
Efficiency: N/A
Efficacy: 118.9 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

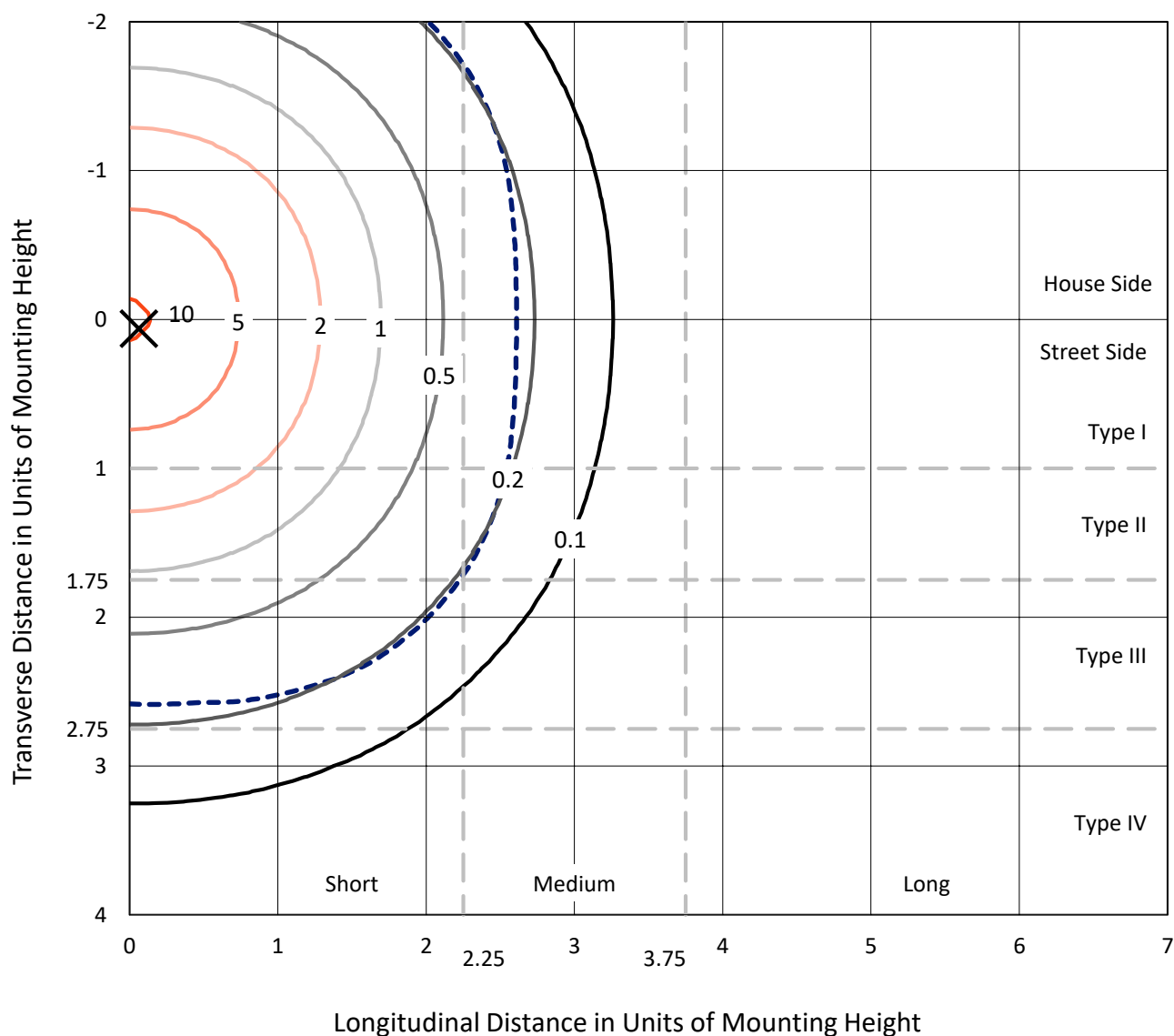


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

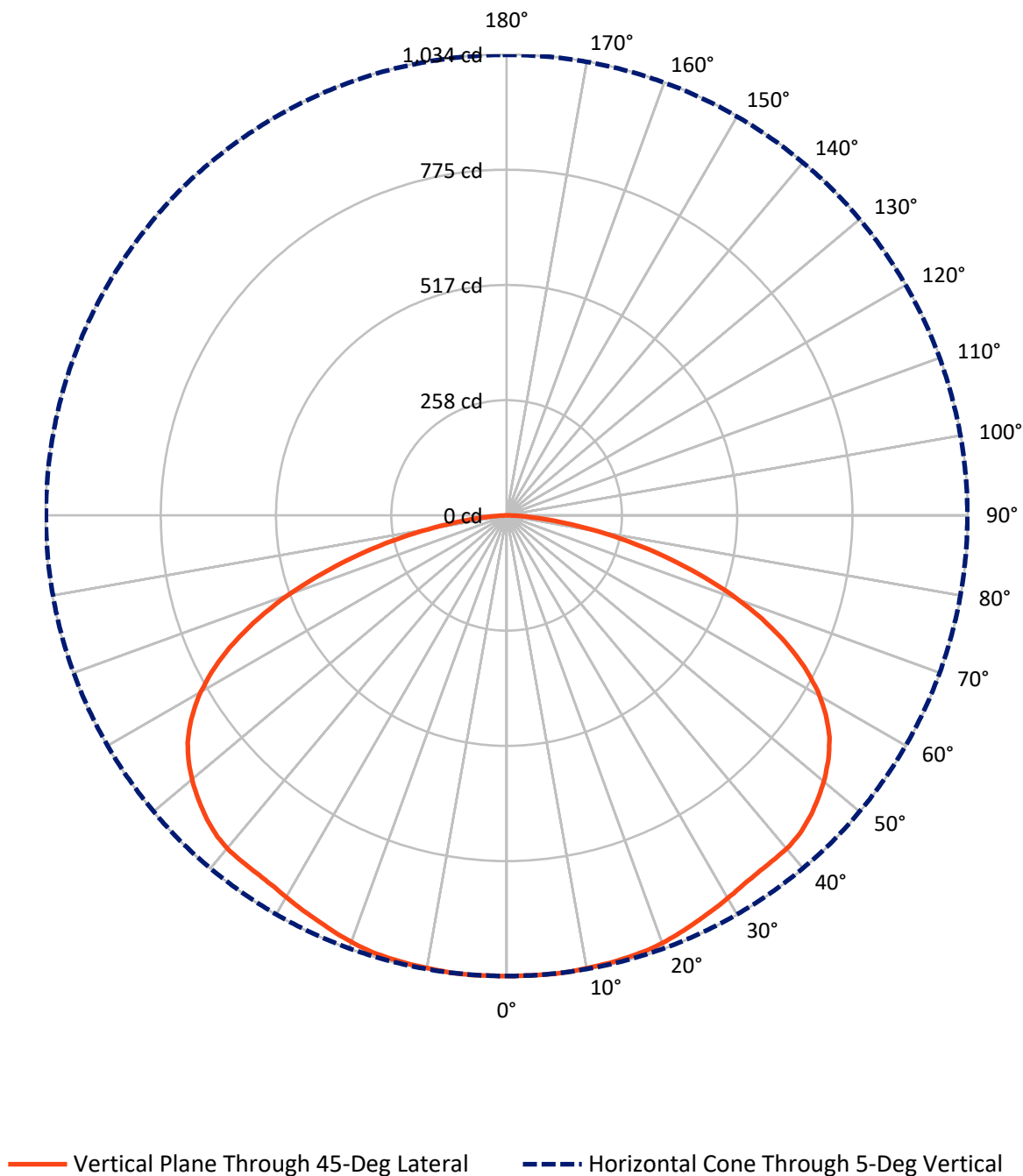


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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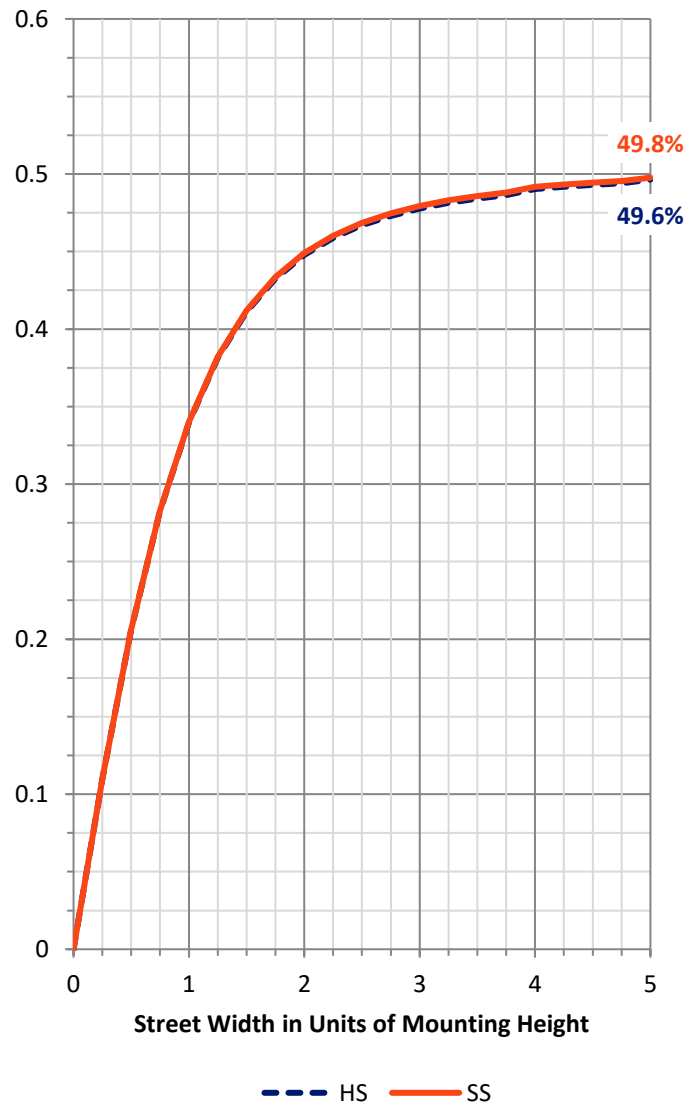
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2021.1	0.0	2021.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2021.1	0.0	2021.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	4042.2	0.0	4042.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	2.4
10°-20°	290.5	7.2
20°-30°	463.6	11.5
30°-40°	610.7	15.1
40°-50°	726.4	18.0
50°-60°	760.3	18.8
60°-70°	646.5	16.0
70°-80°	367.4	9.1
80°-90°	78.1	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°	4042.2	100.0
0°-180°	4042.2	100.0

Coefficient of Utilization



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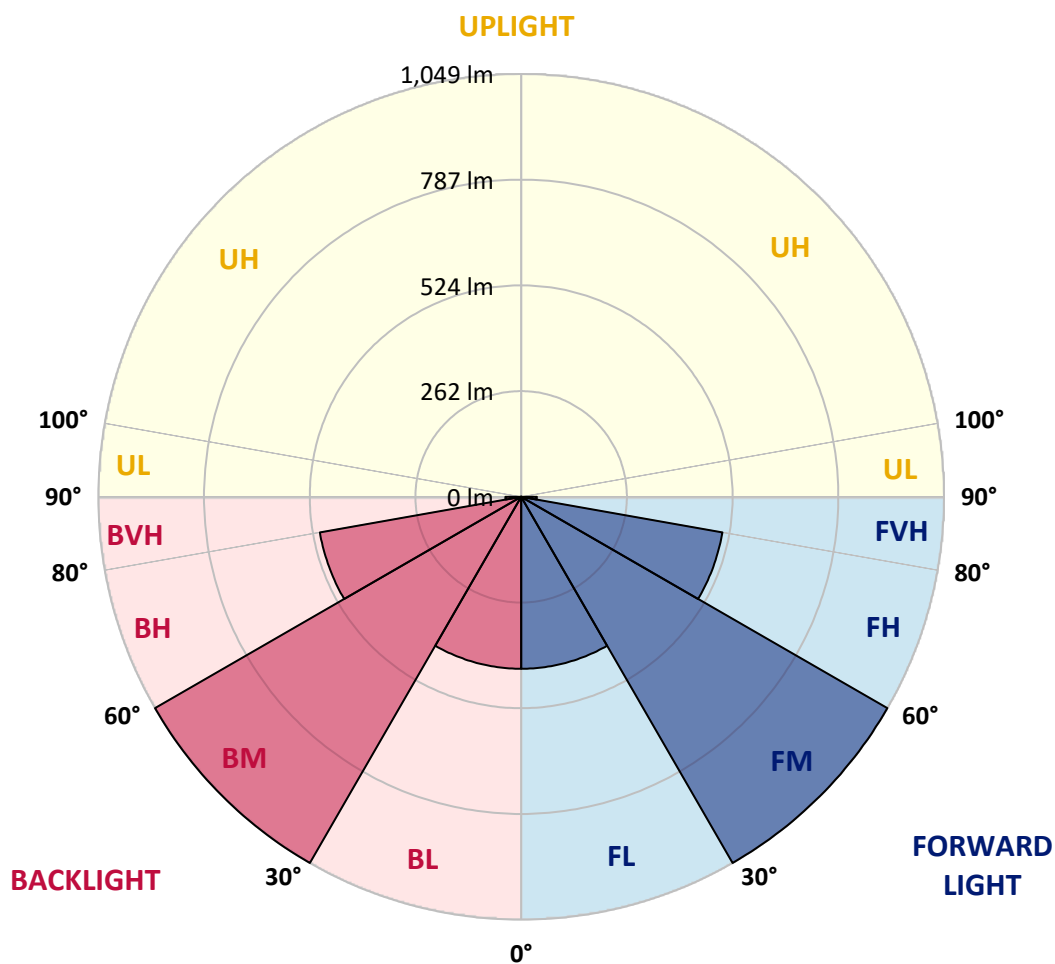
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	426.3	10.5			
FM	(30°-60°)	1048.7	25.9			
FH	(60°-80°)	507.0	12.5			G0/660
FVH	(80°-90°)	39.1	1.0			G1/100
BL	(0°-30°)	426.3	10.5	B1/500		
