

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: P197657

Luminaire Tested: **TT-C2-LED-E1-MQ-CG-LWR-LW-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197657  
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-C2-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: 3229.2 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: B2 - U0 - G1

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

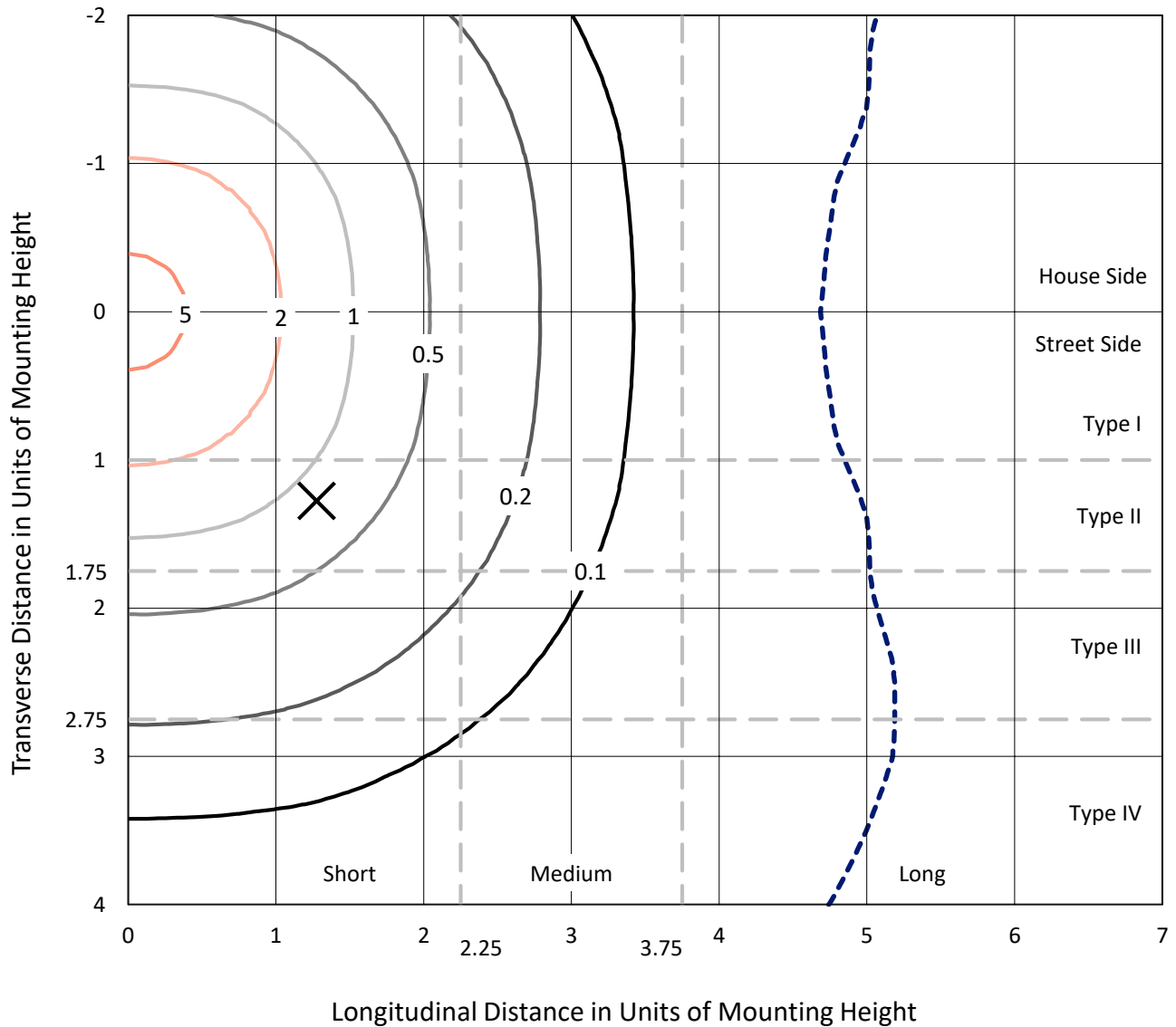


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

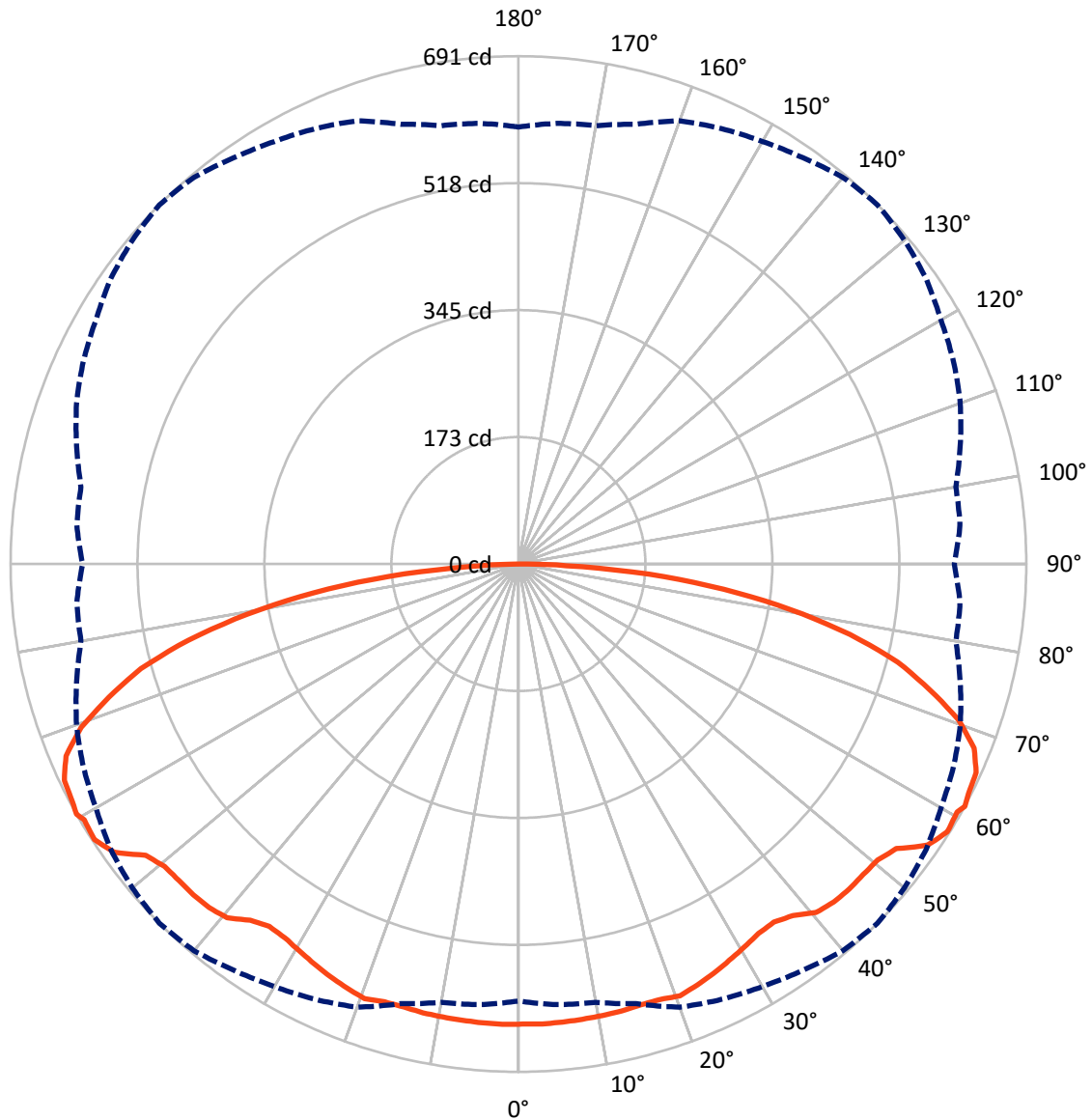


Based on 10 foot mounting height. Maximum calculated value = 6.3 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 61-Deg Vertical

