

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: P197610

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197610
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-C2-LED-E1-MQ-MS/DIM
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4653.6 lumens
Efficiency: N/A
Efficacy: 136.9 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): 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



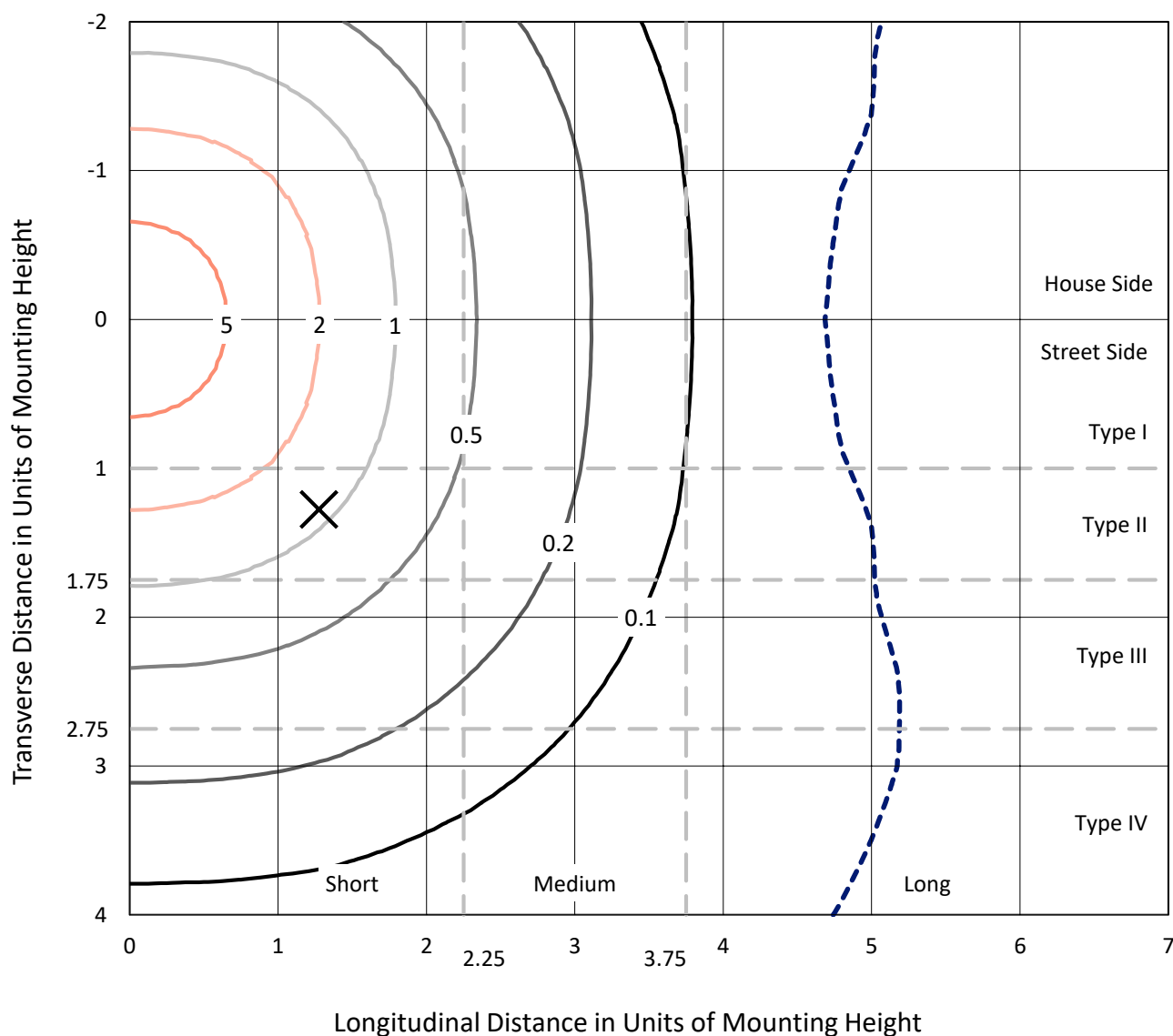
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

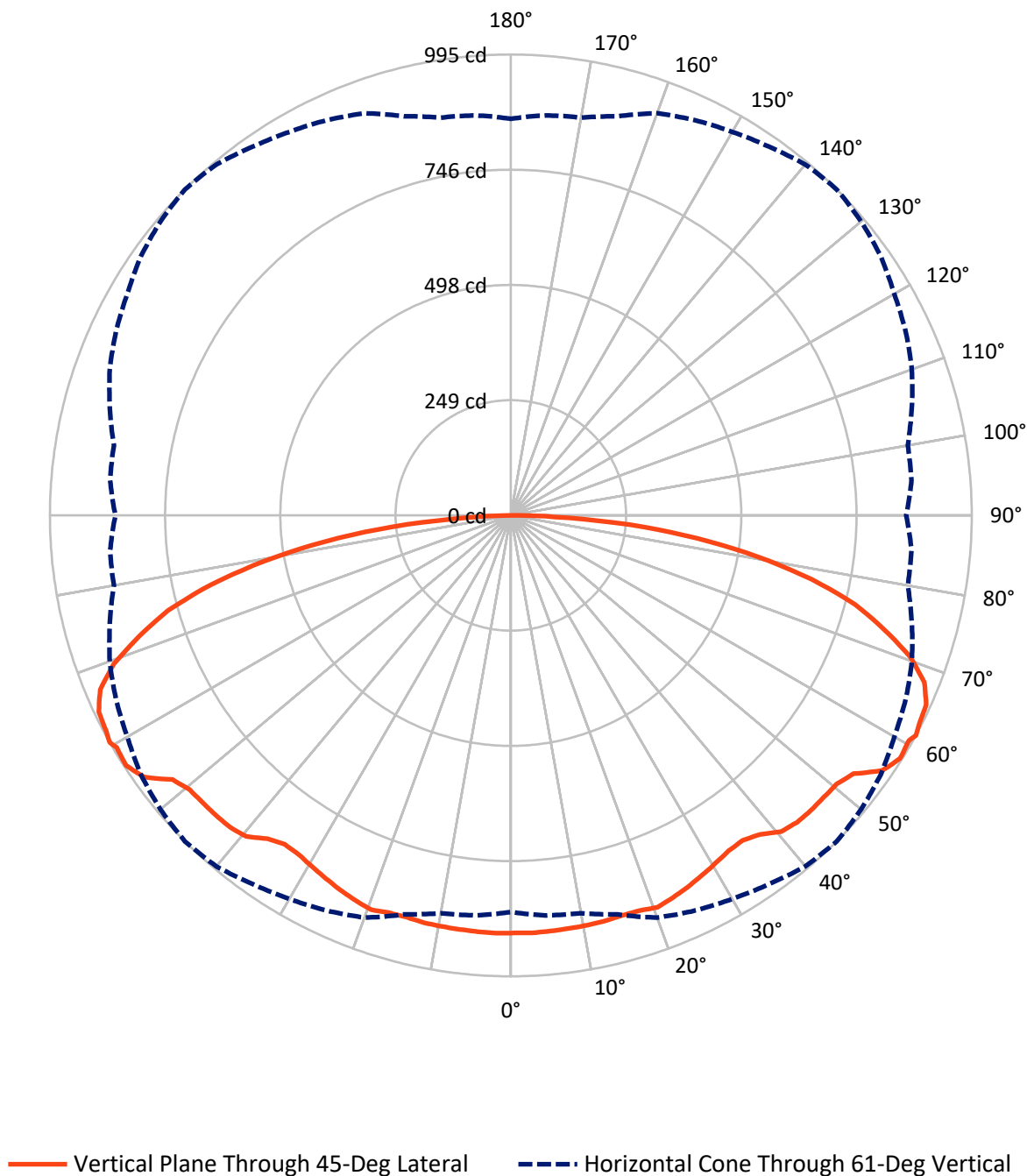


Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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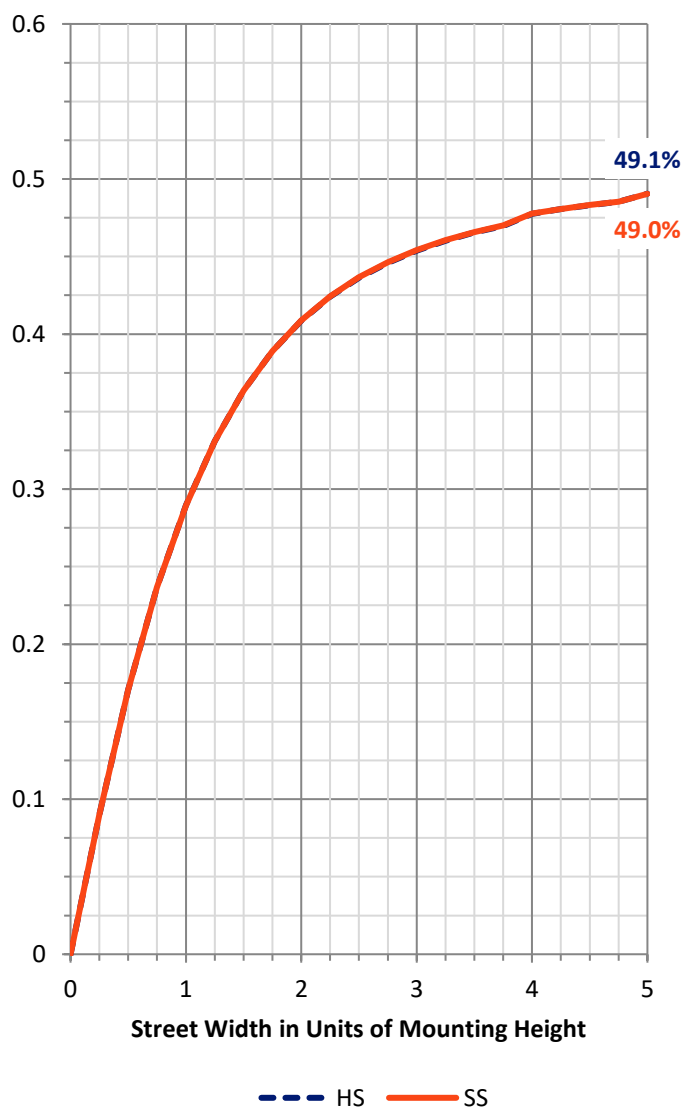
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2326.8	0.0	2326.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2326.8	0.0	2326.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	4653.6	0.0	4653.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	1.8
10°-20°	254.3	5.5
20°-30°	409.2	8.8
30°-40°	542.0	11.6
40°-50°	684.5	14.7
50°-60°	820.1	17.6
60°-70°	896.8	19.3
70°-80°	717.9	15.4
80°-90°	242.9	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°	4653.6	100.0
0°-180°	4653.6	100.0

Coefficient of Utilization