BM	(30°-60°)	1048.7	25.9	B2/2500		
BH	(60°-80°)	507.0	12.5	B2/1000		G0/660
BVH	(80°-90°)	39.1	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°	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8
2.5°	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8
5°	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1033.5	1032.8
7.5°	1032.0	1032.0	1032.0	1032.0	1032.8	1032.0	1032.0	1032.8	1032.8	1032.8	1032.8
10°	1030.4	1029.6	1029.6	1030.4	1030.4	1030.4	1030.4	1030.4	1031.2	1030.4	1030.4
12.5°	1028.0	1027.2	1028.0	1028.0	1028.0	1028.8	1028.8	1028.8	1029.6	1029.6	1028.8
15°	1025.6	1025.6	1025.6	1025.6	1025.6	1026.4	1026.4	1027.2	1027.2	1027.2	1027.2
17.5°	1022.4	1022.4	1022.4	1023.2	1023.2	1024.0	1024.0	1024.0	1024.8	1024.8	1024.8
20°	1016.8	1016.0	1016.8	1016.8	1017.6	1018.4	1018.4	1019.2	1019.2	1019.2	1019.2
22.5°	1008.8	1008.8	1009.6	1009.6	1010.4	1011.2	1011.2	1012.0	1012.0	1012.0	1012.0
25°	1000.9	1001.7	1001.7	1002.5	1002.5	1003.3	1004.1	1004.1	1004.1	1004.1	1004.1
27.5°	992.9	993.7	993.7	993.7	994.5	995.3	996.1	996.9	997.7	996.9	996.9
30°	984.1	984.1	984.9	985.7	986.5	987.3	988.9	989.7	990.5	989.7	989.7
32.5°	974.6	975.4	976.2	977.0	978.6	980.2	981.8	982.5	983.3	982.5	982.5
