

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: P197654

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197654
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
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3108.8 lumens
Efficiency: N/A
Efficacy: 111.0 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



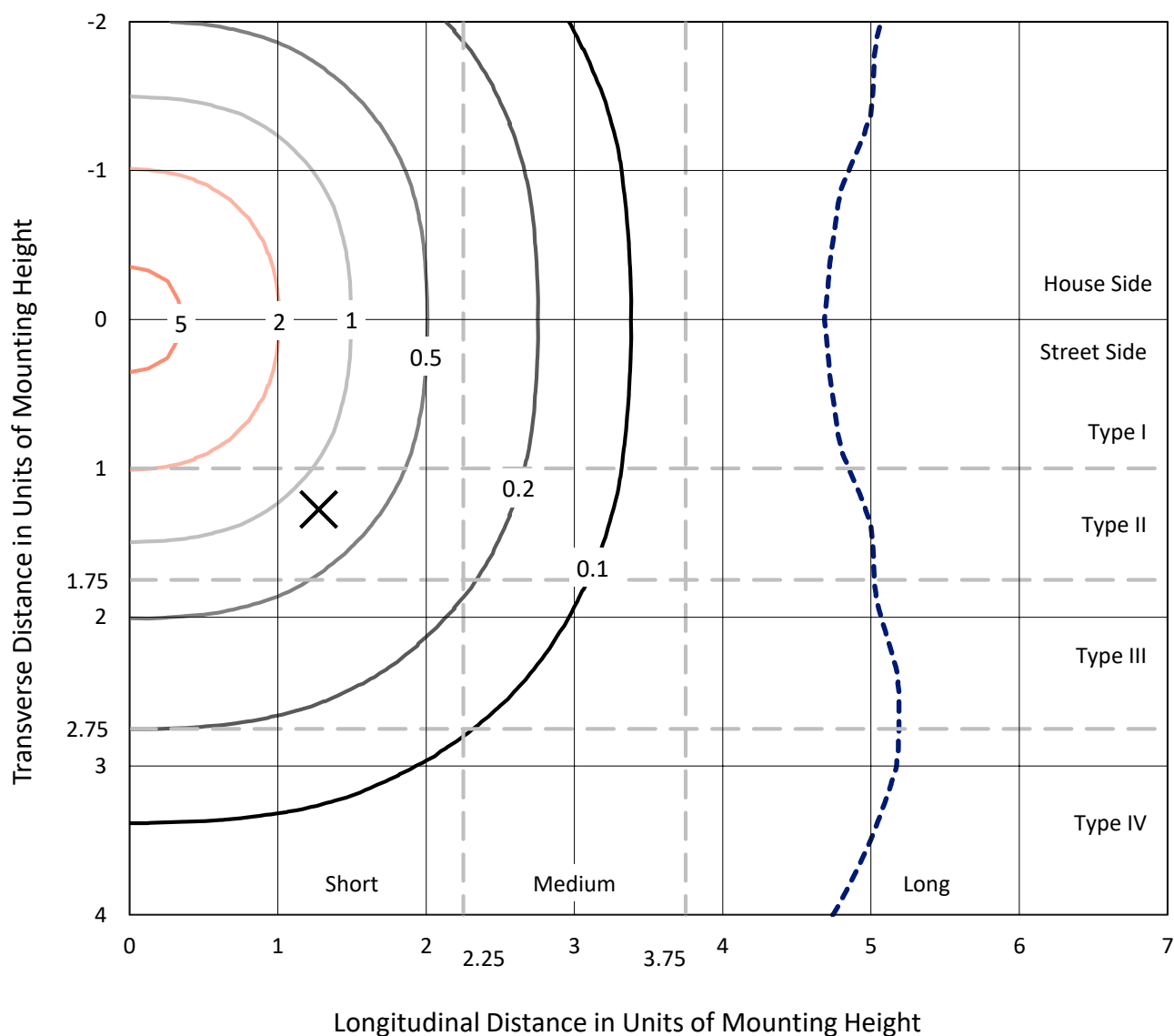
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

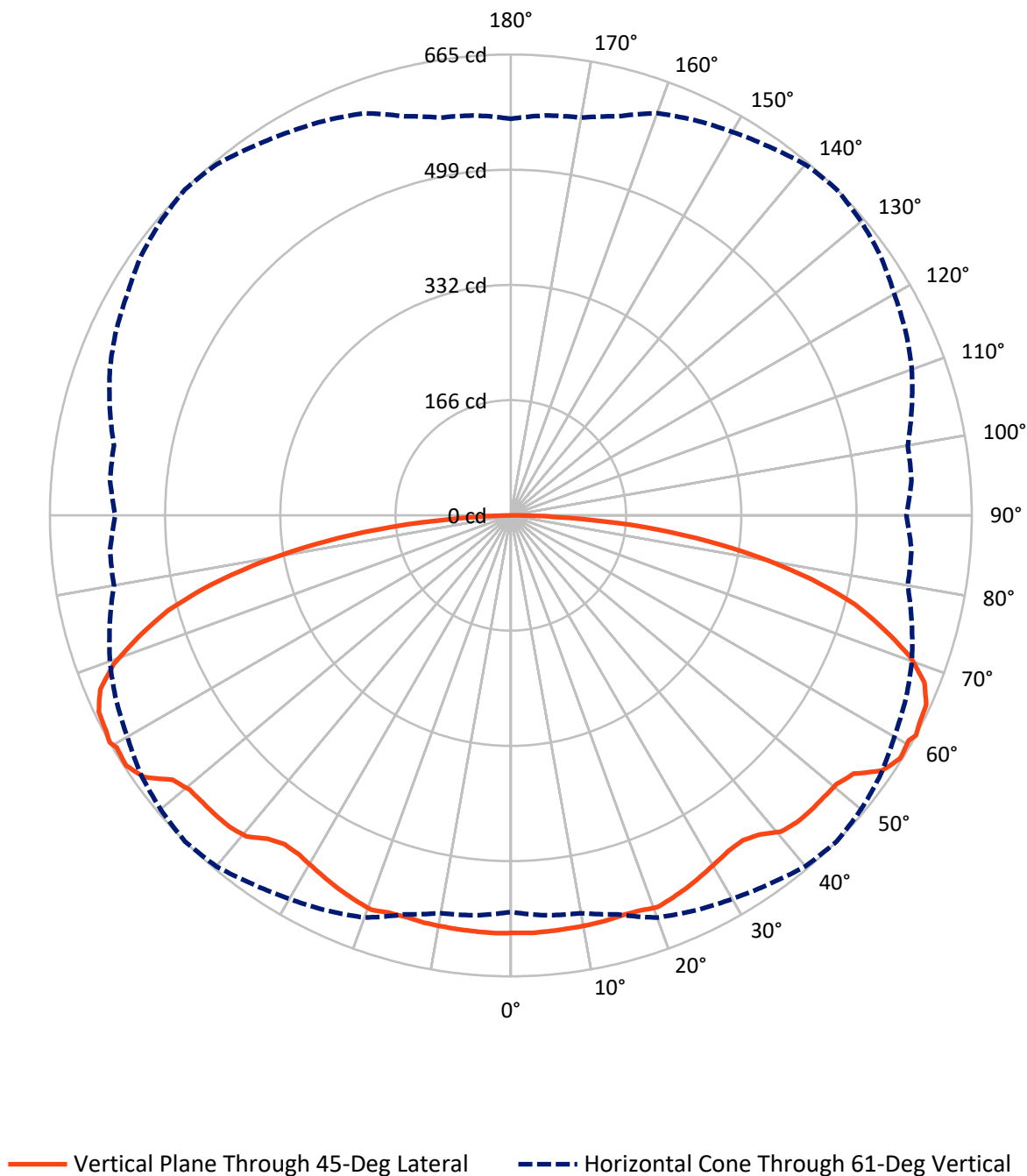


Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1554.4	0.0	1554.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1554.4	0.0	1554.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	3108.8	0.0	3108.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	1.8
10°-20°	169.9	5.5
20°-30°	273.3	8.8
30°-40°	362.1	11.6
40°-50°	457.3	14.7
50°-60°	547.9	17.6
60°-70°	599.1	19.3
70°-80°	479.6	15.4
80°-90°	162.2	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°	3108.8	100.0
0°-180°	3108.8	100.0

Coefficient of Utilization



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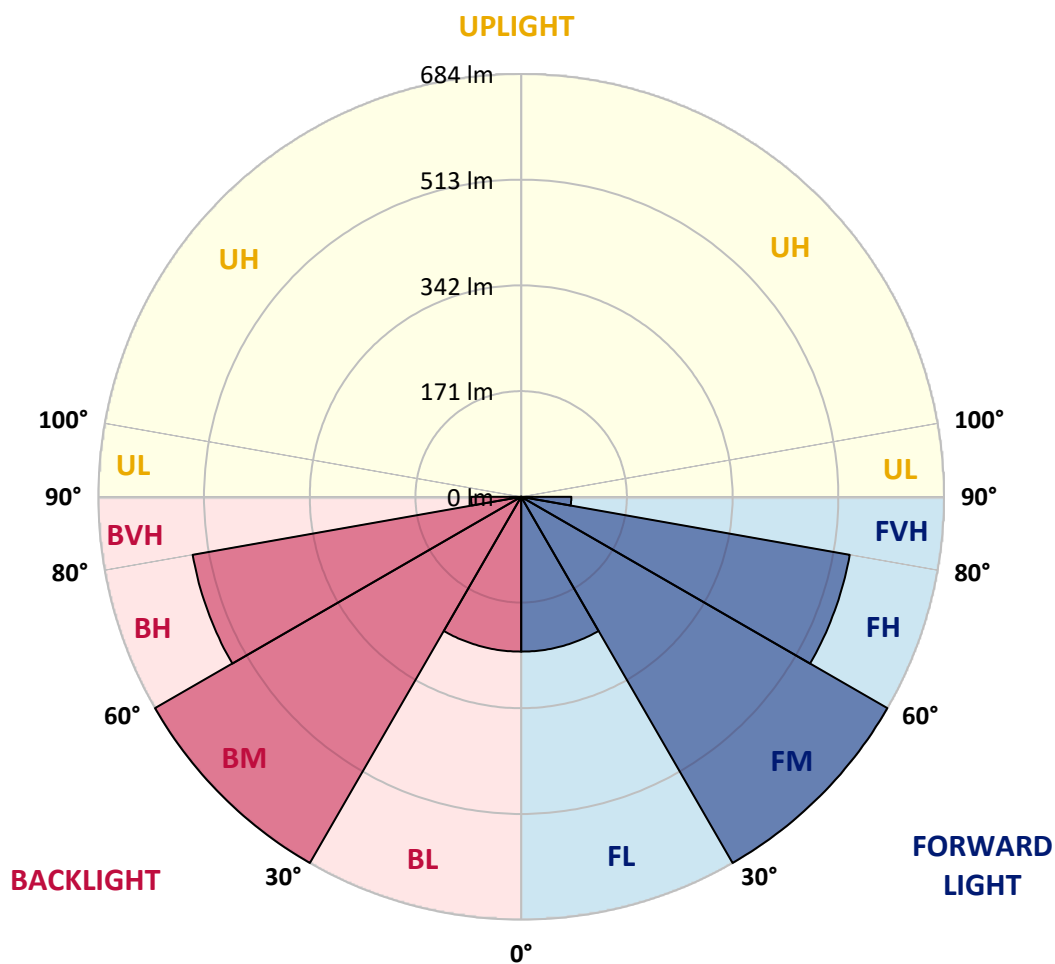
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	250.3	8.1			
FM	(30°-60°)	683.6	22.0			
FH	(60°-80°)	539.3	17.3			G0/660