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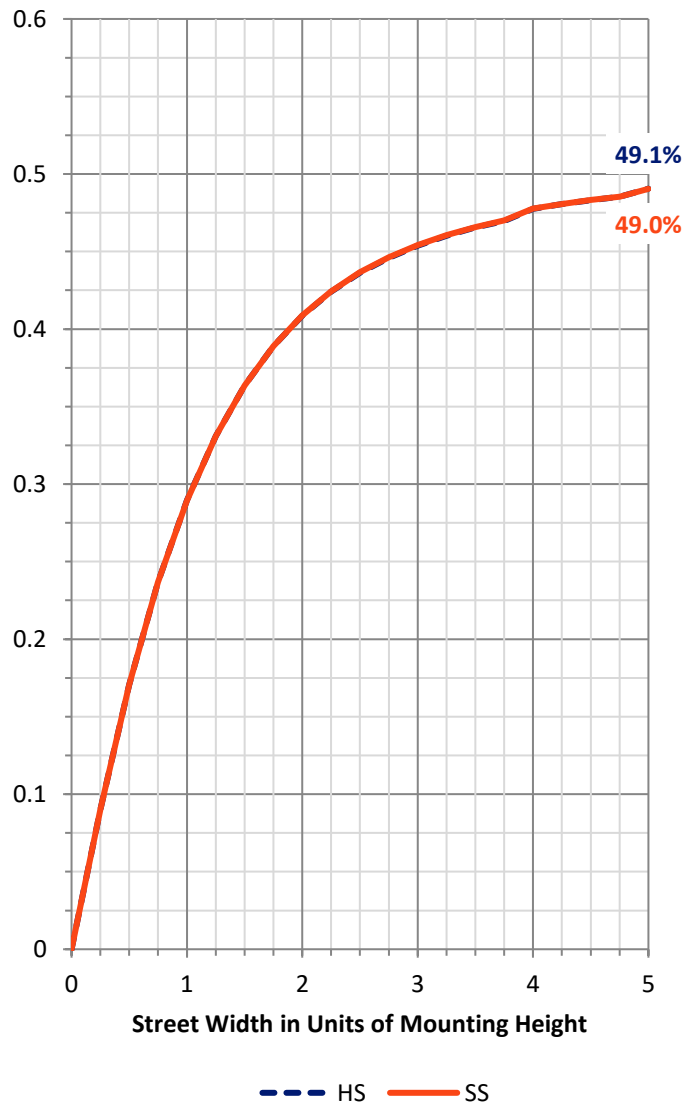
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1614.6	0.0	1614.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1614.6	0.0	1614.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3229.2	0.0	3229.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.7	1.8
10°-20°	176.4	5.5
20°-30°	283.9	8.8
30°-40°	376.1	11.6
40°-50°	475.0	14.7
50°-60°	569.1	17.6
60°-70°	622.3	19.3
70°-80°	498.1	15.4
80°-90°	168.5	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°	3229.2	100.0
0°-180°	3229.2	100.0



