

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: P197704

Luminaire Tested: **TT-C1-LED-E1-MQ-CG-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115348)
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-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3223.3 lumens
Efficiency: N/A
Efficacy: 115.1 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



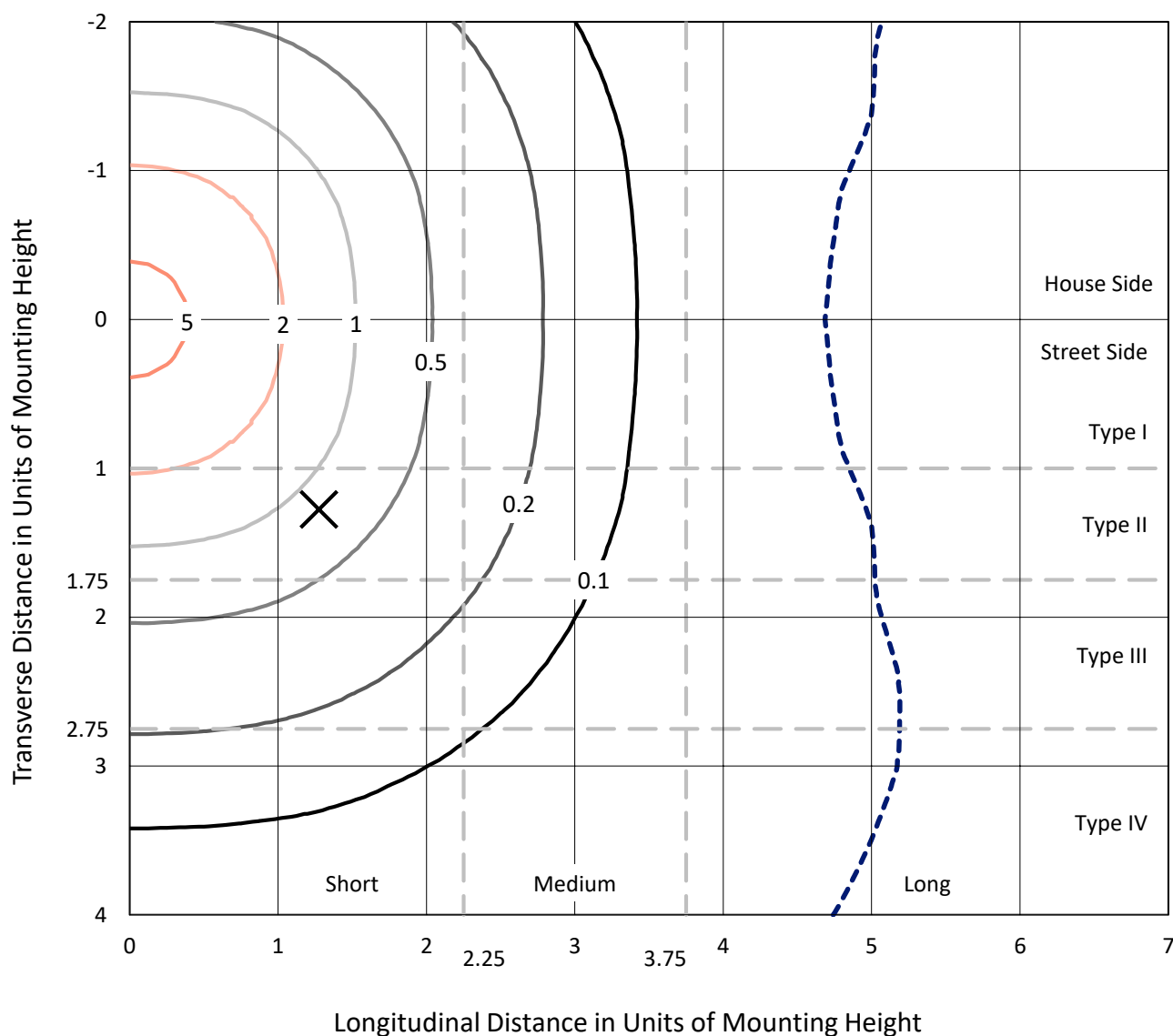
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

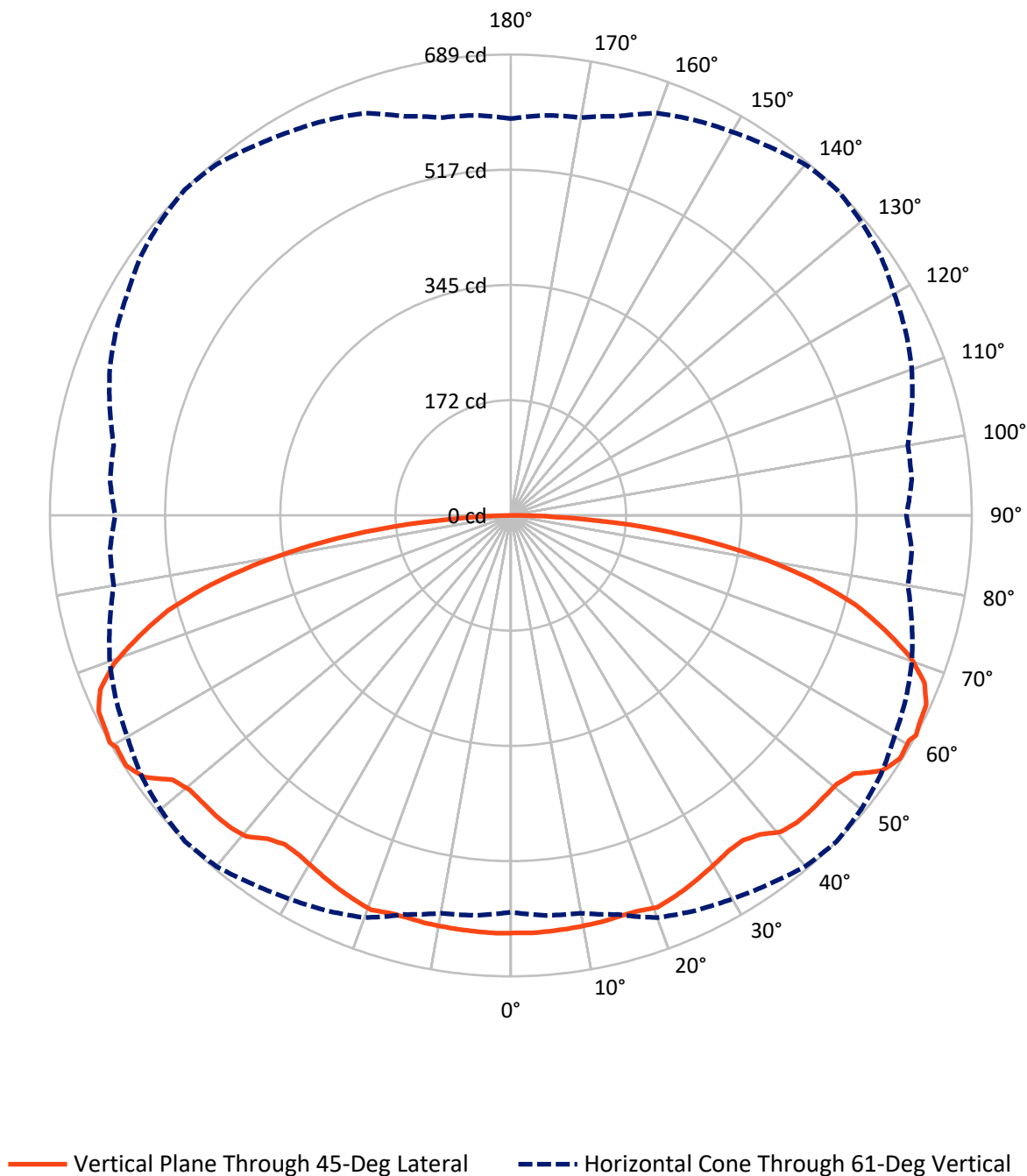


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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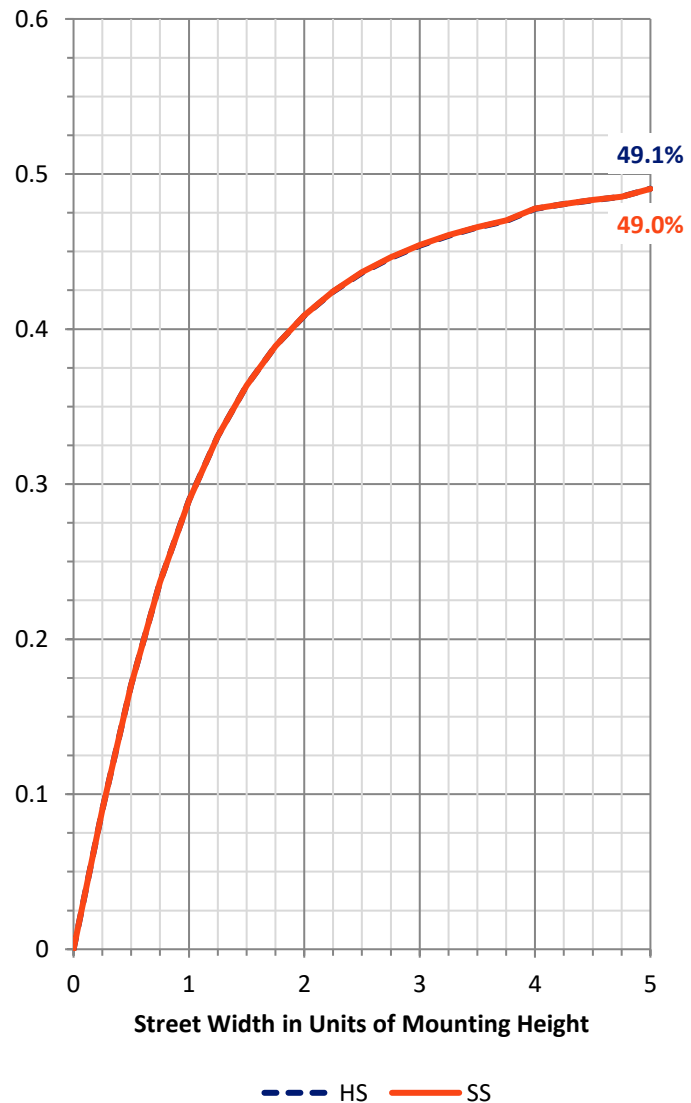
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1611.6	0.0	1611.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1611.6	0.0	1611.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	3223.3	0.0	3223.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	1.8
10°-20°	176.1	5.5
20°-30°	283.4	8.8
30°-40°	375.4	11.6
40°-50°	474.1	14.7
50°-60°	568.1	17.6
60°-70°	621.1	19.3
70°-80°	497.2	15.4
80°-90°	168.2	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°	3223.3	100.0
0°-180°	3223.3	100.0

Coefficient of Utilization



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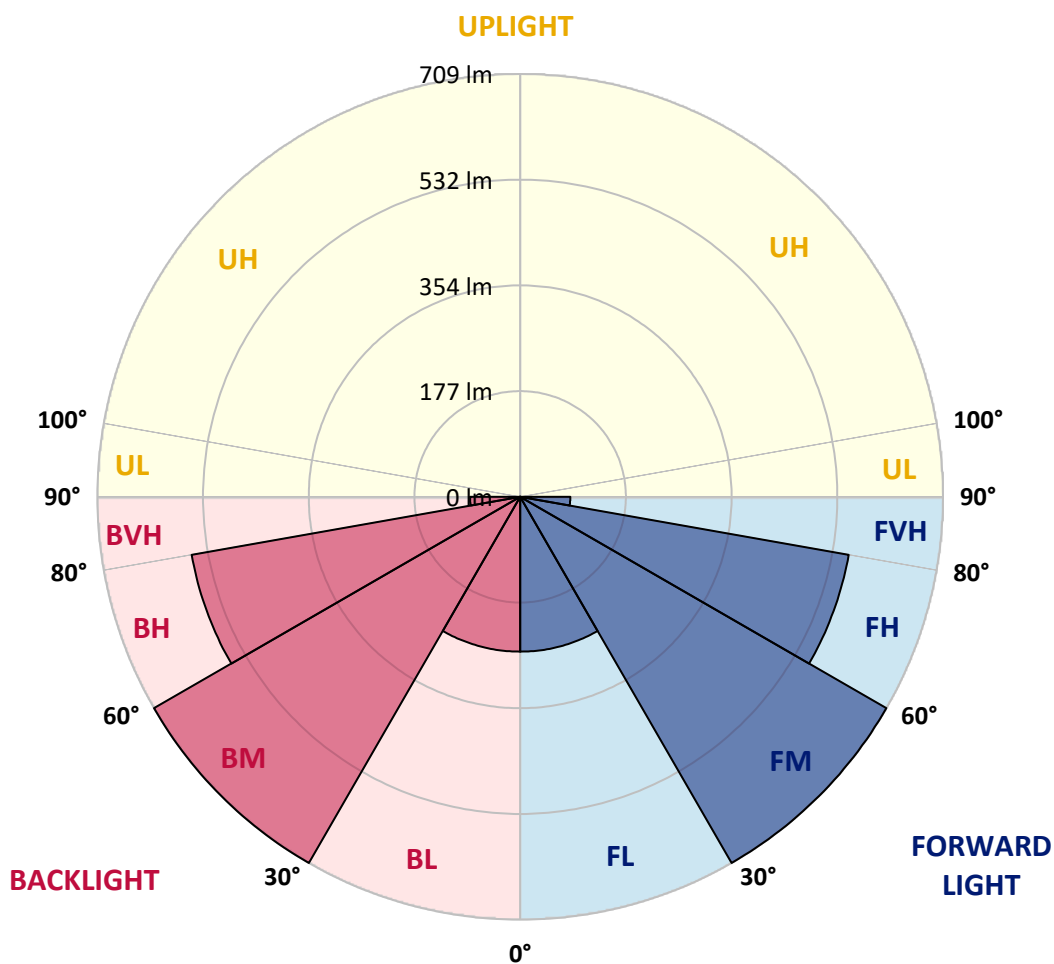
