

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: P197589

Luminaire Tested: **TT-C3-LED-E1-MQ-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115393)
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-LWR-LW-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4765.2 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full 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



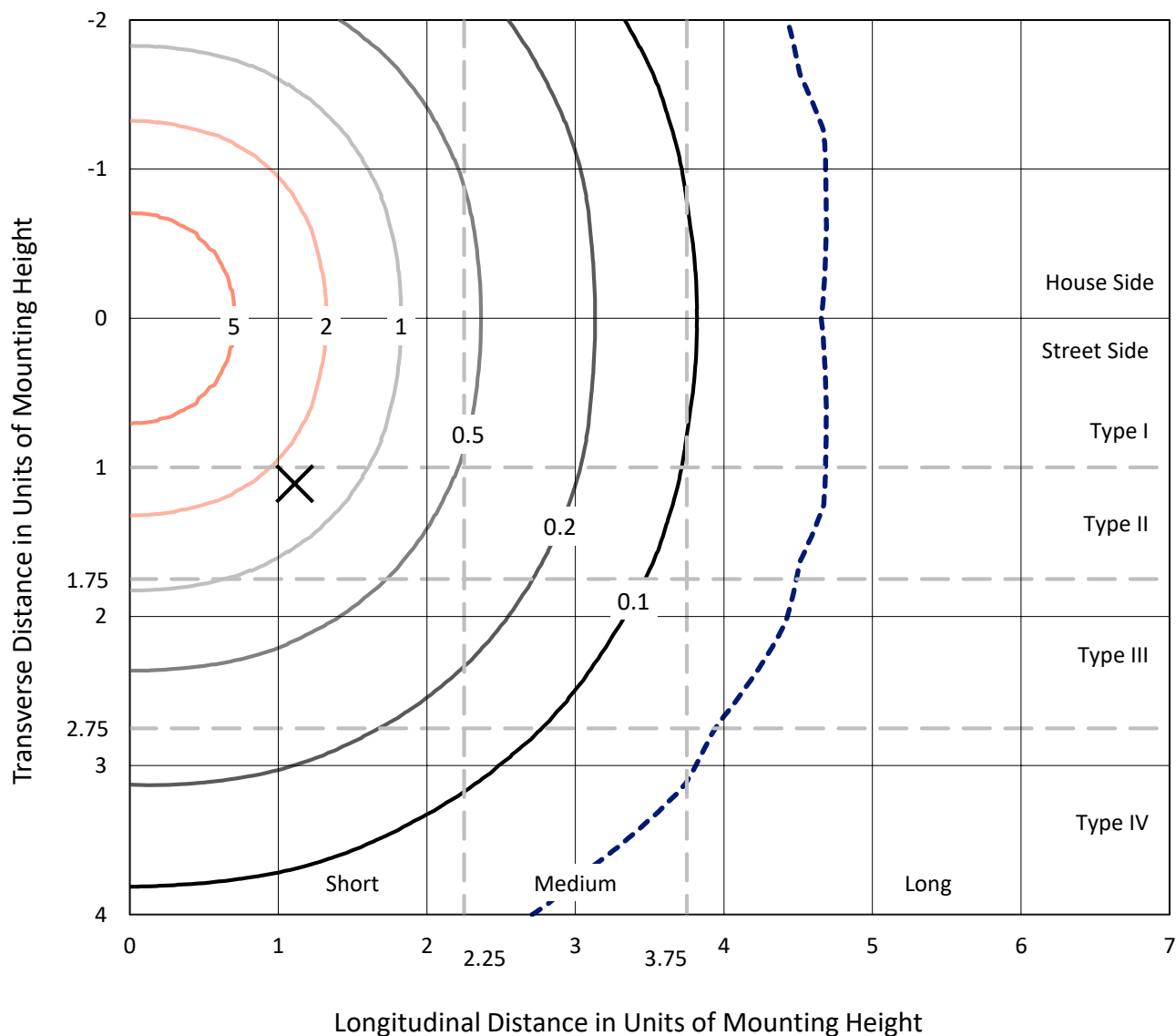
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

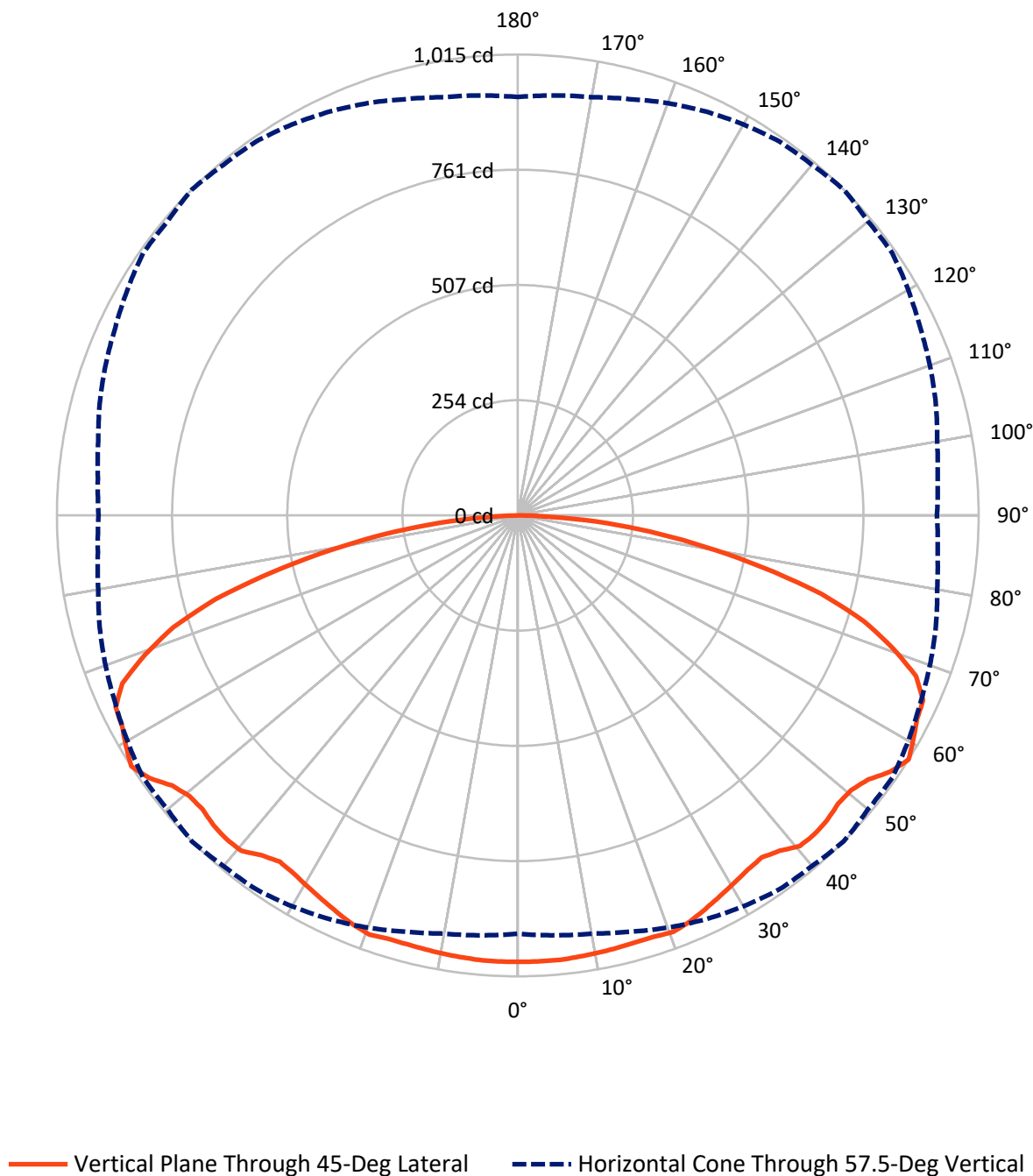


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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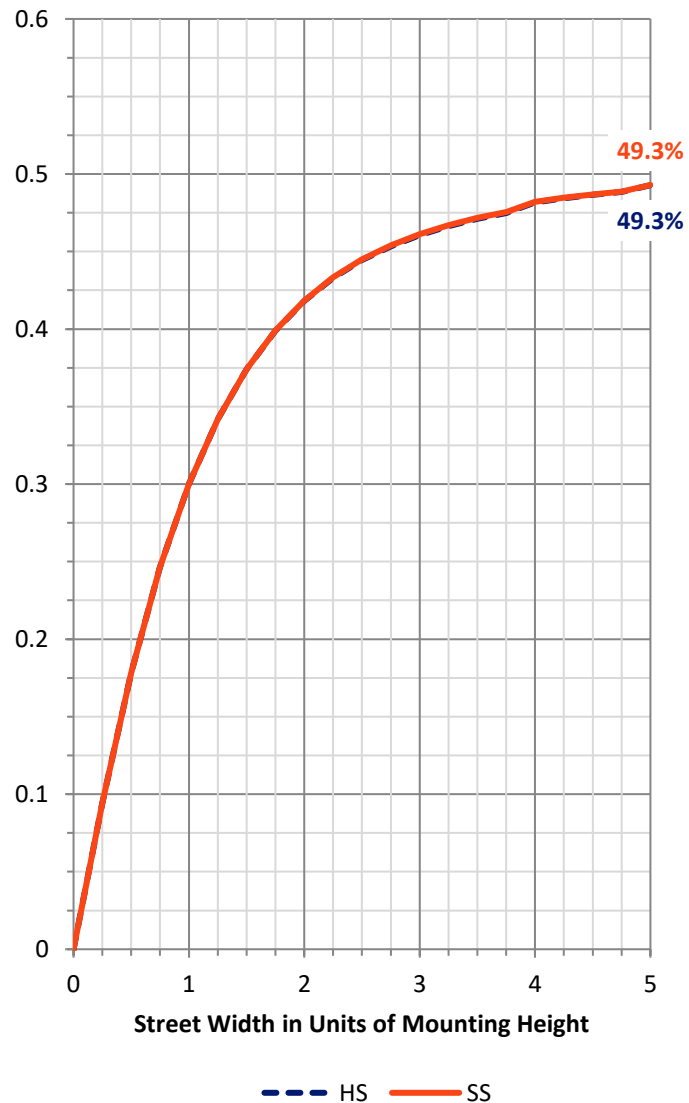
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2382.6	0.0	2382.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2382.6	0.0	2382.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	4765.2	0.0	4765.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	2.0
10°-20°	276.3	5.8
20°-30°	442.5	9.3
30°-40°	582.5	12.2
40°-50°	725.5	15.2
50°-60°	854.7	17.9
60°-70°	908.6	19.1
70°-80°	681.4	14.3
80°-90°	200.1	4.2
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°	4765.2	100.0
0°-180°	4765.2	100.0

Coefficient of Utilization