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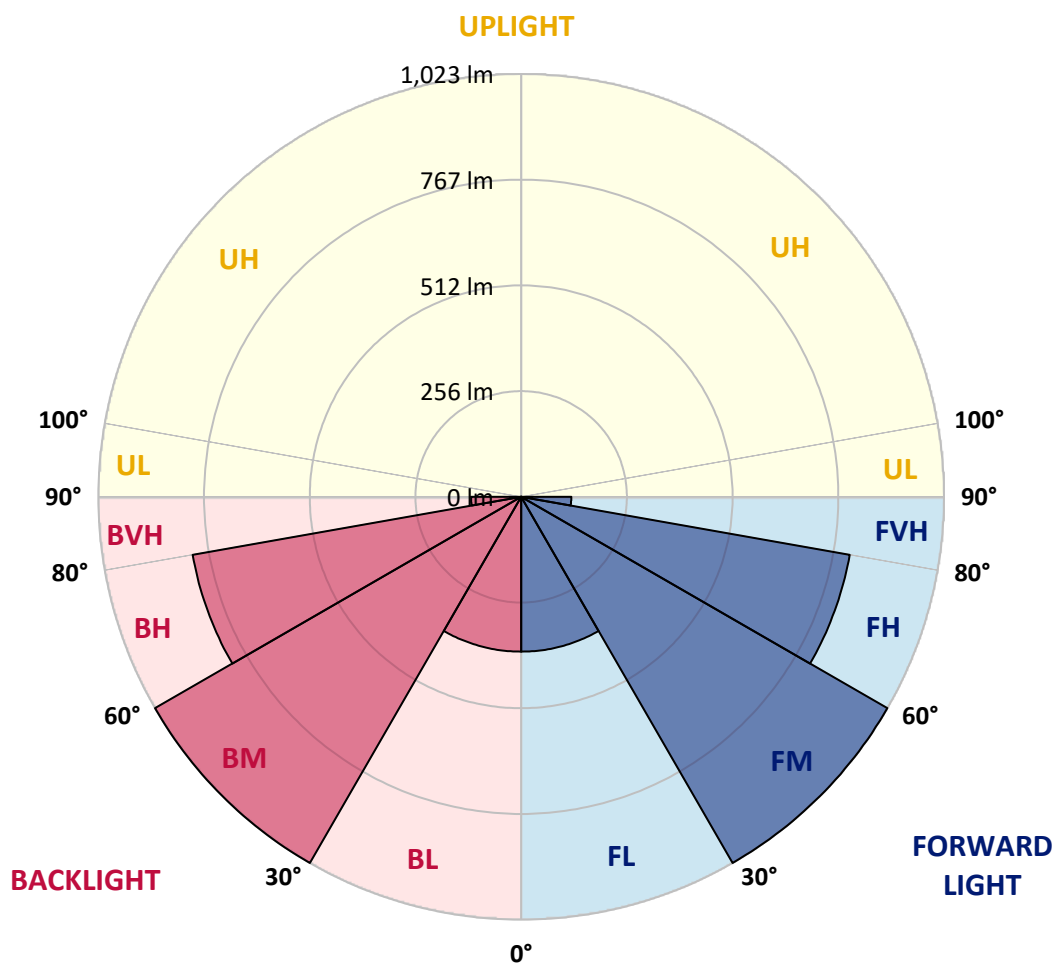
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	374.7	8.1			
FM	(30°-60°)	1023.3	22.0			
FH	(60°-80°)	807.3	17.3			G1/1800
FVH	(80°-90°)	121.4	2.6			G2/225
BL	(0°-30°)	374.7	8.1	B1/500		
BM	(30°-60°)	1023.3	22.0	B2/2500		
BH	(60°-80°)	807.3	17.3	B2/1000		G1/1800
BVH	(80°-90°)	121.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	901.6	901.6	901.6	901.6	901.6	901.6	901.6	901.6	901.6	901.6	901.6
2.5°	902.5	901.6	902.5	902.5	902.5	902.5	902.5	902.5	902.5	902.5	902.5
5°	901.6	901.6	901.6	901.6	901.6	901.6	901.6	901.6	901.6	901.6	901.6
7.5°	900.7	900.7	900.7	900.7	900.7	900.7	900.7	900.7	901.6	900.7	901.6
10°	899.1	899.1	899.1	899.1	899.9	899.9	899.9	899.9	899.9	899.9	899.9
12.5°	897.3	897.3	897.3	897.3	898.2	898.2	898.2	898.2	899.1	899.1	898.2
15°	895.5	894.7	894.7	895.5	895.5	896.4	896.4	896.4	897.3	896.4	896.4
17.5°	893.8	892.9	893.8	894.7	894.7	895.5	896.4	896.4	897.3	897.3	897.3
20°	896.4	895.5	896.4	897.3	898.2	899.9	900.7	901.6	902.5	903.3	903.3
22.5°	891.3	890.4	891.3	891.3	892.1	892.9	894.7	895.5	896.4	896.4	896.4
25°	883.5	883.5	884.2	884.2	885.1	886.0	886.9	887.7	887.7	888.6	887.7
27.5°	874.8	874.8	875.6	875.6	877.3	877.3	878.2	879.1	879.9	879.9	879.9