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	259.6	8.1			
FM	(30°-60°)	708.8	22.0			
FH	(60°-80°)	559.2	17.3			G0/660
FVH	(80°-90°)	84.1	2.6			G1/100
BL	(0°-30°)	259.6	8.1	B1/500		
BM	(30°-60°)	708.8	22.0	B1/1000		
BH	(60°-80°)	559.2	17.3	B2/1000		G0/660
BVH	(80°-90°)	84.1	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°	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5
2.5°	625.1	624.5	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1
5°	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5
7.5°	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	624.5	623.9	624.5
10°	622.7	622.7	622.7	622.7	623.2	623.2	623.2	623.2	623.2	623.2	623.2
12.5°	621.5	621.5	621.5	621.5	622.1	622.1	622.1	622.1	622.7	622.7	622.1
15°	620.3	619.7	619.7	620.3	620.3	620.9	620.9	620.9	621.5	620.9	620.9
17.5°	619.1	618.4	619.1	619.7	619.7	620.3	620.9	620.9	621.5	621.5	621.5
20°	620.9	620.3	620.9	621.5	622.1	623.2	623.9	624.5	625.1	625.7	625.7
22.5°	617.3	616.7	617.3	617.3	617.9	618.4	619.7	620.3	620.9	620.9	620.9
25°	611.9	611.9	612.5	612.5	613.1	613.6	614.3	614.9	614.9	615.5	614.9
27.5°	605.9	605.9	606.5	606.5	607.7	607.7	608.3	608.8	609.4	609.4	609.4
30°	598.7	598.7	599.2	599.8	601.1	601.7	602.3	602.9	603.5	603.5	603.5