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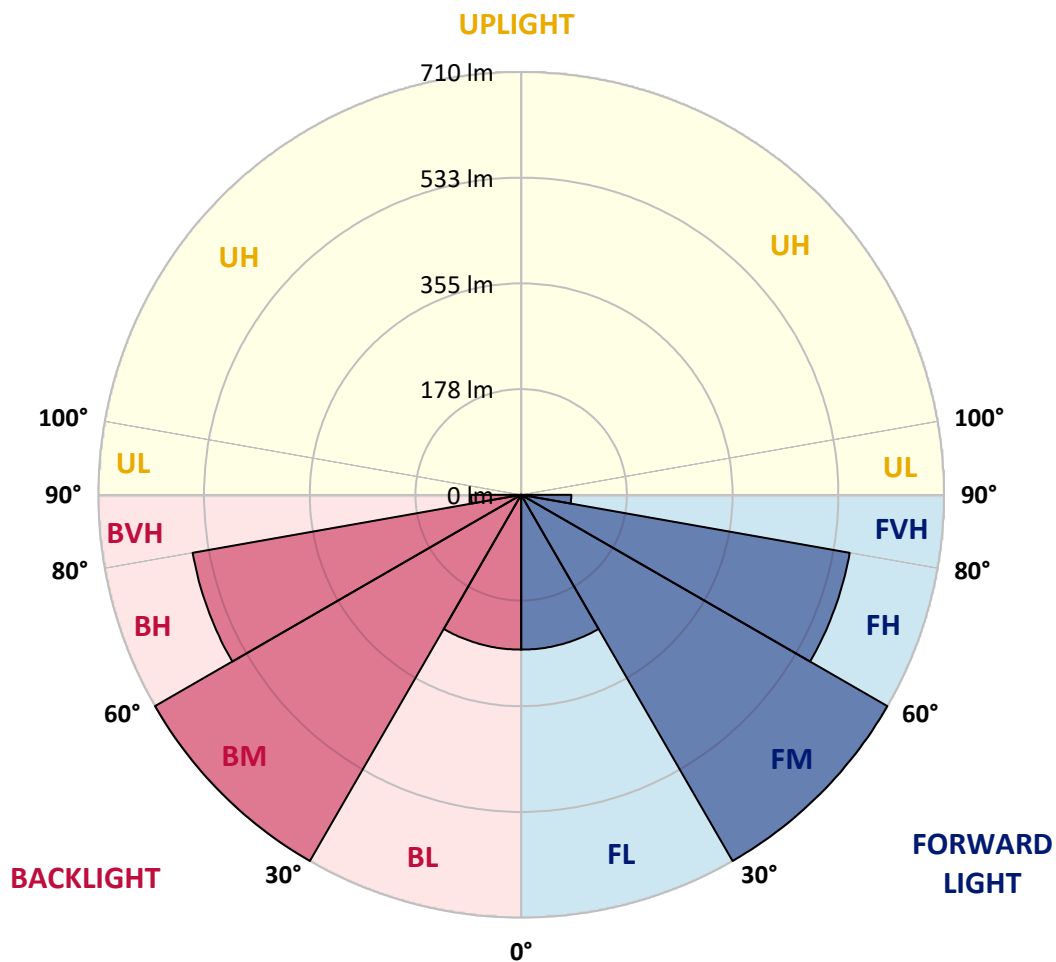
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	260.0	8.1			
FM	(30°-60°)	710.1	22.0			
FH	(60°-80°)	560.2	17.3			G0/660
FVH	(80°-90°)	84.3	2.6			G1/100
BL	(0°-30°)	260.0	8.1	B1/500		
BM	(30°-60°)	710.1	22.0	B1/1000		
BH	(60°-80°)	560.2	17.3	B2/1000		G0/660
BVH	(80°-90°)	84.3	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°	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7
2.5°	626.2	625.7	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
5°	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7
7.5°	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.1	625.7	625.1	625.7
10°	623.9	623.9	623.9	623.9	624.5	624.5	624.5	624.5	624.5	624.5	624.5
12.5°	622.6	622.6	622.6	622.6	623.2	623.2	623.2	623.2	623.9	623.9	623.2
15°	621.4	620.8	620.8	621.4	621.4	622.0	622.0	622.0	622.6	622.0	622.0
17.5°	620.2	619.6	620.2	620.8	620.8	621.4	622.0	622.0	622.6	622.6	622.6
20°	622.0	621.4	622.0	622.6	623.2	624.5	625.1	625.7	626.2	626.8	626.8
22.5°	618.4	617.8	618.4	618.4	619.0	619.6	620.8	621.4	622.0	622.0	622.0
25°	613.0	613.0	613.6	613.6	614.2	614.8	615.4	616.0	616.0	616.6	616.0
27.5°	607.0	607.0	607.6	607.6	608.8	608.8	609.4	610.0	610.6	610.6	610.6
30°	599.8	599.8	600.4	601.0	602.1	602.8	603.4	604.0	604.6	604.6	604.6
32.5°	593.2	592.6	593.2	594.3	596.1	597.4	598.6	599.2	599.2	599.2	599.8
35°	587.7	588.3	589.5	590.8	593.2	594.3	595.5	597.4	598.0	598.0	598.0
37.5°	588.9	589.5	591.4	593.7	596.8	600.4	602.8	605.2	607.0	606.4	605.8
40°	596.8	598.0	601.0	604.6	609.4	614.2	617.8	620.8	622.6	623.2	622.6
42.5°	598.0	599.2	601.5	607.0	612.4	617.8	622.6	625.7	628.0	628.6	628.0
45°	597.4	597.4	601.0	607.0	612.4	617.8	623.9	628.0	630.5	630.5	630.5
47.5°	593.2	594.9	597.4	603.4	610.6	616.0	622.0	626.2	629.2	631.1	629.2
50°	593.2	593.2	597.4	601.5	608.2	617.8	626.2	630.5	633.5	632.9	633.5
52.5°	592.0	595.5	598.0	604.0	616.0	625.7	632.3	638.3	642.4	643.1	641.9
55°	602.8	603.4	608.8	620.2	631.7	642.4	654.5	663.5	670.8	675.0	668.9
57.5°	611.2	608.2	619.0	628.6	641.9	658.2	676.1	683.4	688.8	687.6	689.4
60°	599.8	604.0	611.8	622.0	643.1	659.3	668.9	676.7	683.4	685.2	682.8
61°	594.3	601.5	605.2	619.0	641.3	653.3	663.5	674.4	686.4	690.6	685.2
62.5°	585.3	596.8	595.5	617.8	631.7	645.5	664.8	677.4	685.8	687.0	685.8
65°	585.9	584.2	598.0	614.2	628.0	652.7	668.9	676.7	681.6	684.0	682.8
67.5°	566.7	560.6	577.5	588.9	612.4	631.7	647.3	658.7	666.0	668.3	665.4
70°	522.2	526.4	538.4	555.8	575.1	598.6	613.0	628.0	634.1	634.6	634.6
