

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: P197682

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197682
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-C2-LED-E1-MQ-CG-MS/DIM
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4130.7 lumens
Efficiency: N/A
Efficacy: 121.5 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

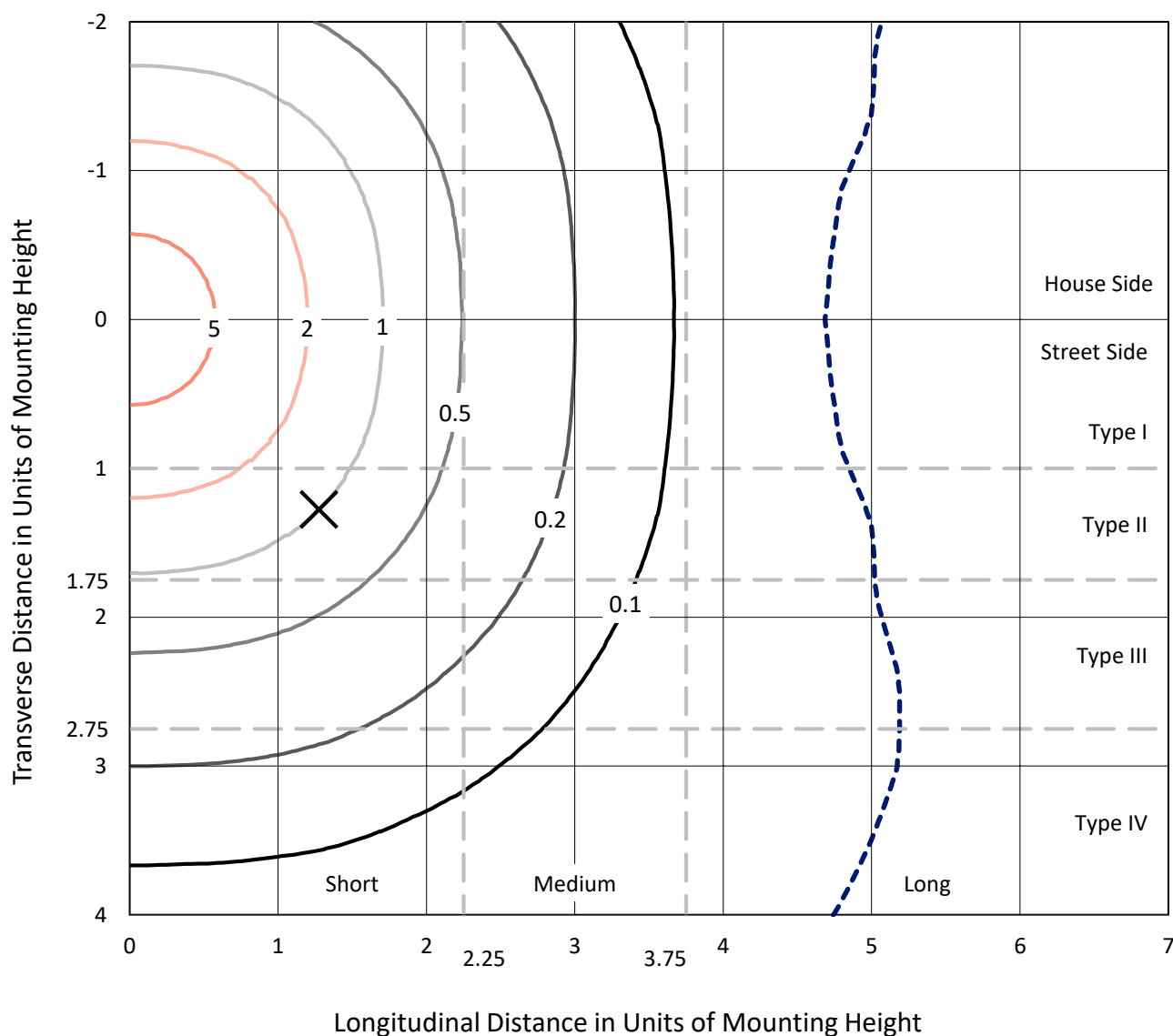


REPORT NUMBER: P197682

CATALOG NUMBER: TT-C2-LED-E1-MQ-CG-MS/DIM

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

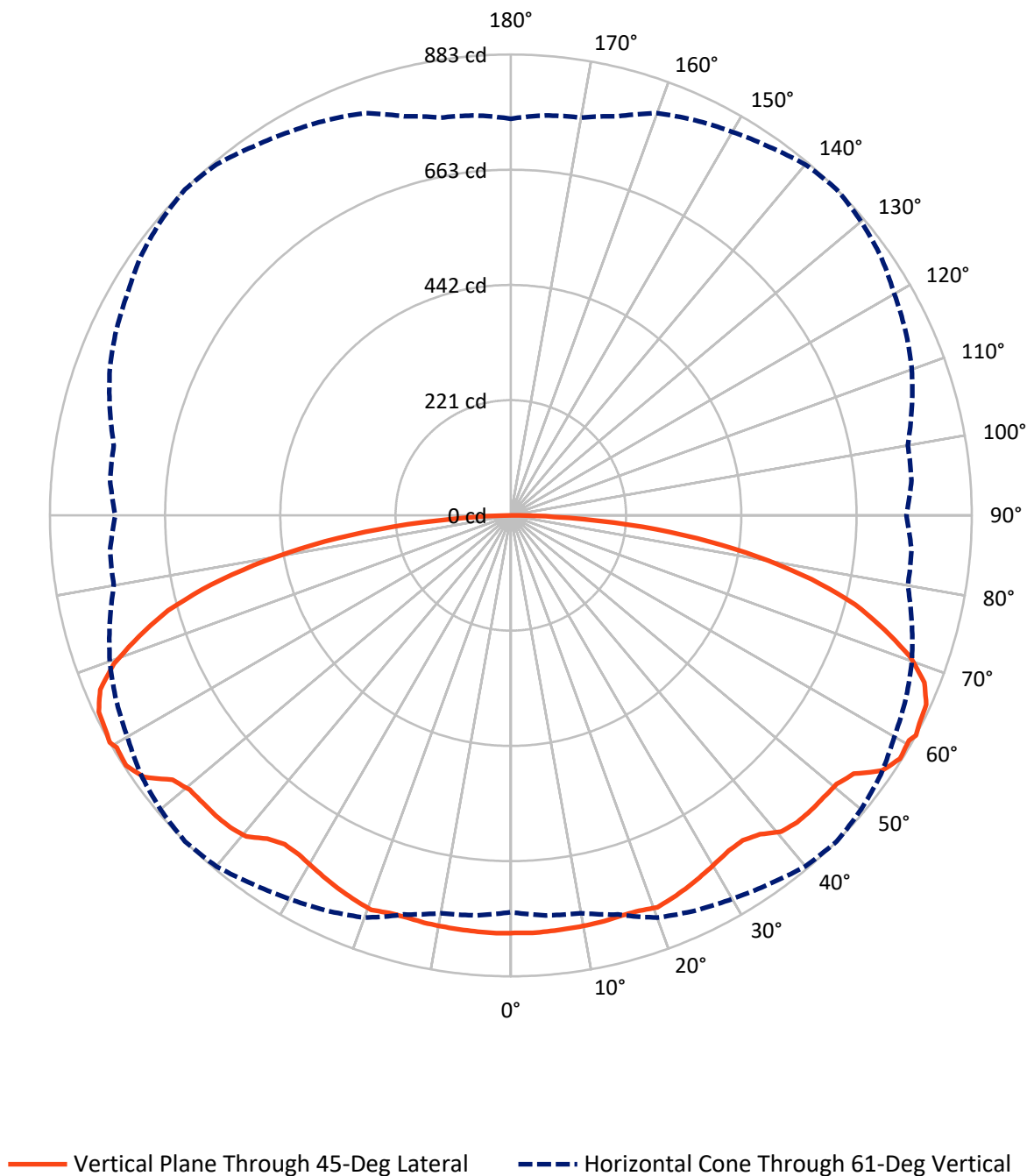


Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197682

CATALOG NUMBER: TT-C2-LED-E1-MQ-CG-MS/DIM

Luminous Intensity Polar Plot



REPORT NUMBER: P197682

CATALOG NUMBER: TT-C2-LED-E1-MQ-CG-MS/DIM

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2065.3	0.0	2065.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2065.3	0.0	2065.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	4130.7	0.0	4130.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	1.8
10°-20°	225.7	5.5
20°-30°	363.2	8.8
30°-40°	481.1	11.6
40°-50°	607.6	14.7
50°-60°	728.0	17.6
60°-70°	796.0	19.3
70°-80°	637.2	15.4
80°-90°	215.6	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°	4130.7	100.0
0°-180°	4130.7	100.0