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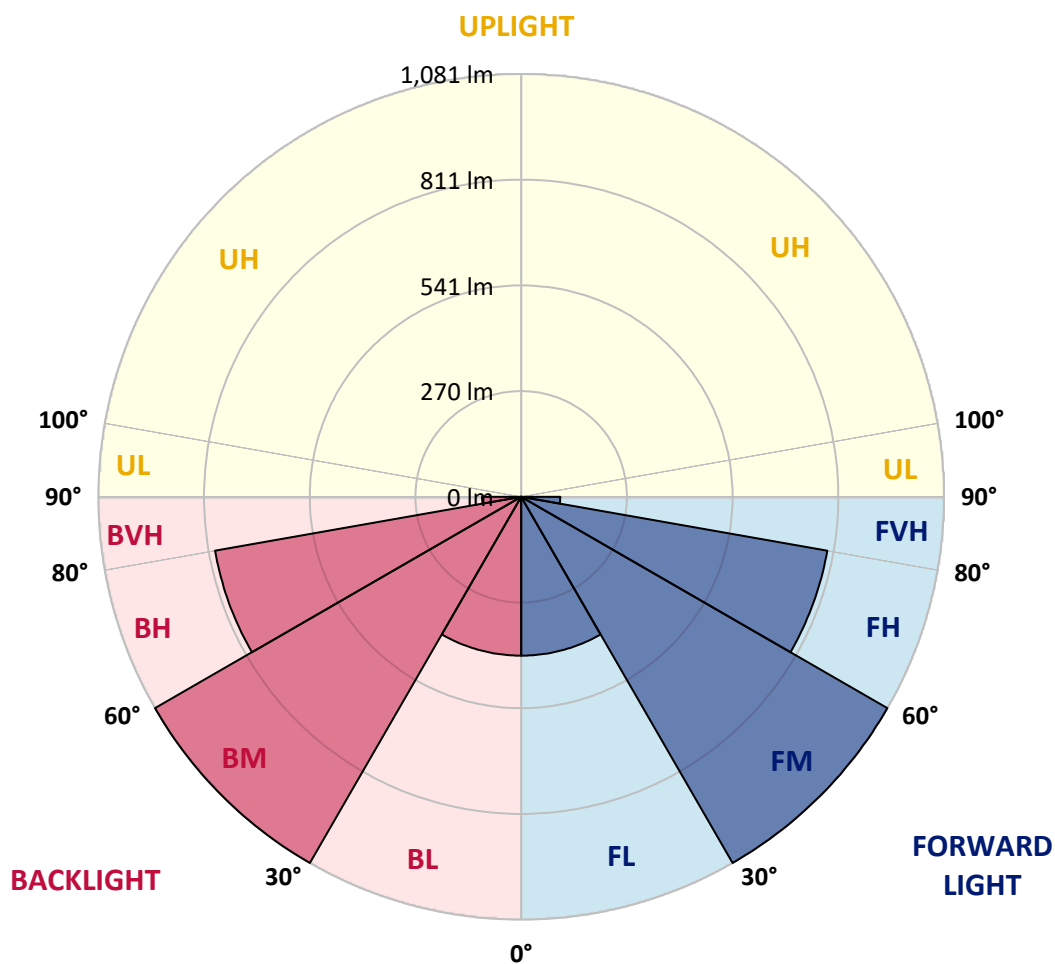
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	406.2	8.5			
FM	(30°-60°)	1081.4	22.7			
FH	(60°-80°)	795.0	16.7			G1/1800
FVH	(80°-90°)	100.0	2.1			G2/225
BL	(0°-30°)	406.2	8.5	B1/500		
BM	(30°-60°)	1081.4	22.7	B2/2500		
BH	(60°-80°)	795.0	16.7	B2/1000		G1/1800
BVH	(80°-90°)	100.0	2.1			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°	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9
2.5°	981.9	981.9	981.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9
5°	981.9	981.9	981.9	981.9	981.9	981.9	982.9	982.9	982.9	982.9	982.9
7.5°	979.9	979.9	979.9	979.9	979.9	980.9	980.9	980.9	980.9	980.9	980.9
10°	977.9	977.9	977.9	977.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9
12.5°	976.0	976.0	975.0	976.0	976.0	976.0	977.0	977.0	977.0	977.0	977.0
15°	972.0	972.0	973.0	973.0	974.0	974.0	974.0	974.0	975.0	975.0	975.0
17.5°	970.0	970.0	971.0	972.0	972.0	973.0	974.0	974.0	975.0	975.0	975.0
20°	973.0	973.0	973.0	974.0	975.0	976.0	977.0	977.9	977.9	978.9	977.9
22.5°	967.0	967.0	967.0	968.0	968.0	968.0	969.0	970.0	970.0	971.0	970.0
25°	956.0	956.0	957.0	957.0	958.0	958.0	959.0	959.0	959.0	960.0	960.0
27.5°	945.0	944.0	946.0	946.0	947.0	947.0	948.0	949.0	949.0	949.0	950.0