72.5°	479.4	481.9	493.9	510.2	532.4	552.8	567.3	579.3	584.8	585.3	586.5
75°	422.9	425.3	439.1	454.2	476.5	493.9	504.1	518.6	526.4	533.0	527.6
77.5°	357.3	361.6	372.3	388.7	409.1	418.7	436.8	453.6	459.0	460.8	459.0
80°	283.3	288.8	298.4	320.0	329.1	344.7	362.2	369.4	374.2	375.4	376.0
82.5°	203.9	208.2	218.3	233.4	243.6	256.3	268.3	277.3	282.7	281.6	281.0
85°	120.3	121.5	132.4	142.6	150.4	158.2	167.8	174.5	175.7	178.0	177.4
87.5°	36.1	36.7	41.5	46.9	50.5	54.1	60.2	68.0	69.7	65.0	65.6
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°	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7
2.5°	626.2	626.2	626.2	626.2	626.2	626.2	625.7	626.2
5°	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7
7.5°	625.7	625.1	625.1	625.1	625.1	625.1	625.1	625.1
10°	624.5	624.5	624.5	624.5	623.9	623.9	623.9	623.9
12.5°	623.2	623.2	623.2	623.2	622.6	622.6	622.6	622.6
15°	622.0	622.0	622.0	622.0	621.4	621.4	621.4	621.4
17.5°	622.6	622.0	621.4	621.4	620.8	620.2	620.2	620.2
20°	626.2	625.7	624.5	623.2	622.6	622.0	622.0	622.0
22.5°	621.4	620.8	619.6	619.0	619.0	618.4	617.8	617.8
25°	616.0	614.8	614.8	614.2	614.2	613.0	613.0	612.4
27.5°	610.0	609.4	608.8	608.2	608.2	607.6	607.0	606.4
30°	604.6	603.4	602.1	601.5	601.0	600.4	600.4	600.4
32.5°	599.2	598.0	597.4	595.5	594.3	593.7	593.2	593.2
35°	597.4	595.5	594.3	592.6	590.8	589.5	588.9	587.7
37.5°	604.6	602.1	600.4	597.4	593.2	591.4	589.5	588.9
40°	620.2	617.8	614.2	609.4	604.6	601.0	598.0	596.8
42.5°	625.7	622.6	617.8	613.0	607.0	601.5	599.2	598.0
45°	627.4	624.5	617.8	611.8	606.4	601.5	598.0	596.8
47.5°	625.7	621.4	615.4	610.6	602.8	596.8	594.3	592.6
50°	629.8	626.2	618.4	607.6	601.0	597.4	593.2	592.6
52.5°	638.3	631.7	624.5	616.6	604.0	596.8	594.3	591.4
55°	663.5	654.5	641.9	629.2	621.4	610.0	602.8	602.8
57.5°	682.8	675.5	659.3	642.4	628.0	619.6	608.8	609.4
60°	677.4	667.7	659.9	643.1	622.6	611.2	607.0	599.2
61°	676.7	663.5	652.7	639.5	622.0	604.0	602.8	592.6
62.5°	678.0	666.0	645.5	631.7	618.4	594.9	594.3	584.8
65°	676.7	665.4	655.1	629.2	611.2	601.5	581.1	588.9
67.5°	658.2	647.9	629.2	614.8	587.1	575.1	563.7	563.7
70°	628.6	613.6	595.5	577.5	558.9	538.4	528.1	522.2
72.5°	579.3	566.7	552.3	533.0	510.2	491.5	481.9	477.7
75°	517.4	503.5	490.9	476.5	452.4	436.8	426.5	423.5
77.5°	452.4	440.3	418.1	404.3	388.0	370.0	361.0	357.3
80°	369.4	362.8	347.1	324.8	317.0	294.8	288.8	283.3
82.5°	277.3	270.1	255.7	240.1	230.4	217.7	207.0	205.7
85°	174.5	169.6	160.6	149.2	137.1	129.9	120.3	122.7
87.5°	65.0	61.9	56.5	49.3	43.9	39.1	34.3	36.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)