

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: P197689

Luminaire Tested: **TT-C4-LED-E1-MQ-CG-MS/DIM-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115363)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-MQ-CG-MS/DIM-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4851.5 lumens
Efficiency: N/A
Efficacy: 83.6 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): 58
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



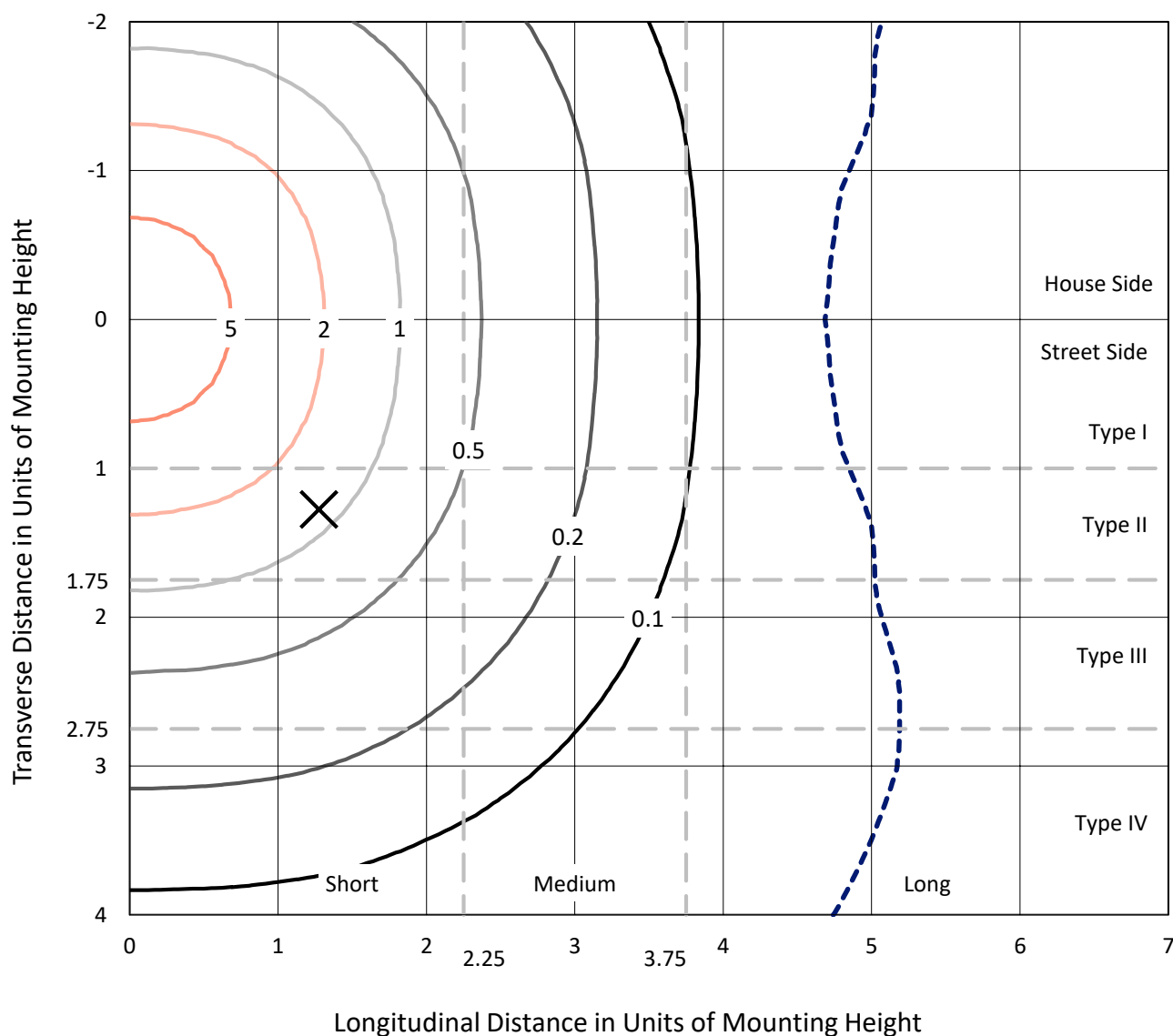
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

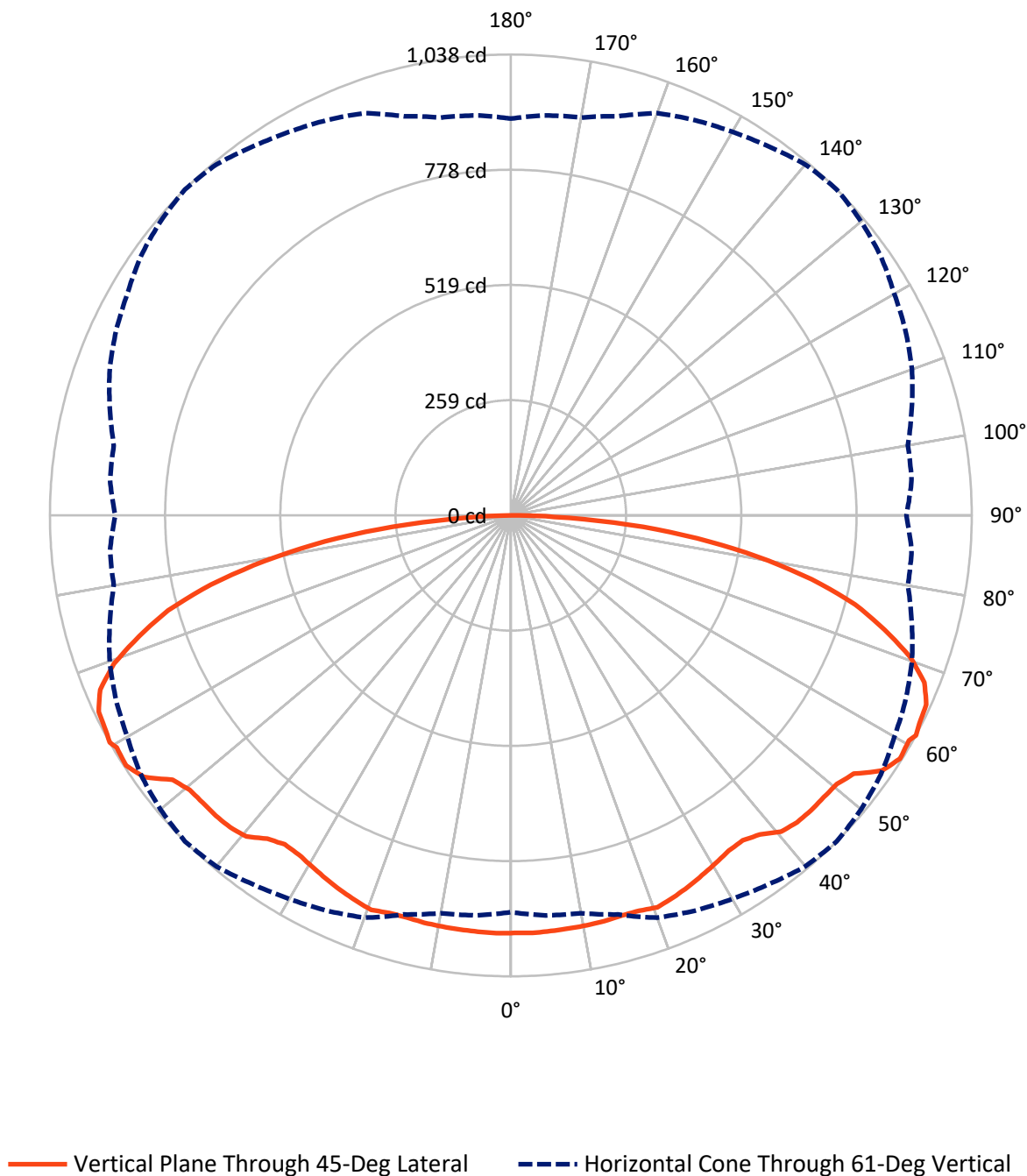


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2425.8	0.0	2425.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2425.8	0.0	2425.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	4851.5	0.0	4851.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.8
10°-20°	265.1	5.5
20°-30°	426.6	8.8
30°-40°	565.1	11.6
40°-50°	713.6	14.7
50°-60°	855.0	17.6
60°-70°	934.9	19.3
70°-80°	748.4	15.4
80°-90°	253.2	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°	4851.5	100.0
0°-180°	4851.5	100.0

Coefficient of Utilization



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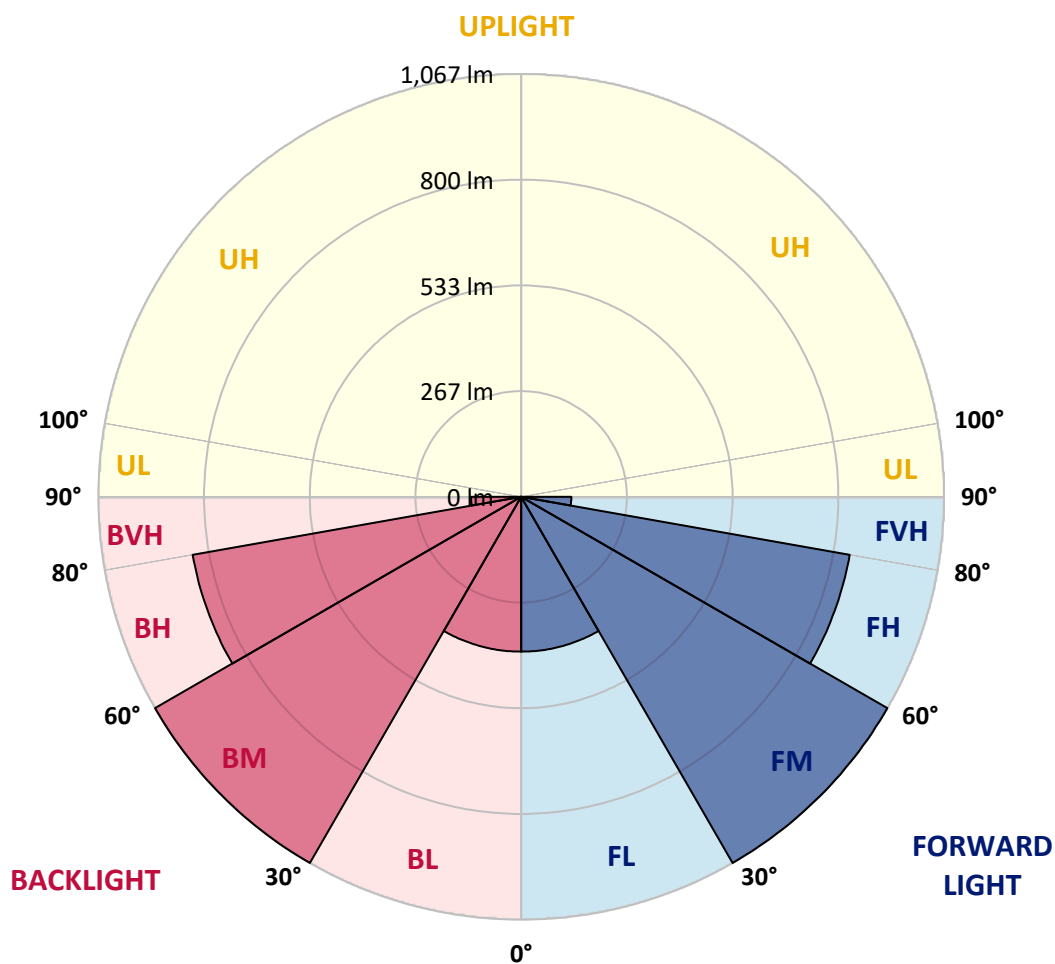
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	390.7	8.1			