30°	933.0	933.0	934.0	934.0	935.0	936.0	937.0	938.0	938.0	939.0	939.0
32.5°	920.1	921.1	922.1	923.1	924.1	926.1	927.1	928.1	929.1	930.0	929.1
35°	911.1	912.1	913.1	915.1	918.1	920.1	922.1	924.1	925.1	925.1	925.1
37.5°	913.1	914.1	916.1	920.1	925.1	928.1	932.0	935.0	936.0	937.0	937.0
40°	924.1	926.1	929.1	934.0	940.0	945.0	951.0	954.0	956.0	957.0	956.0
42.5°	923.1	926.1	929.1	935.0	942.0	947.0	953.0	956.0	958.0	959.0	958.0
45°	920.1	922.1	925.1	931.0	936.0	943.0	949.0	952.0	955.0	956.0	955.0
47.5°	913.1	913.1	914.1	920.1	927.1	936.0	941.0	946.0	949.0	949.0	949.0
50°	904.1	908.1	910.1	918.1	925.1	933.0	942.0	949.0	950.0	951.0	950.0
52.5°	904.1	905.1	912.1	917.1	931.0	943.0	952.0	959.0	965.0	966.0	966.0
55°	920.1	922.1	926.1	938.0	949.0	967.0	981.9	987.9	991.9	995.9	991.9
57.5°	921.1	928.1	935.0	949.0	966.0	980.9	993.9	1004.9	1007.9	1014.9	1006.9
60°	909.1	911.1	918.1	935.0	957.0	973.0	984.9	994.9	1004.9	1000.9	1004.9
62.5°	890.1	895.1	905.1	918.1	936.0	955.0	973.0	976.0	990.9	986.9	992.9
65°	875.2	879.2	889.1	908.1	930.0	942.0	962.0	974.0	973.0	980.9	972.0
67.5°	838.2	841.2	850.2	869.2	890.1	908.1	914.1	933.0	935.0	946.0	936.0
70°	777.4	784.4	797.3	815.3	832.3	847.2	858.2	868.2	874.2	876.2	874.2