FVH	(80°-90°)	81.1	2.6			G1/100
BL	(0°-30°)	250.3	8.1	B1/500		
BM	(30°-60°)	683.6	22.0	B1/1000		
BH	(60°-80°)	539.3	17.3	B2/1000		G0/660
BVH	(80°-90°)	81.1	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°	602.3	602.3	602.3	602.3	602.3	602.3	602.3	602.3	602.3	602.3	602.3
2.5°	602.9	602.3	602.9	602.9	602.9	602.9	602.9	602.9	602.9	602.9	602.9
5°	602.3	602.3	602.3	602.3	602.3	602.3	602.3	602.3	602.3	602.3	602.3
7.5°	601.8	601.8	601.8	601.8	601.8	601.8	601.8	601.8	602.3	601.8	602.3
10°	600.6	600.6	600.6	600.6	601.2	601.2	601.2	601.2	601.2	601.2	601.2
12.5°	599.4	599.4	599.4	599.4	600.0	600.0	600.0	600.0	600.6	600.6	600.0
15°	598.3	597.7	597.7	598.3	598.3	598.8	598.8	598.8	599.4	598.8	598.8
17.5°	597.1	596.5	597.1	597.7	597.7	598.3	598.8	598.8	599.4	599.4	599.4
20°	598.8	598.3	598.8	599.4	600.0	601.2	601.8	602.3	602.9	603.4	603.4
22.5°	595.3	594.7	595.3	595.3	595.9	596.5	597.7	598.3	598.8	598.8	598.8
25°	590.1	590.1	590.7	590.7	591.3	591.9	592.5	593.1	593.1	593.7	593.1
27.5°	584.4	584.4	585.0	585.0	586.1	586.1	586.7	587.2	587.8	587.8	587.8
30°	577.4	577.4	578.0	578.6	579.7	580.3	580.9	581.4	582.0	582.0	582.0
32.5°	571.1	570.5	571.1	572.2	573.9	575.1	576.3	576.8	576.8	576.8	577.4