35°	967.4	967.4	969.0	970.6	972.2	974.6	976.2	977.8	979.4	978.6	977.8
37.5°	960.2	960.2	961.8	964.2	967.4	970.6	973.8	976.2	977.0	977.0	976.2
40°	951.5	952.3	953.9	957.8	962.6	966.6	970.6	973.8	975.4	975.4	973.8
42.5°	941.9	942.7	945.1	949.1	954.7	959.4	964.2	966.6	969.0	969.0	967.4
45°	928.4	929.2	932.3	936.3	941.9	946.7	952.3	954.7	957.8	957.0	956.3
47.5°	910.8	911.6	914.8	918.8	924.4	930.0	935.5	939.5	941.9	941.9	941.1
50°	889.3	890.1	893.3	897.3	904.5	910.8	916.4	920.4	924.4	924.4	923.6
52.5°	862.2	863.8	866.2	871.8	879.8	886.9	894.1	900.5	902.9	903.7	902.9
55°	828.8	830.3	833.5	839.9	848.7	857.4	865.4	872.6	875.8	878.2	876.6
57.5°	789.7	791.3	795.3	802.5	812.0	820.8	831.1	839.1	841.5	843.9	843.1
60°	743.5	745.9	749.9	757.8	767.4	777.0	786.5	796.1	798.5	801.7	800.1
62.5°	689.3	691.7	695.7	704.4	714.8	723.6	734.7	743.5	745.9	749.1	748.3
65°	627.1	629.5	633.5	643.1	652.6	662.2	672.6	682.1	684.5	687.7	686.9
67.5°	556.2	558.6	562.6	573.8	583.3	592.9	601.6	611.2	612.8	616.0	615.2
70°	481.3	484.5	487.7	498.0	506.8	514.8	524.3	532.3	535.5	537.1	535.5
72.5°	406.4	408.8	412.0	419.2	425.5	432.7	442.3	447.8	450.2	451.0	451.0
75°	329.1	331.5	331.5	339.5	344.3	348.2	356.2	360.2	361.8	363.4	363.4
