

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: P197653

Luminaire Tested: **TT-C1-LED-E1-MQ-CG-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197653
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-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2660.8 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B1 - 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



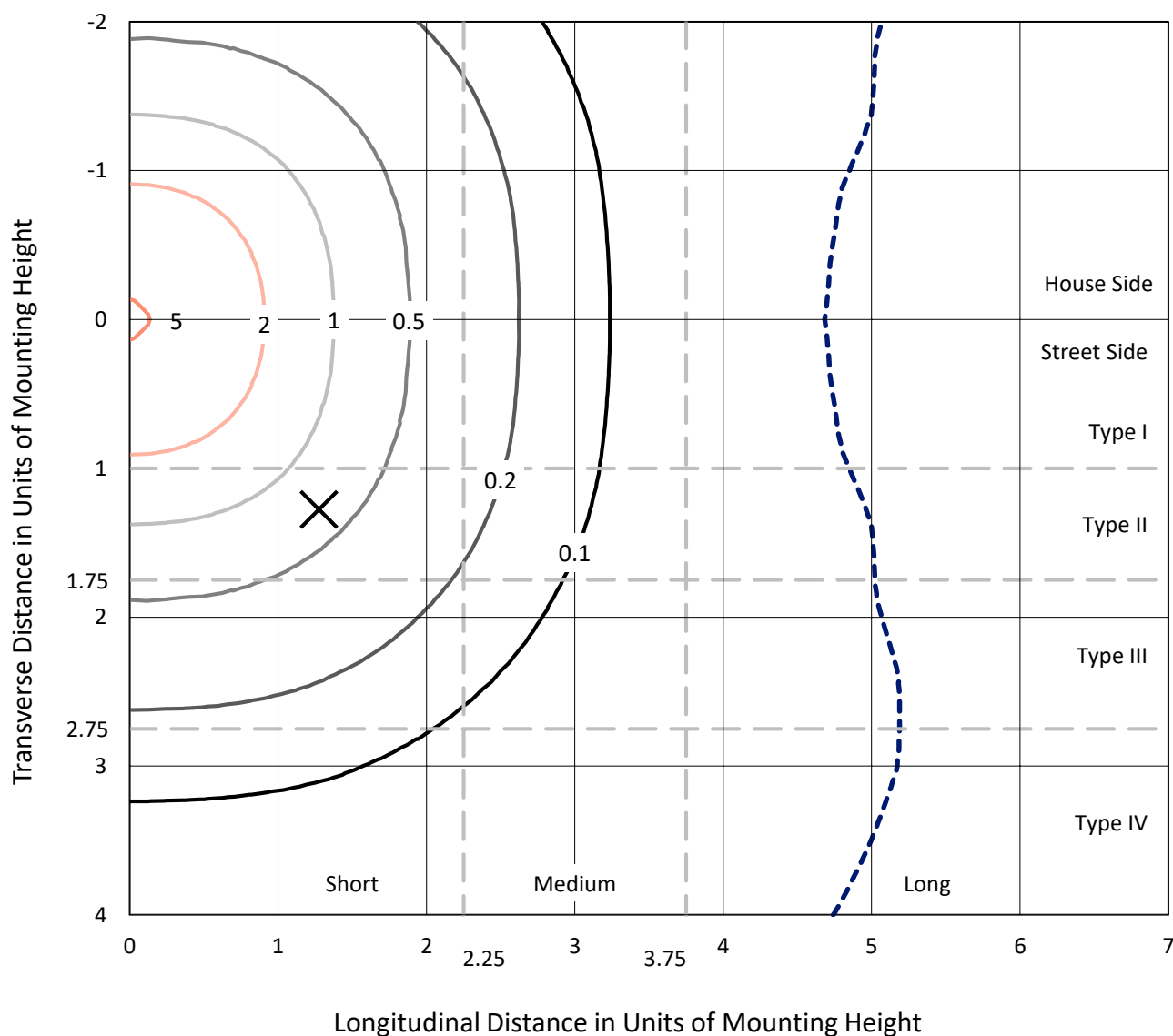
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

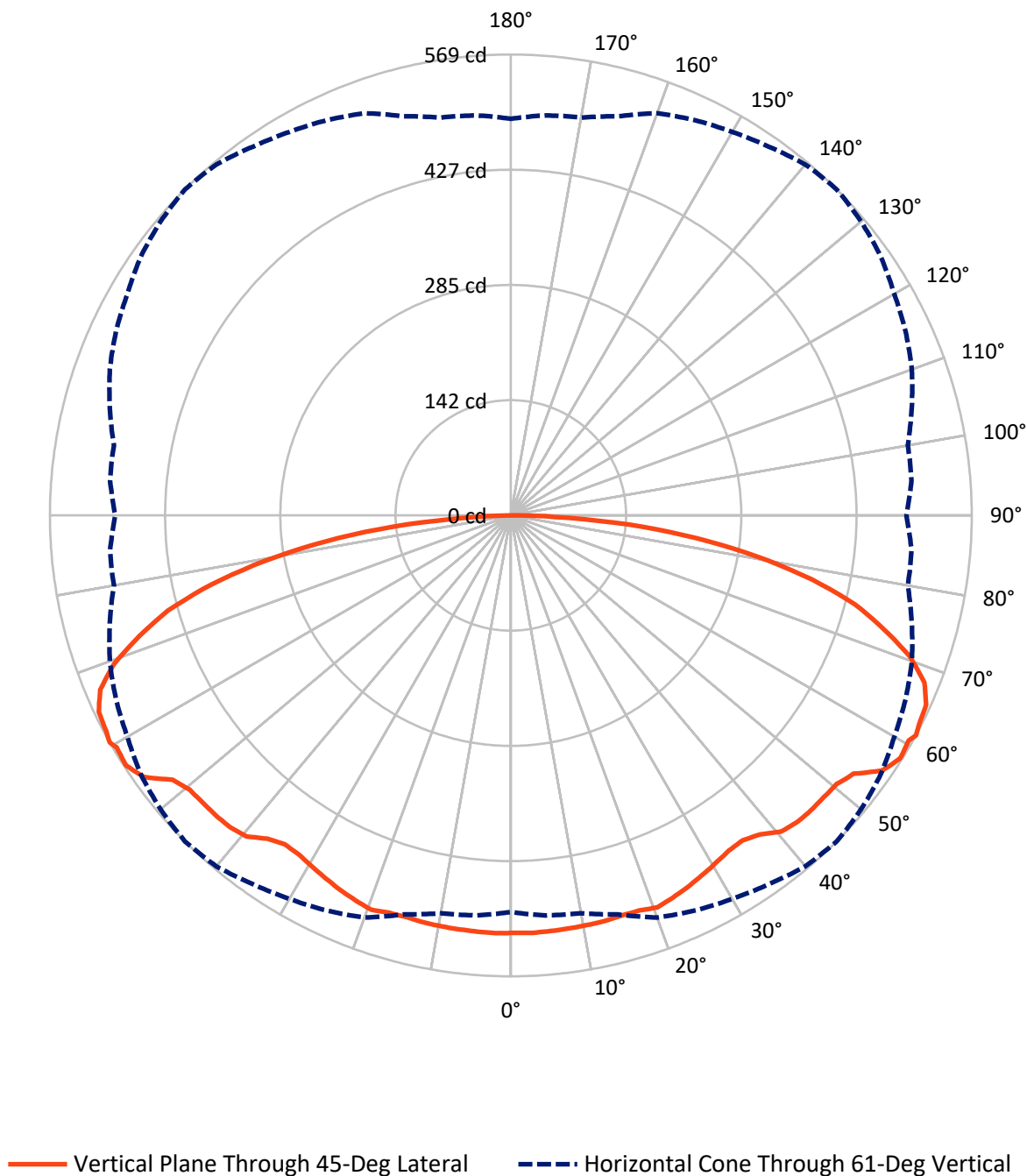


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1330.4	0.0	1330.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1330.4	0.0	1330.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	2660.8	0.0	2660.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	1.8
10°-20°	145.4	5.5
20°-30°	233.9	8.8
30°-40°	309.9	11.6
40°-50°	391.4	14.7
50°-60°	468.9	17.6
60°-70°	512.7	19.3
70°-80°	410.5	15.4
80°-90°	138.9	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°	2660.8	100.0
0°-180°	2660.8	100.0

Coefficient of Utilization



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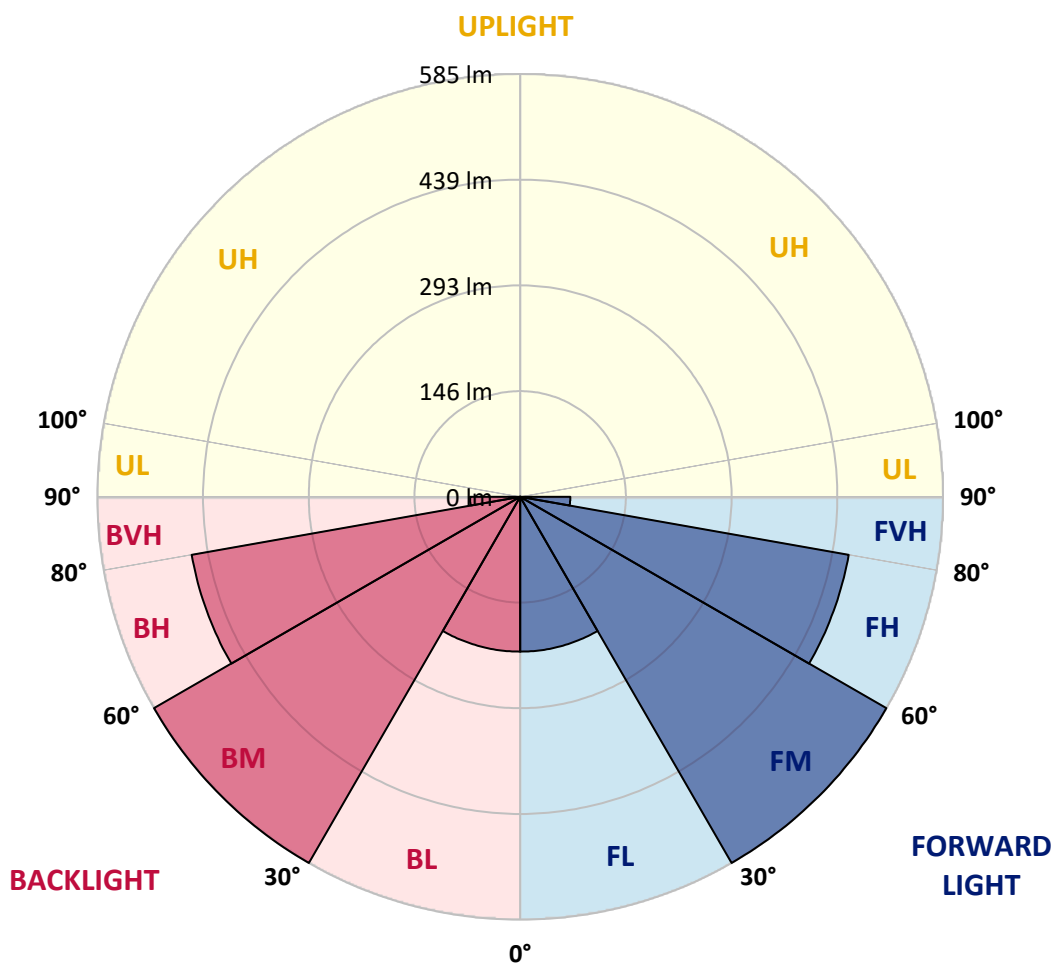
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	214.3	8.1			