FM	(30°-60°)	1066.8	22.0			
FH	(60°-80°)	841.7	17.3			G1/1800
FVH	(80°-90°)	126.6	2.6			G2/225
BL	(0°-30°)	390.7	8.1	B1/500		
BM	(30°-60°)	1066.8	22.0	B2/2500		
BH	(60°-80°)	841.7	17.3	B2/1000		G1/1800
BVH	(80°-90°)	126.6	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°	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9
2.5°	940.9	939.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9	940.9
5°	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9
7.5°	939.0	939.0	939.0	939.0	939.0	939.0	939.0	939.0	939.9	939.0	939.9
10°	937.2	937.2	937.2	937.2	938.2	938.2	938.2	938.2	938.2	938.2	938.2
12.5°	935.5	935.5	935.5	935.5	936.3	936.3	936.3	936.3	937.2	937.2	936.3
15°	933.6	932.8	932.8	933.6	933.6	934.5	934.5	934.5	935.5	934.5	934.5
17.5°	931.8	930.9	931.8	932.8	932.8	933.6	934.5	934.5	935.5	935.5	935.5
20°	934.5	933.6	934.5	935.5	936.3	938.2	939.0	939.9	940.9	941.8	941.8
22.5°	929.1	928.2	929.1	929.1	930.0	930.9	932.8	933.6	934.5	934.5	934.5
25°	921.0	921.0	921.9	921.9	922.8	923.7	924.6	925.5	925.5	926.4	925.5
27.5°	911.9	911.9	912.9	912.9	914.6	914.6	915.6	916.5	917.3	917.3	917.3
30°	901.1	901.1	902.0	902.9	904.7	905.6	906.5	907.4	908.3	908.3	908.3
32.5°	891.2	890.3	891.2	893.0	895.7	897.4	899.3	900.2	900.2	900.2	901.1