35°	565.8	566.4	567.6	568.7	571.1	572.2	573.3	575.1	575.7	575.7	575.7
37.5°	567.0	567.6	569.3	571.6	574.5	578.0	580.3	582.6	584.4	583.8	583.2
40°	574.5	575.7	578.6	582.0	586.7	591.3	594.7	597.7	599.4	600.0	599.4
42.5°	575.7	576.8	579.1	584.4	589.6	594.7	599.4	602.3	604.6	605.2	604.6
45°	575.1	575.1	578.6	584.4	589.6	594.7	600.6	604.6	606.9	606.9	606.9
47.5°	571.1	572.8	575.1	580.9	587.8	593.1	598.8	602.9	605.8	607.5	605.8
50°	571.1	571.1	575.1	579.1	585.5	594.7	602.9	606.9	609.9	609.3	609.9
52.5°	569.9	573.3	575.7	581.4	593.1	602.3	608.7	614.5	618.5	619.1	618.0
55°	580.3	580.9	586.1	597.1	608.1	618.5	630.1	638.8	645.7	649.8	644.0
57.5°	588.4	585.5	595.9	605.2	618.0	633.6	650.9	657.9	663.1	662.0	663.7
60°	577.4	581.4	589.0	598.8	619.1	634.7	644.0	651.5	657.9	659.6	657.4
61°	572.2	579.1	582.6	595.9	617.4	628.9	638.8	649.3	660.8	664.9	659.6
62.5°	563.5	574.5	573.3	594.7	608.1	621.4	640.0	652.1	660.2	661.4	660.2
65°	564.1	562.4	575.7	591.3	604.6	628.4	644.0	651.5	656.2	658.5	657.4
67.5°	545.6	539.7	555.9	567.0	589.6	608.1	623.2	634.1	641.1	643.4	640.6
70°	502.7	506.8	518.3	535.1	553.7	576.3	590.1	604.6	610.5	611.0	611.0
72.5°	461.6	463.9	475.5	491.1	512.5	532.2	546.2	557.7	563.0	563.5	564.6