FM	(30°-60°)	585.1	22.0			
FH	(60°-80°)	461.6	17.3			G0/660
FVH	(80°-90°)	69.4	2.6			G1/100
BL	(0°-30°)	214.3	8.1	B1/500		
BM	(30°-60°)	585.1	22.0	B1/1000		
BH	(60°-80°)	461.6	17.3	B1/500		G0/660
BVH	(80°-90°)	69.4	2.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5
2.5°	516.0	515.5	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0
5°	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5
7.5°	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.5	515.0	515.5
10°	514.0	514.0	514.0	514.0	514.5	514.5	514.5	514.5	514.5	514.5	514.5
12.5°	513.0	513.0	513.0	513.0	513.5	513.5	513.5	513.5	514.0	514.0	513.5
15°	512.0	511.5	511.5	512.0	512.0	512.5	512.5	512.5	513.0	512.5	512.5
17.5°	511.0	510.5	511.0	511.5	511.5	512.0	512.5	512.5	513.0	513.0	513.0
20°	512.5	512.0	512.5	513.0	513.5	514.5	515.0	515.5	516.0	516.5	516.5
22.5°	509.5	509.0	509.5	509.5	510.0	510.5	511.5	512.0	512.5	512.5	512.5
25°	505.1	505.1	505.6	505.6	506.1	506.6	507.1	507.6	507.6	508.1	507.6
27.5°	500.2	500.2	500.7	500.7	501.7	501.7	502.2	502.6	503.1	503.1	503.1
30°	494.2	494.2	494.7	495.2	496.2	496.7	497.2	497.7	498.2	498.2	498.2
32.5°	488.8	488.3	488.8	489.7	491.2	492.2	493.2	493.7	493.7	493.7	494.2
