

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: P197655

Luminaire Tested: **TT-C1-LED-E1-MQ-CG-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115378)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C1-LED-E1-MQ-CG-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2945.2 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 28
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

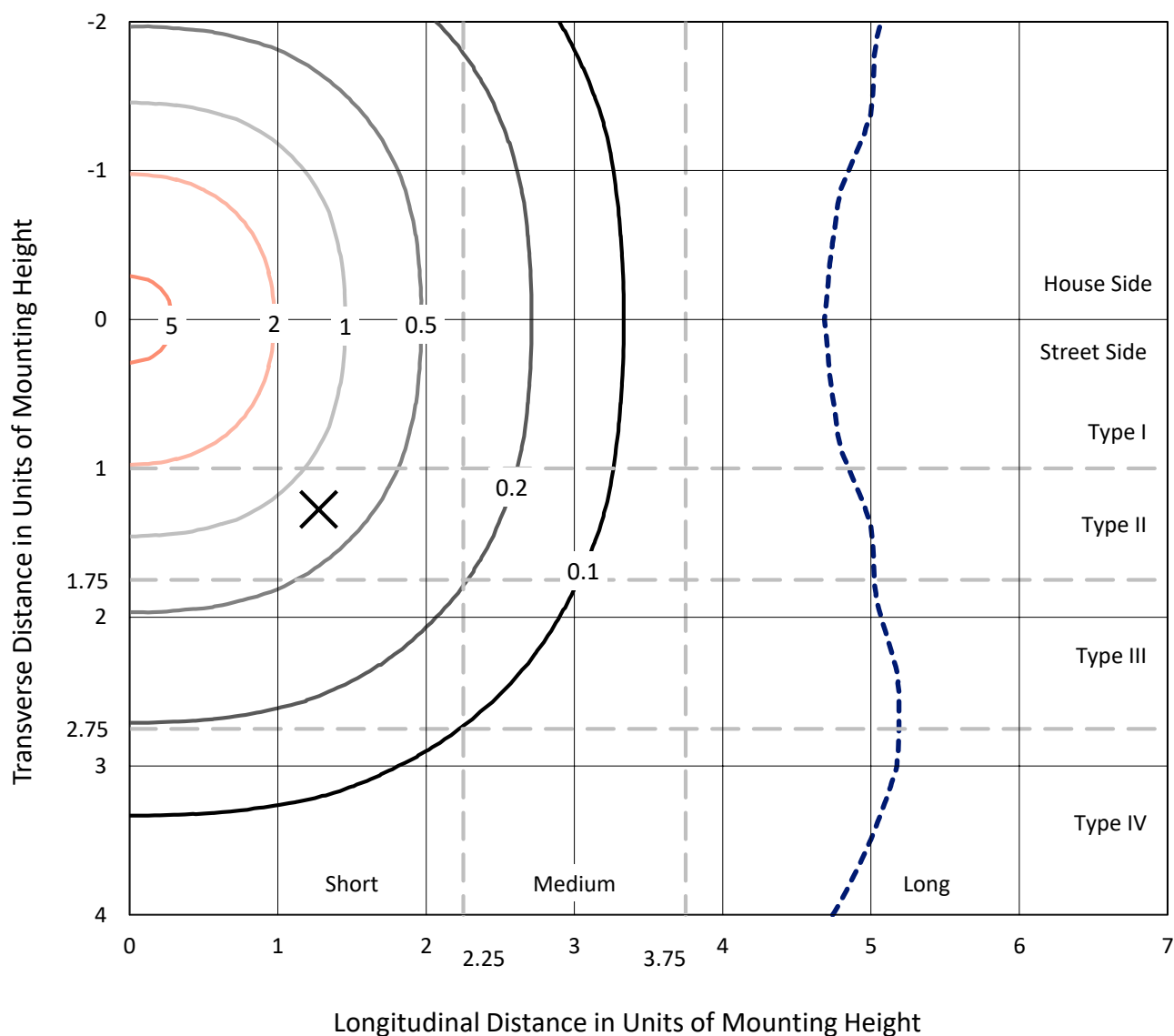


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

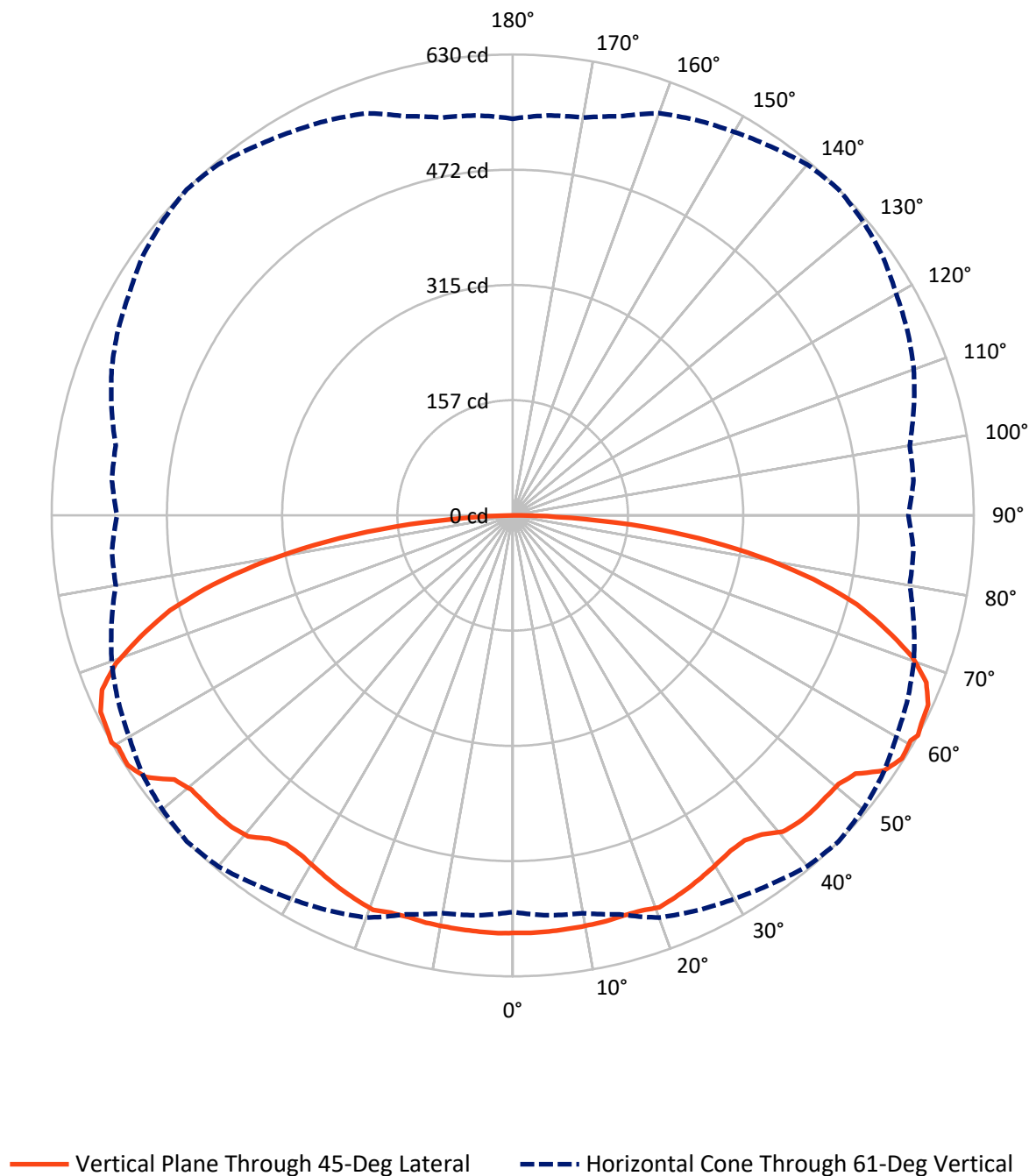


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1472.6	0.0	1472.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1472.6	0.0	1472.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	2945.2	0.0	2945.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	1.8
10°-20°	160.9	5.5
20°-30°	258.9	8.8
30°-40°	343.0	11.6
40°-50°	433.2	14.7
50°-60°	519.0	17.6
60°-70°	567.5	19.3
70°-80°	454.3	15.4
80°-90°	153.7	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°	2945.2	100.0
0°-180°	2945.2	100.0

Coefficient of Utilization



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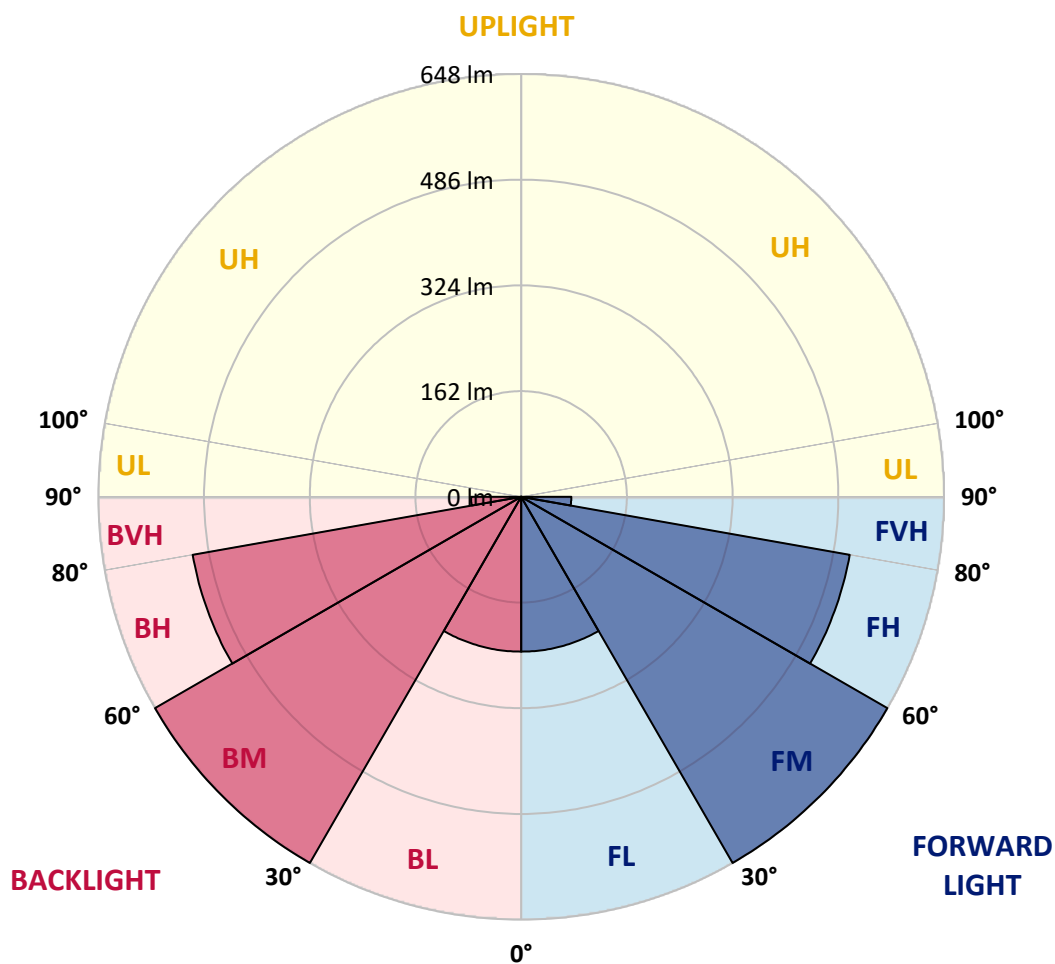
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	237.2	8.1			