32.5°	592.1	591.5	592.1	593.3	595.0	596.3	597.5	598.1	598.1	598.1	598.7
35°	586.7	587.3	588.5	589.6	592.1	593.3	594.4	596.3	596.9	596.9	596.9
37.5°	587.9	588.5	590.2	592.7	595.6	599.2	601.7	604.0	605.9	605.3	604.6
40°	595.6	596.9	599.8	603.5	608.3	613.1	616.7	619.7	621.5	622.1	621.5
42.5°	596.9	598.1	600.5	605.9	611.3	616.7	621.5	624.5	626.9	627.5	626.9
45°	596.3	596.3	599.8	605.9	611.3	616.7	622.7	626.9	629.3	629.3	629.3
47.5°	592.1	593.9	596.3	602.3	609.4	614.9	620.9	625.1	628.1	629.9	628.1
50°	592.1	592.1	596.3	600.5	607.1	616.7	625.1	629.3	632.3	631.7	632.3
52.5°	590.8	594.4	596.9	602.9	614.9	624.5	631.1	637.1	641.3	641.9	640.7
55°	601.7	602.3	607.7	619.1	630.5	641.3	653.3	662.3	669.5	673.7	667.7
57.5°	610.1	607.1	617.9	627.5	640.7	656.9	674.9	682.1	687.5	686.3	688.1
60°	598.7	602.9	610.7	620.9	641.9	658.1	667.7	675.5	682.1	683.9	681.5
61°	593.3	600.5	604.0	617.9	640.1	652.1	662.3	673.1	685.1	689.3	683.9
62.5°	584.3	595.6	594.4	616.7	630.5	644.3	663.5	676.2	684.5	685.8	684.5
65°	584.8	583.1	596.9	613.1	626.9	651.5	667.7	675.5	680.3	682.7	681.5
67.5°	565.6	559.7	576.4	587.9	611.3	630.5	646.1	657.5	664.7	667.1	664.1
70°	521.2	525.4	537.4	554.9	574.1	597.5	611.9	626.9	632.9	633.5	633.5
72.5°	478.5	481.0	493.0	509.2	531.4	551.8	566.2	578.3	583.7	584.3	585.4