72.5°	701.5	712.5	722.5	739.4	756.4	766.4	773.4	787.3	791.3	797.3	795.3
75°	623.7	623.7	633.7	646.6	659.6	665.6	669.6	678.6	683.6	690.6	684.6
77.5°	516.9	522.9	531.9	542.9	540.9	543.9	543.9	548.8	546.9	551.8	555.8
80°	405.2	411.1	419.1	427.1	426.1	419.1	424.1	418.1	416.1	417.1	420.1
82.5°	289.4	293.4	300.4	305.4	305.4	300.4	302.4	296.4	298.4	293.4	297.4
85°	165.7	170.6	175.6	180.6	180.6	177.6	180.6	172.6	173.6	173.6	173.6
87.5°	40.9	44.9	46.9	49.9	47.9	52.9	55.9	50.9	51.9	49.9	52.9
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°	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9
2.5°	982.9	981.9	982.9	982.9	982.9	982.9	981.9	981.9
5°	982.9	982.9	982.9	981.9	981.9	981.9	981.9	981.9
7.5°	980.9	980.9	980.9	979.9	979.9	979.9	979.9	979.9
10°	978.9	978.9	977.9	977.9	977.9	977.9	977.9	977.9
12.5°	977.0	977.0	976.0	976.0	976.0	976.0	976.0	975.0
15°	975.0	975.0	974.0	974.0	973.0	973.0	972.0	972.0
17.5°	975.0	974.0	973.0	972.0	972.0	971.0	970.0	970.0
20°	977.9	977.0	976.0	975.0	974.0	973.0	973.0	972.0
22.5°	970.0	969.0	968.0	968.0	967.0	967.0	967.0	966.0
25°	960.0	959.0	959.0	957.0	957.0	956.0	956.0	955.0
27.5°	949.0	948.0	948.0	947.0	946.0	945.0	944.0	944.0
30°	938.0	937.0	937.0	936.0	934.0	934.0	933.0	932.0