75°	407.1	409.5	422.8	437.2	458.7	475.5	485.3	499.3	506.8	513.1	507.9
77.5°	344.0	348.1	358.5	374.2	393.8	403.1	420.5	436.7	441.9	443.6	441.9
80°	272.8	278.0	287.3	308.1	316.8	331.9	348.7	355.6	360.2	361.4	362.0
82.5°	196.3	200.4	210.2	224.7	234.5	246.7	258.3	267.0	272.2	271.1	270.5
85°	115.8	117.0	127.4	137.3	144.8	152.3	161.5	168.0	169.1	171.4	170.8
87.5°	34.8	35.4	40.0	45.2	48.7	52.1	57.9	65.5	67.1	62.5	63.1
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°	602.3	602.3	602.3	602.3	602.3	602.3	602.3	602.3
2.5°	602.9	602.9	602.9	602.9	602.9	602.9	602.3	602.9
5°	602.3	602.3	602.3	602.3	602.3	602.3	602.3	602.3
7.5°	602.3	601.8	601.8	601.8	601.8	601.8	601.8	601.8
10°	601.2	601.2	601.2	601.2	600.6	600.6	600.6	600.6
12.5°	600.0	600.0	600.0	600.0	599.4	599.4	599.4	599.4
15°	598.8	598.8	598.8	598.8	598.3	598.3	598.3	598.3
17.5°	599.4	598.8	598.3	598.3	597.7	597.1	597.1	597.1
20°	602.9	602.3	601.2	600.0	599.4	598.8	598.8	598.8
22.5°	598.3	597.7	596.5	595.9	595.9	595.3	594.7	594.7
25°	593.1	591.9	591.9	591.3	591.3	590.1	590.1	589.6
27.5°	587.2	586.7	586.1	585.5	585.5	585.0	584.4	583.8
30°	582.0	580.9	579.7	579.1	578.6	578.0	578.0	578.0
32.5°	576.8	575.7	575.1	573.3	572.2	571.6	571.1	571.1
35°	575.1	573.3	572.2	570.5	568.7	567.6	567.0	565.8