30°	864.3	864.3	865.2	866.1	867.8	868.6	869.5	870.4	871.3	871.3	871.3
32.5°	854.8	853.9	854.8	856.5	859.2	860.8	862.6	863.5	863.5	863.5	864.3
35°	847.0	847.9	849.6	851.4	854.8	856.5	858.3	860.8	861.7	861.7	861.7
37.5°	848.7	849.6	852.2	855.7	860.0	865.2	868.6	872.1	874.8	873.9	873.0
40°	860.0	861.7	866.1	871.3	878.2	885.1	890.4	894.7	897.3	898.2	897.3
42.5°	861.7	863.5	867.0	874.8	882.6	890.4	897.3	901.6	905.1	906.0	905.1
45°	860.8	860.8	866.1	874.8	882.6	890.4	899.1	905.1	908.5	908.5	908.5
47.5°	854.8	857.4	860.8	869.5	879.9	887.7	896.4	902.5	906.8	909.4	906.8
50°	854.8	854.8	860.8	867.0	876.4	890.4	902.5	908.5	912.9	912.0	912.9
52.5°	853.0	858.3	861.7	870.4	887.7	901.6	911.1	919.8	925.9	926.7	925.0
55°	868.6	869.5	877.3	893.8	910.3	925.9	943.2	956.3	966.6	972.7	964.1
57.5°	880.8	876.4	892.1	906.0	925.0	948.4	974.4	984.8	992.6	990.9	993.5
60°	864.3	870.4	881.7	896.4	926.7	950.1	964.1	975.3	984.8	987.5	984.0
61°	856.5	867.0	872.1	892.1	924.2	941.5	956.3	971.9	989.2	995.3	987.5
62.5°	843.5	860.0	858.3	890.4	910.3	930.2	957.9	976.2	988.4	990.0	988.4
65°	844.4	841.8	861.7	885.1	905.1	940.6	964.1	975.3	982.2	985.7	984.0
67.5°	816.7	808.0	832.3	848.7	882.6	910.3	932.8	949.3	959.7	963.2	958.8
70°	752.5	758.6	775.9	801.1	828.8	862.6	883.5	905.1	913.8	914.6	914.6