Coefficient of Utilization



REPORT NUMBER: P197682

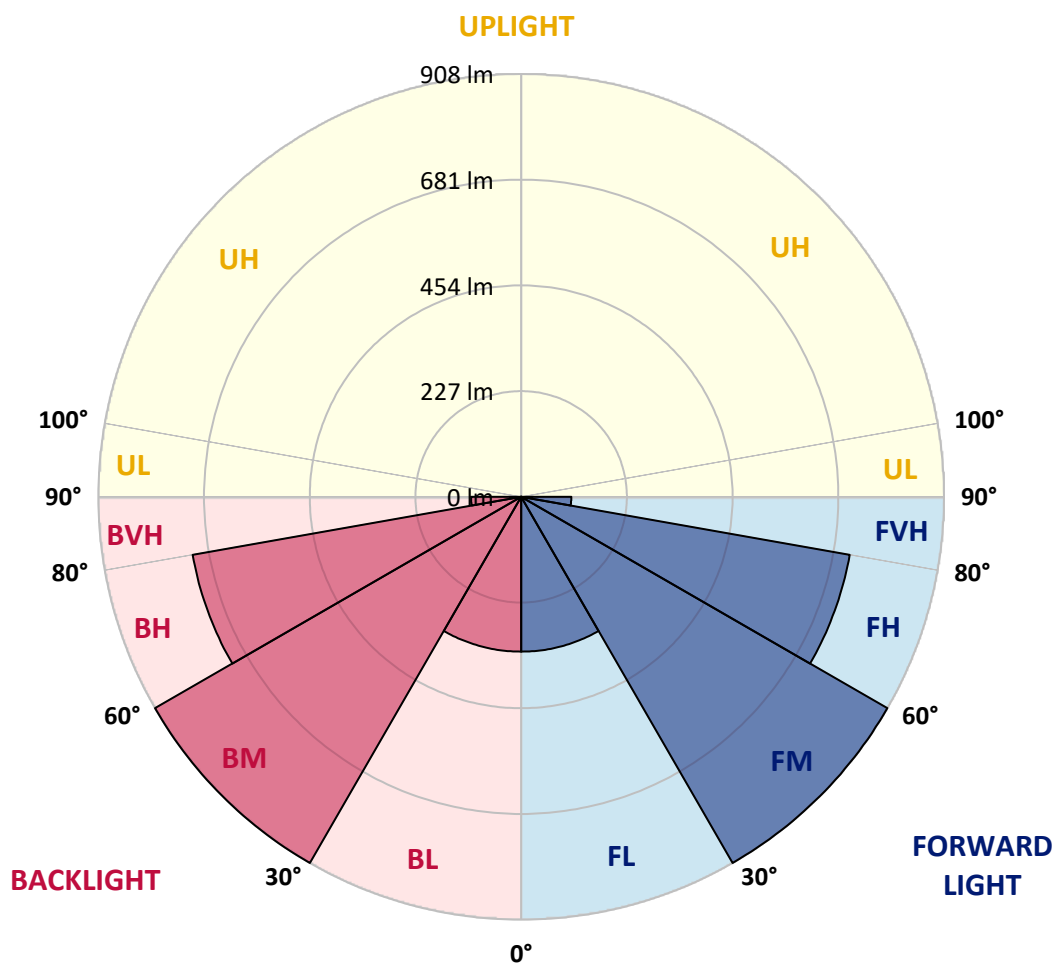
CATALOG NUMBER: TT-C2-LED-E1-MQ-CG-MS/DIM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	332.6	8.1			
FM	(30°-60°)	908.3	22.0			
FH	(60°-80°)	716.6	17.3			G1/1800
FVH	(80°-90°)	107.8	2.6			G2/225
BL	(0°-30°)	332.6	8.1	B1/500		
BM	(30°-60°)	908.3	22.0	B1/1000		
BH	(60°-80°)	716.6	17.3	B2/1000		G1/1800
BVH	(80°-90°)	107.8	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