35°	484.3	484.8	485.8	486.8	488.8	489.7	490.7	492.2	492.7	492.7	492.7
37.5°	485.3	485.8	487.3	489.2	491.7	494.7	496.7	498.7	500.2	499.7	499.2
40°	491.7	492.7	495.2	498.2	502.2	506.1	509.0	511.5	513.0	513.5	513.0
42.5°	492.7	493.7	495.7	500.2	504.6	509.0	513.0	515.5	517.5	518.0	517.5
45°	492.2	492.2	495.2	500.2	504.6	509.0	514.0	517.5	519.5	519.5	519.5
47.5°	488.8	490.2	492.2	497.2	503.1	507.6	512.5	516.0	518.5	520.0	518.5
50°	488.8	488.8	492.2	495.7	501.2	509.0	516.0	519.5	522.0	521.5	522.0
52.5°	487.8	490.7	492.7	497.7	507.6	515.5	521.0	525.9	529.4	529.9	528.9
55°	496.7	497.2	501.7	511.0	520.5	529.4	539.3	546.7	552.7	556.2	551.2
57.5°	503.6	501.2	510.0	518.0	528.9	542.3	557.1	563.1	567.6	566.6	568.1
60°	494.2	497.7	504.1	512.5	529.9	543.2	551.2	557.6	563.1	564.6	562.6
61°	489.7	495.7	498.7	510.0	528.4	538.3	546.7	555.7	565.6	569.1	564.6
62.5°	482.3	491.7	490.7	509.0	520.5	531.9	547.7	558.1	565.1	566.1	565.1
65°	482.8	481.3	492.7	506.1	517.5	537.8	551.2	557.6	561.6	563.6	562.6
67.5°	466.9	461.9	475.8	485.3	504.6	520.5	533.4	542.7	548.7	550.7	548.2
70°	430.2	433.7	443.6	458.0	473.9	493.2	505.1	517.5	522.5	522.9	522.9
72.5°	395.0	397.0	407.0	420.4	438.7	455.5	467.4	477.3	481.8	482.3	483.3
75°	348.4	350.4	361.8	374.2	392.6	407.0	415.4	427.3	433.7	439.2	434.7