75°	422.1	424.5	438.4	453.4	475.6	493.0	503.2	517.6	525.4	532.0	526.6
77.5°	356.6	360.9	371.7	387.9	408.3	417.9	435.9	452.8	458.2	459.9	458.2
80°	282.8	288.3	297.9	319.4	328.4	344.1	361.4	368.7	373.5	374.7	375.3
82.5°	203.6	207.7	218.0	233.0	243.2	255.8	267.8	276.8	282.2	281.0	280.4
85°	120.1	121.3	132.1	142.3	150.1	157.9	167.5	174.1	175.3	177.7	177.1
87.5°	36.1	36.6	41.4	46.8	50.5	54.1	60.1	67.9	69.7	64.9	65.5
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°	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5
2.5°	625.1	625.1	625.1	625.1	625.1	625.1	624.5	625.1
5°	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5
7.5°	624.5	623.9	623.9	623.9	623.9	623.9	623.9	623.9
10°	623.2	623.2	623.2	623.2	622.7	622.7	622.7	622.7
12.5°	622.1	622.1	622.1	622.1	621.5	621.5	621.5	621.5
15°	620.9	620.9	620.9	620.9	620.3	620.3	620.3	620.3
17.5°	621.5	620.9	620.3	620.3	619.7	619.1	619.1	619.1
20°	625.1	624.5	623.2	622.1	621.5	620.9	620.9	620.9
22.5°	620.3	619.7	618.4	617.9	617.9	617.3	616.7	616.7
25°	614.9	613.6	613.6	613.1	613.1	611.9	611.9	611.3
27.5°	608.8	608.3	607.7	607.1	607.1	606.5	605.9	605.3
30°	603.5	602.3	601.1	600.5	599.8	599.2	599.2	599.2
32.5°	598.1	596.9	596.3	594.4	593.3	592.7	592.1	592.1