REPORT NUMBER: P197682

CATALOG NUMBER: TT-C2-LED-E1-MQ-CG-MS/DIM

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	800.3	800.3	800.3	800.3	800.3	800.3	800.3	800.3	800.3	800.3	800.3
2.5°	801.1	800.3	801.1	801.1	801.1	801.1	801.1	801.1	801.1	801.1	801.1
5°	800.3	800.3	800.3	800.3	800.3	800.3	800.3	800.3	800.3	800.3	800.3
7.5°	799.5	799.5	799.5	799.5	799.5	799.5	799.5	799.5	800.3	799.5	800.3
10°	798.0	798.0	798.0	798.0	798.8	798.8	798.8	798.8	798.8	798.8	798.8
12.5°	796.5	796.5	796.5	796.5	797.2	797.2	797.2	797.2	798.0	798.0	797.2
15°	794.9	794.2	794.2	794.9	794.9	795.7	795.7	795.7	796.5	795.7	795.7
17.5°	793.4	792.6	793.4	794.2	794.2	794.9	795.7	795.7	796.5	796.5	796.5
20°	795.7	794.9	795.7	796.5	797.2	798.8	799.5	800.3	801.1	801.9	801.9
22.5°	791.1	790.3	791.1	791.1	791.9	792.6	794.2	794.9	795.7	795.7	795.7
25°	784.1	784.1	784.9	784.9	785.6	786.4	787.2	788.0	788.0	788.8	788.0
27.5°	776.4	776.4	777.2	777.2	778.7	778.7	779.5	780.3	781.0	781.0	781.0
30°	767.2	767.2	768.0	768.7	770.3	771.0	771.8	772.6	773.3	773.3	773.3
32.5°	758.8	758.0	758.8	760.3	762.6	764.1	765.7	766.4	766.4	766.4	767.2
35°	751.8	752.6	754.1	755.7	758.8	760.3	761.8	764.1	764.9	764.9	764.9
37.5°	753.4	754.1	756.5	759.5	763.4	768.0	771.0	774.1	776.4	775.6	774.9
40°	763.4	764.9	768.7	773.3	779.5	785.6	790.3	794.2	796.5	797.2	796.5
42.5°	764.9	766.4	769.5	776.4	783.3	790.3	796.5	800.3	803.4	804.2	803.4
45°	764.1	764.1	768.7	776.4	783.3	790.3	798.0	803.4	806.5	806.5	806.5
47.5°	758.8	761.1	764.1	771.8	781.0	788.0	795.7	801.1	804.9	807.2	804.9
50°	758.8	758.8	764.1	769.5	777.9	790.3	801.1	806.5	810.3	809.5	810.3
52.5°	757.2	761.8	764.9	772.6	788.0	800.3	808.8	816.4	821.8	822.6	821.0
55°	771.0	771.8	778.7	793.4	808.0	821.8	837.3	848.8	858.0	863.4	855.7
57.5°	781.8	777.9	791.9	804.2	821.0	841.9	864.9	874.1	881.1	879.6	881.9
60°	767.2	772.6	782.6	795.7	822.6	843.4	855.7	865.7	874.1	876.5	873.4
61°	760.3	769.5	774.1	791.9	820.3	835.7	848.8	862.6	878.0	883.4	876.5
62.5°	748.8	763.4	761.8	790.3	808.0	825.7	850.3	866.4	877.2	878.8	877.2
65°	749.5	747.2	764.9	785.6	803.4	835.0	855.7	865.7	871.8	874.9	873.4
67.5°	724.9	717.2	738.7	753.4	783.3	808.0	828.0	842.6	851.9	854.9	851.1
70°	668.0	673.3	688.7	711.1	735.6	765.7	784.1	803.4	811.1	811.8	811.8
72.5°	613.3	616.4	631.8	652.5	681.0	707.2	725.6	741.0	748.0	748.8	750.3
75°	541.0	544.0	561.7	581.0	609.5	631.8	644.8	663.3	673.3	681.8	674.9
77.5°	457.1	462.4	476.4	497.1	523.3	535.6	558.6	580.2	587.1	589.4	587.1
80°	362.4	369.3	381.7	409.4	420.9	441.0	463.2	472.5	478.7	480.2	481.0
82.5°	260.9	266.3	279.3	298.6	311.7	327.8	343.2	354.8	361.7	360.1	359.4
85°	153.9	155.4	169.3	182.4	192.4	202.4	214.7	223.2	224.7	227.8	227.0
87.5°	46.2	46.9	53.1	60.0	64.6	69.3	77.0	87.0	89.3	83.1	83.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P197682