77.5°	255.8	254.2	255.8	259.0	262.2	265.4	270.1	272.5	274.1	277.3	275.7
80°	179.3	180.1	180.9	183.3	184.9	185.7	188.9	189.7	190.5	193.6	192.0
82.5°	115.5	114.0	115.5	114.8	116.3	114.0	115.5	117.9	116.3	117.9	118.7
85°	60.6	58.2	58.2	59.0	59.8	58.2	59.0	58.2	58.2	59.8	59.0
87.5°	19.1	18.3	19.1	18.3	19.1	18.3	19.1	19.9	19.1	19.1	19.9
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°	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8
2.5°	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8
5°	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8
7.5°	1032.0	1032.0	1032.0	1032.0	1032.0	1032.0	1031.2	1032.0
10°	1030.4	1030.4	1030.4	1030.4	1029.6	1029.6	1029.6	1029.6
12.5°	1028.8	1028.8	1028.0	1028.0	1028.0	1028.0	1027.2	1027.2
15°	1027.2	1026.4	1026.4	1025.6	1025.6	1025.6	1024.8	1025.6
17.5°	1024.8	1024.0	1024.0	1023.2	1023.2	1022.4	1022.4	1022.4
20°	1019.2	1018.4	1018.4	1017.6	1017.6	1016.8	1016.0	1016.0
22.5°	1011.2	1011.2	1011.2	1010.4	1009.6	1009.6	1008.8	1008.8
25°	1004.1	1003.3	1003.3	1002.5	1001.7	1001.7	1000.9	1000.9
27.5°	996.9	996.1	995.3	993.7	993.7	992.9	992.1	991.3
30°	988.9	987.3	985.7	984.9	984.1	982.5	981.8	981.0
32.5°	981.0	979.4	977.8	976.2	973.8	973.0	971.4	971.4