FM	(30°-60°)	647.6	22.0			
FH	(60°-80°)	510.9	17.3			G0/660
FVH	(80°-90°)	76.9	2.6			G1/100
BL	(0°-30°)	237.2	8.1	B1/500		
BM	(30°-60°)	647.6	22.0	B1/1000		
BH	(60°-80°)	510.9	17.3	B2/1000		G0/660
BVH	(80°-90°)	76.9	2.6			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°	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.6
2.5°	571.1	570.6	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1
5°	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.6
7.5°	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.6	570.1	570.6
10°	569.0	569.0	569.0	569.0	569.5	569.5	569.5	569.5	569.5	569.5	569.5
12.5°	567.9	567.9	567.9	567.9	568.4	568.4	568.4	568.4	569.0	569.0	568.4
15°	566.8	566.2	566.2	566.8	566.8	567.3	567.3	567.3	567.9	567.3	567.3
17.5°	565.7	565.1	565.7	566.2	566.2	566.8	567.3	567.3	567.9	567.9	567.9
20°	567.3	566.8	567.3	567.9	568.4	569.5	570.1	570.6	571.1	571.7	571.7
22.5°	564.0	563.4	564.0	564.0	564.5	565.1	566.2	566.8	567.3	567.3	567.3
25°	559.1	559.1	559.6	559.6	560.2	560.7	561.3	561.8	561.8	562.4	561.8
27.5°	553.6	553.6	554.2	554.2	555.3	555.3	555.8	556.3	556.9	556.9	556.9
30°	547.0	547.0	547.6	548.1	549.2	549.7	550.3	550.8	551.4	551.4	551.4
32.5°	541.0	540.5	541.0	542.1	543.7	544.8	545.9	546.5	546.5	546.5	547.0