72.5°	690.9	694.4	711.8	735.2	767.2	796.7	817.5	834.9	842.7	843.5	845.2
75°	609.5	612.9	632.9	654.5	686.6	711.8	726.5	747.3	758.6	768.1	760.3
77.5°	514.9	521.0	536.7	560.1	589.5	603.4	629.4	653.7	661.5	664.1	661.5
80°	408.3	416.1	430.0	461.2	474.2	496.7	521.9	532.3	539.2	541.0	541.8
82.5°	293.9	300.0	314.7	336.3	351.1	369.3	386.6	399.7	407.5	405.8	404.9
85°	173.4	175.1	190.7	205.5	216.7	228.0	241.9	251.4	253.2	256.6	255.7
87.5°	52.1	52.8	59.9	67.7	72.8	78.0	86.7	98.0	100.6	93.6	94.5
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°	901.6	901.6	901.6	901.6	901.6	901.6	901.6	901.6
2.5°	902.5	902.5	902.5	902.5	902.5	902.5	901.6	902.5
5°	901.6	901.6	901.6	901.6	901.6	901.6	901.6	901.6
7.5°	901.6	900.7	900.7	900.7	900.7	900.7	900.7	900.7
10°	899.9	899.9	899.9	899.9	899.1	899.1	899.1	899.1
12.5°	898.2	898.2	898.2	898.2	897.3	897.3	897.3	897.3
15°	896.4	896.4	896.4	896.4	895.5	895.5	895.5	895.5
17.5°	897.3	896.4	895.5	895.5	894.7	893.8	893.8	893.8
20°	902.5	901.6	899.9	898.2	897.3	896.4	896.4	896.4
22.5°	895.5	894.7	892.9	892.1	892.1	891.3	890.4	890.4
25°	887.7	886.0	886.0	885.1	885.1	883.5	883.5	882.6
27.5°	879.1	878.2	877.3	876.4	876.4	875.6	874.8	873.9
30°	871.3	869.5	867.8	867.0	866.1	865.2	865.2	865.2
32.5°	863.5	861.7	860.8	858.3	856.5	855.7	854.8	854.8