CATALOG NUMBER: TT-C2-LED-E1-MQ-CG-MS/DIM

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	800.3	800.3	800.3	800.3	800.3	800.3	800.3	800.3
2.5°	801.1	801.1	801.1	801.1	801.1	801.1	800.3	801.1
5°	800.3	800.3	800.3	800.3	800.3	800.3	800.3	800.3
7.5°	800.3	799.5	799.5	799.5	799.5	799.5	799.5	799.5
10°	798.8	798.8	798.8	798.8	798.0	798.0	798.0	798.0
12.5°	797.2	797.2	797.2	797.2	796.5	796.5	796.5	796.5
15°	795.7	795.7	795.7	795.7	794.9	794.9	794.9	794.9
17.5°	796.5	795.7	794.9	794.9	794.2	793.4	793.4	793.4
20°	801.1	800.3	798.8	797.2	796.5	795.7	795.7	795.7
22.5°	794.9	794.2	792.6	791.9	791.9	791.1	790.3	790.3
25°	788.0	786.4	786.4	785.6	785.6	784.1	784.1	783.3
27.5°	780.3	779.5	778.7	777.9	777.9	777.2	776.4	775.6
30°	773.3	771.8	770.3	769.5	768.7	768.0	768.0	768.0
32.5°	766.4	764.9	764.1	761.8	760.3	759.5	758.8	758.8
35°	764.1	761.8	760.3	758.0	755.7	754.1	753.4	751.8
37.5°	773.3	770.3	768.0	764.1	758.8	756.5	754.1	753.4
40°	793.4	790.3	785.6	779.5	773.3	768.7	764.9	763.4
42.5°	800.3	796.5	790.3	784.1	776.4	769.5	766.4	764.9
45°	802.6	798.8	790.3	782.6	775.6	769.5	764.9	763.4
47.5°	800.3	794.9	787.2	781.0	771.0	763.4	760.3	758.0
50°	805.7	801.1	791.1	777.2	768.7	764.1	758.8	758.0
52.5°	816.4	808.0	798.8	788.8	772.6	763.4	760.3	756.5
55°	848.8	837.3	821.0	804.9	794.9	780.3	771.0	771.0
57.5°	873.4	864.1	843.4	821.8	803.4	792.6	778.7	779.5
60°	866.4	854.2	844.2	822.6	796.5	781.8	776.4	766.4
61°	865.7	848.8	835.0	818.0	795.7	772.6	771.0	758.0
62.5°	867.2	851.9	825.7	808.0	791.1	761.1	760.3	748.0
65°	865.7	851.1	838.0	804.9	781.8	769.5	743.4	753.4
67.5°	841.9	828.7	804.9	786.4	751.1	735.6	721.0	721.0
70°	804.2	784.9	761.8	738.7	714.9	688.7	675.6	668.0
72.5°	741.0	724.9	706.4	681.8	652.5	628.7	616.4	611.0
75°	661.8	644.1	627.9	609.5	578.7	558.6	545.6	541.7
77.5°	578.7	563.3	534.8	517.1	496.3	473.3	461.7	457.1
80°	472.5	464.0	444.0	415.5	405.5	377.0	369.3	362.4
82.5°	354.8	345.5	327.0	307.1	294.8	278.5	264.7	263.2
85°	223.2	217.0	205.5	190.8	175.5	166.2	153.9	157.0
87.5°	83.1	79.3	72.4	63.1	56.1	50.0	43.9	46.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)