

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: P197703

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197703
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3298 lumens
Efficiency: N/A
Efficacy: 117.8 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

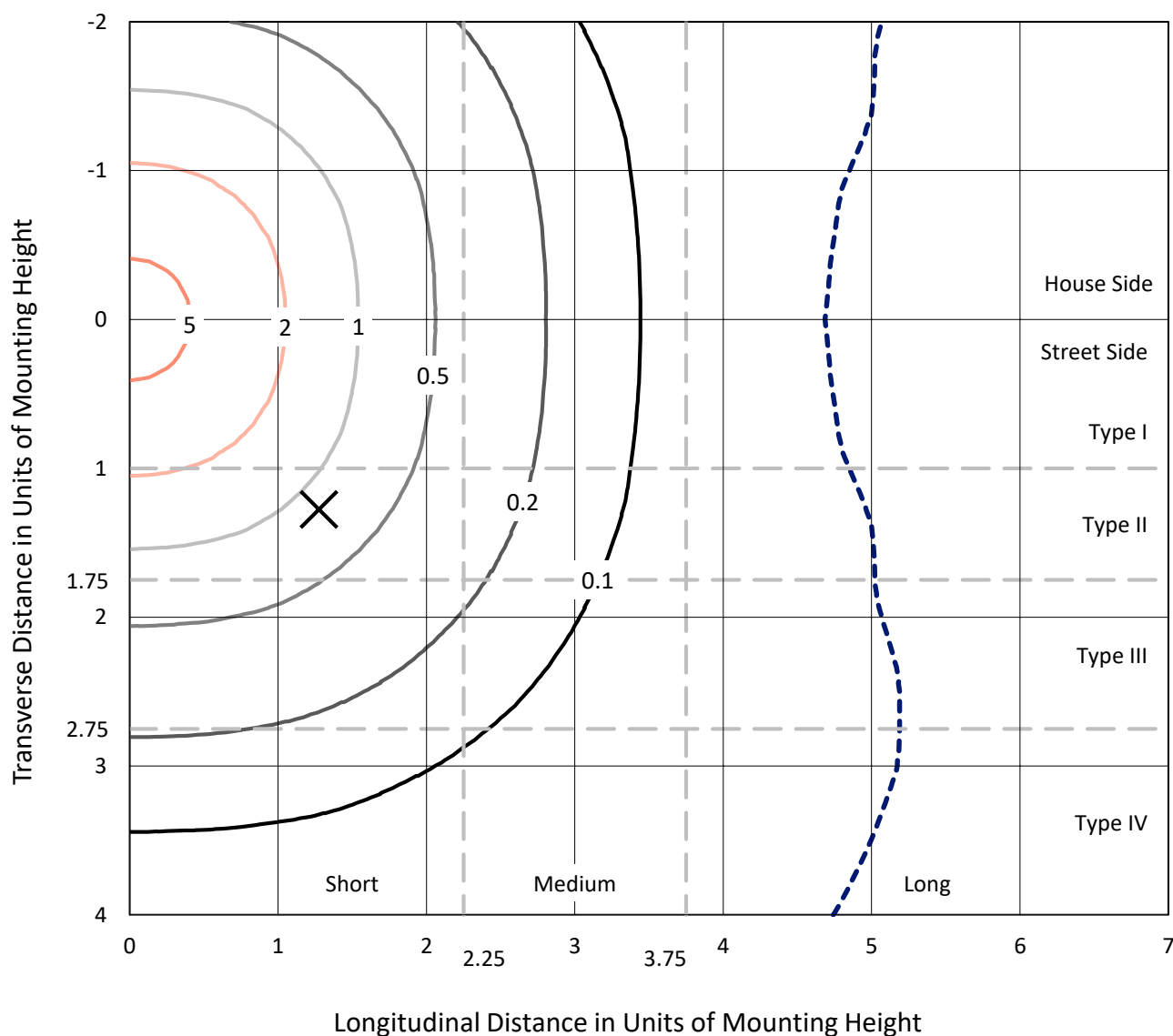


REPORT NUMBER: P197703

CATALOG NUMBER: TT-C1-LED-E1-MQ-CG-7050

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

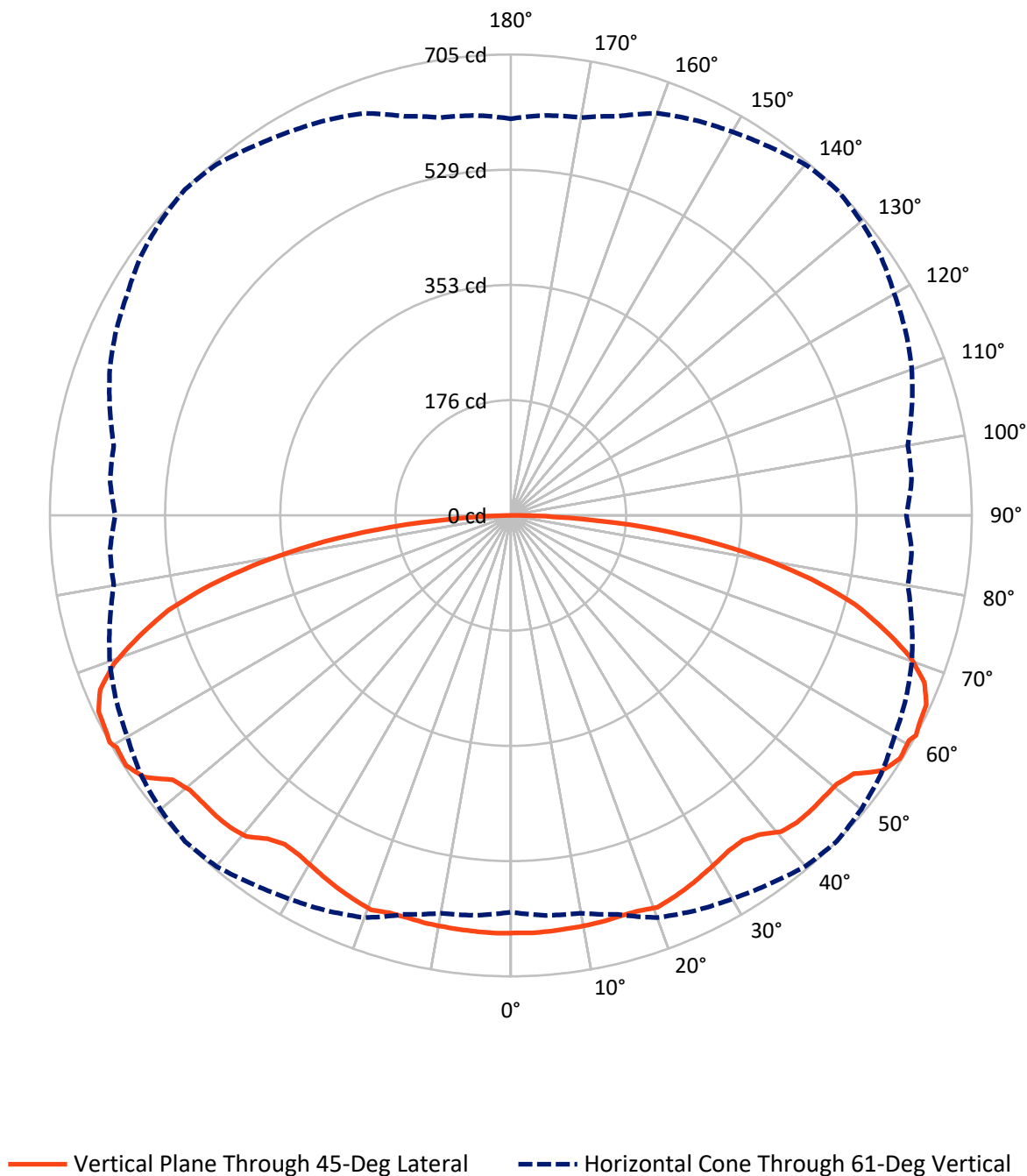


Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197703

CATALOG NUMBER: TT-C1-LED-E1-MQ-CG-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P197703