35°	536.0	536.6	537.7	538.8	541.0	542.1	543.2	544.8	545.4	545.4	545.4
37.5°	537.1	537.7	539.4	541.5	544.3	547.6	549.7	552.0	553.6	553.1	552.5
40°	544.3	545.4	548.1	551.4	555.8	560.2	563.4	566.2	567.9	568.4	567.9
42.5°	545.4	546.5	548.6	553.6	558.5	563.4	567.9	570.6	572.8	573.3	572.8
45°	544.8	544.8	548.1	553.6	558.5	563.4	569.0	572.8	575.0	575.0	575.0
47.5°	541.0	542.6	544.8	550.3	556.9	561.8	567.3	571.1	573.9	575.6	573.9
50°	541.0	541.0	544.8	548.6	554.7	563.4	571.1	575.0	577.8	577.2	577.8
52.5°	539.9	543.2	545.4	550.8	561.8	570.6	576.7	582.1	585.9	586.5	585.5
55°	549.7	550.3	555.3	565.7	576.1	585.9	596.9	605.2	611.8	615.6	610.1
57.5°	557.4	554.7	564.5	573.3	585.5	600.3	616.7	623.2	628.2	627.1	628.8
60°	547.0	550.8	558.0	567.3	586.5	601.3	610.1	617.2	623.2	624.9	622.8
61°	542.1	548.6	552.0	564.5	584.9	595.8	605.2	615.1	626.0	629.9	624.9
62.5°	533.8	544.3	543.2	563.4	576.1	588.7	606.3	617.8	625.5	626.6	625.5
65°	534.4	532.8	545.4	560.2	572.8	595.3	610.1	617.2	621.7	623.8	622.8
67.5°	516.9	511.3	526.7	537.1	558.5	576.1	590.4	600.7	607.4	609.5	606.8
70°	476.2	480.1	491.0	507.0	524.5	545.9	559.1	572.8	578.3	578.8	578.8
72.5°	437.3	439.5	450.5	465.3	485.6	504.2	517.4	528.3	533.3	533.8	534.9