77.5°	294.4	297.9	306.8	320.2	337.1	345.0	359.9	373.8	378.2	379.7	378.2
80°	233.4	237.9	245.9	263.7	271.2	284.0	298.4	304.4	308.3	309.3	309.8
82.5°	168.0	171.5	179.9	192.3	200.7	211.2	221.1	228.5	232.9	232.0	231.5
85°	99.1	100.1	109.1	117.5	123.9	130.4	138.3	143.8	144.8	146.7	146.2
87.5°	29.8	30.3	34.2	38.6	41.6	44.6	49.6	56.0	57.5	53.5	54.0
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°	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5
2.5°	516.0	516.0	516.0	516.0	516.0	516.0	515.5	516.0
5°	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5
7.5°	515.5	515.0	515.0	515.0	515.0	515.0	515.0	515.0
10°	514.5	514.5	514.5	514.5	514.0	514.0	514.0	514.0
12.5°	513.5	513.5	513.5	513.5	513.0	513.0	513.0	513.0
15°	512.5	512.5	512.5	512.5	512.0	512.0	512.0	512.0
17.5°	513.0	512.5	512.0	512.0	511.5	511.0	511.0	511.0
20°	516.0	515.5	514.5	513.5	513.0	512.5	512.5	512.5
22.5°	512.0	511.5	510.5	510.0	510.0	509.5	509.0	509.0
25°	507.6	506.6	506.6	506.1	506.1	505.1	505.1	504.6
27.5°	502.6	502.2	501.7	501.2	501.2	500.7	500.2	499.7
30°	498.2	497.2	496.2	495.7	495.2	494.7	494.7	494.7
32.5°	493.7	492.7	492.2	490.7	489.7	489.2	488.8	488.8
35°	492.2	490.7	489.7	488.3	486.8	485.8	485.3	484.3