CATALOG NUMBER: TT-C1-LED-E1-MQ-CG-7050

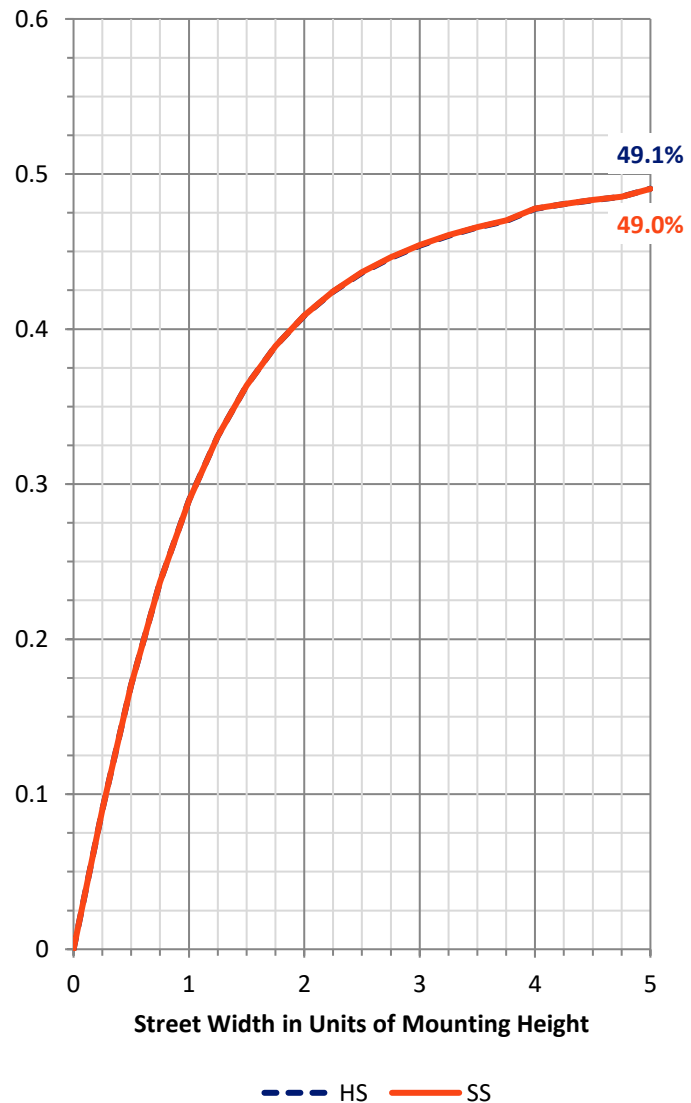
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1649.0	0.0	1649.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1649.0	0.0	1649.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3298.0	0.0	3298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	1.8
10°-20°	180.2	5.5
20°-30°	290.0	8.8
30°-40°	384.1	11.6
40°-50°	485.1	14.7
50°-60°	581.2	17.6
60°-70°	635.5	19.3
70°-80°	508.7	15.4
80°-90°	172.1	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°	3298.0	100.0
0°-180°	3298.0	100.0