75°	385.7	387.9	400.5	414.2	434.6	450.5	459.8	473.0	480.1	486.1	481.2
77.5°	325.9	329.8	339.6	354.5	373.1	381.9	398.4	413.7	418.6	420.3	418.6
80°	258.4	263.4	272.2	291.9	300.1	314.4	330.3	336.9	341.2	342.4	342.9
82.5°	186.0	189.9	199.1	212.8	222.2	233.8	244.7	252.9	257.8	256.8	256.2
85°	109.7	110.8	120.7	130.1	137.2	144.3	153.0	159.1	160.2	162.4	161.8
87.5°	32.9	33.5	37.9	42.8	46.1	49.4	54.9	62.0	63.6	59.3	59.8
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°	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.6
2.5°	571.1	571.1	571.1	571.1	571.1	571.1	570.6	571.1
5°	570.6	570.6	570.6	570.6	570.6	570.6	570.6	570.6
7.5°	570.6	570.1	570.1	570.1	570.1	570.1	570.1	570.1
10°	569.5	569.5	569.5	569.5	569.0	569.0	569.0	569.0
12.5°	568.4	568.4	568.4	568.4	567.9	567.9	567.9	567.9
15°	567.3	567.3	567.3	567.3	566.8	566.8	566.8	566.8
17.5°	567.9	567.3	566.8	566.8	566.2	565.7	565.7	565.7
20°	571.1	570.6	569.5	568.4	567.9	567.3	567.3	567.3
22.5°	566.8	566.2	565.1	564.5	564.5	564.0	563.4	563.4
25°	561.8	560.7	560.7	560.2	560.2	559.1	559.1	558.5
27.5°	556.3	555.8	555.3	554.7	554.7	554.2	553.6	553.1
30°	551.4	550.3	549.2	548.6	548.1	547.6	547.6	547.6
32.5°	546.5	545.4	544.8	543.2	542.1	541.5	541.0	541.0
35°	544.8	543.2	542.1	540.5	538.8	537.7	537.1	536.0