35°	860.8	858.3	856.5	853.9	851.4	849.6	848.7	847.0
37.5°	871.3	867.8	865.2	860.8	854.8	852.2	849.6	848.7
40°	893.8	890.4	885.1	878.2	871.3	866.1	861.7	860.0
42.5°	901.6	897.3	890.4	883.5	874.8	867.0	863.5	861.7
45°	904.2	899.9	890.4	881.7	873.9	867.0	861.7	860.0
47.5°	901.6	895.5	886.9	879.9	868.6	860.0	856.5	853.9
50°	907.7	902.5	891.3	875.6	866.1	860.8	854.8	853.9
52.5°	919.8	910.3	899.9	888.6	870.4	860.0	856.5	852.2
55°	956.3	943.2	925.0	906.8	895.5	879.1	868.6	868.6
57.5°	984.0	973.5	950.1	925.9	905.1	892.9	877.3	878.2
60°	976.2	962.3	951.0	926.7	897.3	880.8	874.8	863.5
61°	975.3	956.3	940.6	921.6	896.4	870.4	868.6	853.9
62.5°	977.0	959.7	930.2	910.3	891.3	857.4	856.5	842.7
65°	975.3	958.8	944.1	906.8	880.8	867.0	837.4	848.7
67.5°	948.4	933.7	906.8	886.0	846.1	828.8	812.3	812.3
70°	906.0	884.2	858.3	832.3	805.4	775.9	761.2	752.5
72.5°	834.9	816.7	795.8	768.1	735.2	708.3	694.4	688.4
75°	745.6	725.6	707.4	686.6	651.9	629.4	614.7	610.3
77.5°	651.9	634.6	602.5	582.6	559.2	533.2	520.2	514.9
80°	532.3	522.7	500.2	468.1	456.8	424.8	416.1	408.3
82.5°	399.7	389.3	368.4	345.9	332.1	313.8	298.2	296.5
85°	251.4	244.5	231.4	215.0	197.7	187.3	173.4	176.8
87.5°	93.6	89.3	81.5	71.1	63.3	56.3	49.4	52.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)