35°	976.2	973.8	971.4	968.2	965.8	963.4	961.8	961.0
37.5°	973.8	970.6	966.6	962.6	958.6	955.5	953.1	953.1
40°	970.6	966.6	961.8	956.3	951.5	947.5	945.1	944.3
42.5°	964.2	960.2	953.9	949.1	942.7	938.7	935.5	934.7
45°	953.1	949.1	943.5	937.1	930.8	926.0	922.8	922.0
47.5°	938.7	933.9	927.6	921.2	914.8	909.2	906.0	905.3
50°	920.4	915.6	909.2	902.9	895.7	890.1	886.1	886.1
52.5°	899.7	894.1	886.9	879.8	871.8	866.2	862.2	861.4
55°	872.6	866.2	859.0	851.1	842.3	835.9	831.1	830.3
57.5°	839.1	831.9	824.0	815.2	806.4	799.3	793.7	792.9
60°	796.9	788.9	780.9	772.2	762.6	754.6	749.1	747.5
62.5°	745.1	736.3	727.5	719.6	709.2	701.3	695.7	694.1
65°	683.7	676.5	667.8	658.2	647.1	639.1	633.5	632.7
67.5°	612.0	604.8	596.1	587.3	576.1	569.0	563.4	561.8
70°	533.1	526.7	519.6	510.8	501.2	494.1	488.5	487.7
72.5°	449.4	443.9	437.5	431.1	421.5	416.0	411.2	410.4
75°	363.4	357.8	353.0	348.2	341.1	337.1	332.3	332.3
77.5°	275.7	274.1	270.9	265.4	261.4	258.2	255.8	254.2
80°	192.8	191.3	189.7	186.5	184.1	183.3	181.7	180.1
82.5°	117.9	117.1	117.9	116.3	115.5	115.5	114.8	113.2
85°	59.8	60.6	59.8	59.0	59.0	59.0	59.0	58.2
87.5°	19.1	19.9	19.1	18.3	18.3	18.3	18.3	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)