32.5°	928.1	928.1	927.1	925.1	923.1	922.1	920.1	920.1
35°	925.1	923.1	921.1	918.1	915.1	913.1	912.1	911.1
37.5°	936.0	933.0	928.1	925.1	921.1	917.1	915.1	913.1
40°	955.0	950.0	945.0	940.0	934.0	929.1	925.1	924.1
42.5°	956.0	953.0	948.0	942.0	935.0	929.1	925.1	924.1
45°	953.0	949.0	943.0	936.0	931.0	924.1	921.1	920.1
47.5°	946.0	942.0	936.0	926.1	919.1	914.1	913.1	913.1
50°	950.0	942.0	932.0	926.1	919.1	911.1	908.1	906.1
52.5°	959.0	951.0	945.0	932.0	917.1	910.1	906.1	903.1
55°	987.9	983.9	966.0	948.0	937.0	928.1	924.1	922.1
57.5°	1006.9	992.9	977.9	966.0	953.0	938.0	928.1	923.1
60°	996.9	981.9	975.0	959.0	932.0	916.1	910.1	907.1
62.5°	975.0	975.0	956.0	931.0	921.1	907.1	896.1	892.1
65°	974.0	961.0	942.0	933.0	909.1	888.1	877.2	875.2
67.5°	932.0	914.1	909.1	889.1	869.2	850.2	842.2	838.2
70°	868.2	862.2	847.2	834.2	816.3	796.3	785.4	781.4
72.5°	787.3	777.4	770.4	759.4	742.4	717.5	708.5	703.5
75°	677.6	672.6	672.6	660.6	644.6	629.7	628.7	626.7
77.5°	544.9	546.9	551.8	538.9	543.9	535.9	528.9	523.9
80°	414.1	423.1	424.1	427.1	430.1	419.1	414.1	408.1
82.5°	294.4	299.4	305.4	306.4	308.4	300.4	296.4	290.4
85°	173.6	176.6	181.6	181.6	181.6	174.6	172.6	167.6
87.5°	50.9	50.9	53.9	50.9	50.9	50.9	45.9	48.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)