35°	883.0	883.9	885.7	887.6	891.2	893.0	894.7	897.4	898.4	898.4	898.4
37.5°	884.8	885.7	888.5	892.0	896.6	902.0	905.6	909.2	911.9	911.0	910.2
40°	896.6	898.4	902.9	908.3	915.6	922.8	928.2	932.8	935.5	936.3	935.5
42.5°	898.4	900.2	903.8	911.9	920.0	928.2	935.5	939.9	943.6	944.5	943.6
45°	897.4	897.4	902.9	911.9	920.0	928.2	937.2	943.6	947.2	947.2	947.2
47.5°	891.2	893.9	897.4	906.5	917.3	925.5	934.5	940.9	945.4	948.1	945.4
50°	891.2	891.2	897.4	903.8	913.7	928.2	940.9	947.2	951.7	950.8	951.7
52.5°	889.3	894.7	898.4	907.4	925.5	939.9	949.9	958.9	965.2	966.2	964.3
55°	905.6	906.5	914.6	931.8	949.0	965.2	983.4	996.9	1007.7	1014.1	1005.0
57.5°	918.3	913.7	930.0	944.5	964.3	988.8	1015.9	1026.7	1034.8	1033.0	1035.8
60°	901.1	907.4	919.2	934.5	966.2	990.6	1005.0	1016.8	1026.7	1029.4	1025.9
61°	893.0	903.8	909.2	930.0	963.5	981.5	996.9	1013.2	1031.3	1037.5	1029.4
62.5°	879.4	896.6	894.7	928.2	949.0	969.8	998.7	1017.6	1030.3	1032.1	1030.3
65°	880.3	877.6	898.4	922.8	943.6	980.7	1005.0	1016.8	1024.0	1027.6	1025.9
67.5°	851.4	842.3	867.7	884.8	920.0	949.0	972.5	989.6	1000.6	1004.1	999.6
70°	784.5	790.8	808.9	835.2	864.0	899.3	921.0	943.6	952.6	953.5	953.5
72.5°	720.3	723.9	742.1	766.4	799.9	830.6	852.2	870.4	878.5	879.4	881.2