37.5°	551.4	549.2	547.6	544.8	541.0	539.4	537.7	537.1
40°	565.7	563.4	560.2	555.8	551.4	548.1	545.4	544.3
42.5°	570.6	567.9	563.4	559.1	553.6	548.6	546.5	545.4
45°	572.2	569.5	563.4	558.0	553.1	548.6	545.4	544.3
47.5°	570.6	566.8	561.3	556.9	549.7	544.3	542.1	540.5
50°	574.4	571.1	564.0	554.2	548.1	544.8	541.0	540.5
52.5°	582.1	576.1	569.5	562.4	550.8	544.3	542.1	539.4
55°	605.2	596.9	585.5	573.9	566.8	556.3	549.7	549.7
57.5°	622.8	616.1	601.3	585.9	572.8	565.1	555.3	555.8
60°	617.8	609.0	601.9	586.5	567.9	557.4	553.6	546.5
61°	617.2	605.2	595.3	583.2	567.3	550.8	549.7	540.5
62.5°	618.3	607.4	588.7	576.1	564.0	542.6	542.1	533.3
65°	617.2	606.8	597.5	573.9	557.4	548.6	530.0	537.1
67.5°	600.3	590.9	573.9	560.7	535.5	524.5	514.1	514.1
70°	573.3	559.6	543.2	526.7	509.7	491.0	481.7	476.2
72.5°	528.3	516.9	503.7	486.1	465.3	448.3	439.5	435.7
75°	471.9	459.2	447.7	434.6	412.6	398.4	389.0	386.2
77.5°	412.6	401.6	381.3	368.7	353.9	337.4	329.2	325.9
80°	336.9	330.9	316.6	296.3	289.1	268.8	263.4	258.4
82.5°	252.9	246.3	233.2	218.9	210.1	198.6	188.8	187.7
85°	159.1	154.7	146.5	136.1	125.1	118.5	109.7	111.9
87.5°	59.3	56.5	51.6	45.0	40.1	35.6	31.3	32.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)