35°	596.3	594.4	593.3	591.5	589.6	588.5	587.9	586.7
37.5°	603.5	601.1	599.2	596.3	592.1	590.2	588.5	587.9
40°	619.1	616.7	613.1	608.3	603.5	599.8	596.9	595.6
42.5°	624.5	621.5	616.7	611.9	605.9	600.5	598.1	596.9
45°	626.3	623.2	616.7	610.7	605.3	600.5	596.9	595.6
47.5°	624.5	620.3	614.3	609.4	601.7	595.6	593.3	591.5
50°	628.7	625.1	617.3	606.5	599.8	596.3	592.1	591.5
52.5°	637.1	630.5	623.2	615.5	602.9	595.6	593.3	590.2
55°	662.3	653.3	640.7	628.1	620.3	608.8	601.7	601.7
57.5°	681.5	674.3	658.1	641.3	626.9	618.4	607.7	608.3
60°	676.2	666.5	658.7	641.9	621.5	610.1	605.9	598.1
61°	675.5	662.3	651.5	638.3	620.9	602.9	601.7	591.5
62.5°	676.7	664.7	644.3	630.5	617.3	593.9	593.3	583.7
65°	675.5	664.1	653.9	628.1	610.1	600.5	580.0	587.9
67.5°	656.9	646.7	628.1	613.6	586.0	574.1	562.6	562.6
70°	627.5	612.5	594.4	576.4	557.8	537.4	527.2	521.2
72.5°	578.3	565.6	551.2	532.0	509.2	490.6	481.0	476.8
75°	516.4	502.6	490.0	475.6	451.6	435.9	425.7	422.7
77.5°	451.6	439.5	417.3	403.5	387.3	369.3	360.3	356.6
80°	368.7	362.1	346.5	324.2	316.5	294.2	288.3	282.8
82.5°	276.8	269.6	255.2	239.6	230.0	217.4	206.5	205.4
85°	174.1	169.3	160.3	148.9	136.9	129.7	120.1	122.5
87.5°	64.9	61.8	56.4	49.2	43.8	39.0	34.2	36.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)