75°	635.4	638.9	659.8	682.4	715.8	742.1	757.4	779.0	790.8	800.8	792.7
77.5°	536.9	543.1	559.5	583.9	614.6	629.1	656.1	681.4	689.6	692.3	689.6
80°	425.7	433.8	448.3	480.9	494.4	517.9	544.1	554.9	562.2	564.0	564.9
82.5°	306.4	312.8	328.1	350.7	366.1	385.0	403.1	416.7	424.8	422.9	422.1
85°	180.8	182.6	198.8	214.2	226.0	237.7	252.1	262.1	263.9	267.6	266.6
87.5°	54.3	55.1	62.4	70.5	75.9	81.3	90.4	102.2	104.9	97.6	98.5
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°	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9
2.5°	940.9	940.9	940.9	940.9	940.9	940.9	939.9	940.9
5°	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9
7.5°	939.9	939.0	939.0	939.0	939.0	939.0	939.0	939.0
10°	938.2	938.2	938.2	938.2	937.2	937.2	937.2	937.2
12.5°	936.3	936.3	936.3	936.3	935.5	935.5	935.5	935.5
15°	934.5	934.5	934.5	934.5	933.6	933.6	933.6	933.6
17.5°	935.5	934.5	933.6	933.6	932.8	931.8	931.8	931.8
20°	940.9	939.9	938.2	936.3	935.5	934.5	934.5	934.5
22.5°	933.6	932.8	930.9	930.0	930.0	929.1	928.2	928.2
25°	925.5	923.7	923.7	922.8	922.8	921.0	921.0	920.0
27.5°	916.5	915.6	914.6	913.7	913.7	912.9	911.9	911.0
30°	908.3	906.5	904.7	903.8	902.9	902.0	902.0	902.0
32.5°	900.2	898.4	897.4	894.7	893.0	892.0	891.2	891.2