37.5°	582.0	579.7	578.0	575.1	571.1	569.3	567.6	567.0
40°	597.1	594.7	591.3	586.7	582.0	578.6	575.7	574.5
42.5°	602.3	599.4	594.7	590.1	584.4	579.1	576.8	575.7
45°	604.0	601.2	594.7	589.0	583.8	579.1	575.7	574.5
47.5°	602.3	598.3	592.5	587.8	580.3	574.5	572.2	570.5
50°	606.4	602.9	595.3	585.0	578.6	575.1	571.1	570.5
52.5°	614.5	608.1	601.2	593.7	581.4	574.5	572.2	569.3
55°	638.8	630.1	618.0	605.8	598.3	587.2	580.3	580.3
57.5°	657.4	650.3	634.7	618.5	604.6	596.5	586.1	586.7
60°	652.1	642.8	635.3	619.1	599.4	588.4	584.4	576.8
61°	651.5	638.8	628.4	615.6	598.8	581.4	580.3	570.5
62.5°	652.7	641.1	621.4	608.1	595.3	572.8	572.2	563.0
65°	651.5	640.6	630.7	605.8	588.4	579.1	559.5	567.0
67.5°	633.6	623.8	605.8	591.9	565.2	553.7	542.7	542.7
70°	605.2	590.7	573.3	555.9	538.0	518.3	508.5	502.7
72.5°	557.7	545.6	531.7	513.1	491.1	473.2	463.9	459.9
75°	498.1	484.7	472.6	458.7	435.5	420.5	410.6	407.7
77.5°	435.5	423.9	402.5	389.2	373.6	356.2	347.5	344.0
80°	355.6	349.2	334.2	312.7	305.2	283.8	278.0	272.8
82.5°	267.0	260.0	246.2	231.1	221.8	209.6	199.2	198.1
85°	168.0	163.3	154.6	143.6	132.0	125.1	115.8	118.1
87.5°	62.5	59.6	54.4	47.5	42.3	37.6	33.0	34.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)