37.5°	498.2	496.2	494.7	492.2	488.8	487.3	485.8	485.3
40°	511.0	509.0	506.1	502.2	498.2	495.2	492.7	491.7
42.5°	515.5	513.0	509.0	505.1	500.2	495.7	493.7	492.7
45°	517.0	514.5	509.0	504.1	499.7	495.7	492.7	491.7
47.5°	515.5	512.0	507.1	503.1	496.7	491.7	489.7	488.3
50°	519.0	516.0	509.5	500.7	495.2	492.2	488.8	488.3
52.5°	525.9	520.5	514.5	508.1	497.7	491.7	489.7	487.3
55°	546.7	539.3	528.9	518.5	512.0	502.6	496.7	496.7
57.5°	562.6	556.6	543.2	529.4	517.5	510.5	501.7	502.2
60°	558.1	550.2	543.7	529.9	513.0	503.6	500.2	493.7
61°	557.6	546.7	537.8	526.9	512.5	497.7	496.7	488.3
62.5°	558.6	548.7	531.9	520.5	509.5	490.2	489.7	481.8
65°	557.6	548.2	539.8	518.5	503.6	495.7	478.8	485.3
67.5°	542.3	533.9	518.5	506.6	483.8	473.9	464.4	464.4
70°	518.0	505.6	490.7	475.8	460.5	443.6	435.2	430.2
72.5°	477.3	466.9	455.1	439.2	420.4	405.0	397.0	393.6
75°	426.3	414.9	404.5	392.6	372.8	359.9	351.4	348.9
77.5°	372.8	362.8	344.5	333.1	319.7	304.9	297.4	294.4
80°	304.4	298.9	286.0	267.7	261.2	242.9	237.9	233.4
82.5°	228.5	222.6	210.7	197.8	189.9	179.4	170.5	169.5
85°	143.8	139.8	132.3	122.9	113.0	107.1	99.1	101.1
87.5°	53.5	51.0	46.6	40.6	36.2	32.2	28.3	29.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)