35°	897.4	894.7	893.0	890.3	887.6	885.7	884.8	883.0
37.5°	908.3	904.7	902.0	897.4	891.2	888.5	885.7	884.8
40°	931.8	928.2	922.8	915.6	908.3	902.9	898.4	896.6
42.5°	939.9	935.5	928.2	921.0	911.9	903.8	900.2	898.4
45°	942.6	938.2	928.2	919.2	911.0	903.8	898.4	896.6
47.5°	939.9	933.6	924.6	917.3	905.6	896.6	893.0	890.3
50°	946.3	940.9	929.1	912.9	902.9	897.4	891.2	890.3
52.5°	958.9	949.0	938.2	926.4	907.4	896.6	893.0	888.5
55°	996.9	983.4	964.3	945.4	933.6	916.5	905.6	905.6
57.5°	1025.9	1014.9	990.6	965.2	943.6	930.9	914.6	915.6
60°	1017.6	1003.3	991.5	966.2	935.5	918.3	911.9	900.2
61°	1016.8	996.9	980.7	960.8	934.5	907.4	905.6	890.3
62.5°	1018.6	1000.6	969.8	949.0	929.1	893.9	893.0	878.5
65°	1016.8	999.6	984.2	945.4	918.3	903.8	873.1	884.8
67.5°	988.8	973.4	945.4	923.7	882.1	864.0	846.8	846.8
70°	944.5	921.9	894.7	867.7	839.6	808.9	793.5	784.5
72.5°	870.4	851.4	829.6	800.8	766.4	738.4	723.9	717.6
75°	777.3	756.5	737.5	715.8	679.7	656.1	640.8	636.2
77.5°	679.7	661.5	628.1	607.4	582.9	555.8	542.3	536.9
80°	554.9	545.0	521.5	488.0	476.3	442.8	433.8	425.7
82.5°	416.7	405.8	384.1	360.7	346.2	327.1	310.9	309.1
85°	262.1	254.9	241.3	224.1	206.1	195.2	180.8	184.3
87.5°	97.6	93.1	85.0	74.2	65.9	58.7	51.6	54.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)