Coefficient of Utilization



REPORT NUMBER: P197703

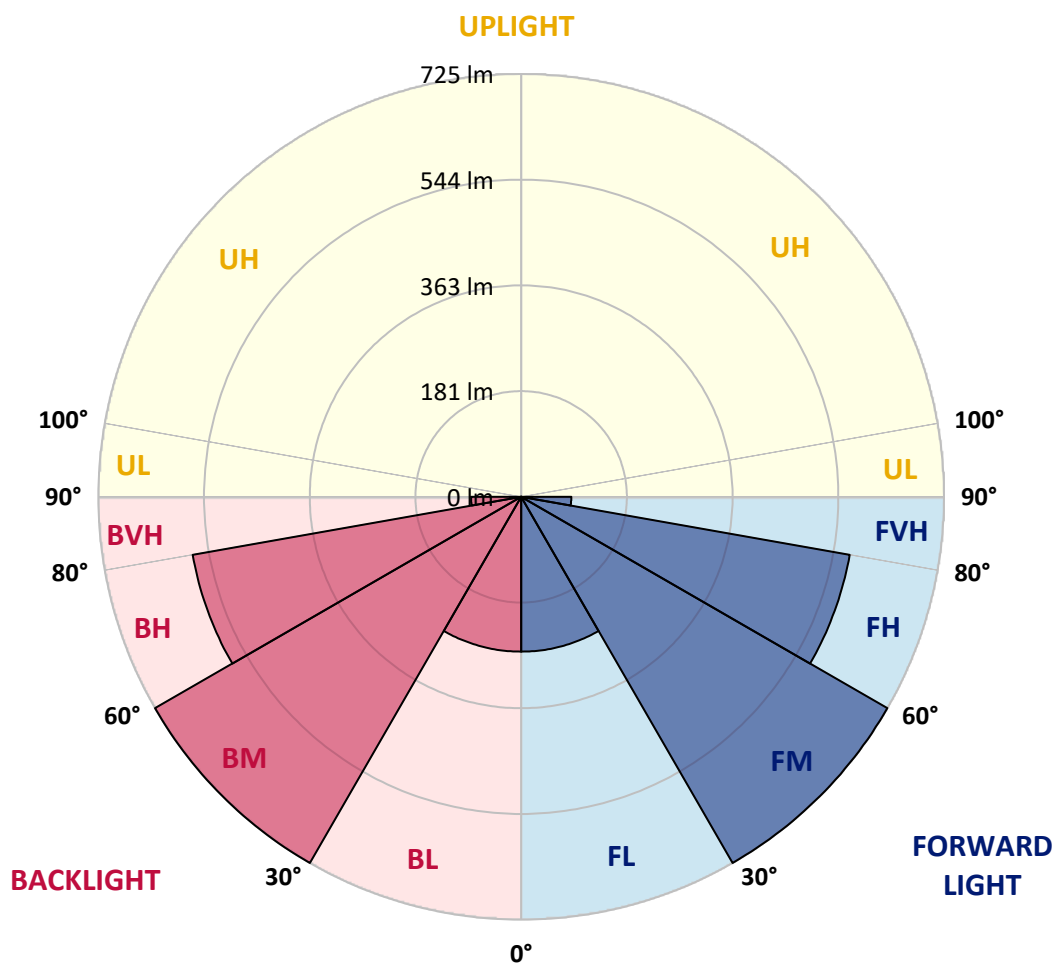
CATALOG NUMBER: TT-C1-LED-E1-MQ-CG-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	265.6	8.1			
FM	(30°-60°)	725.2	22.0			
FH	(60°-80°)	572.1	17.3			G0/660
FVH	(80°-90°)	86.1	2.6			G1/100
BL	(0°-30°)	265.6	8.1	B1/500		
BM	(30°-60°)	725.2	22.0	B1/1000		
BH	(60°-80°)	572.1	17.3	B2/1000		G0/660
BVH	(80°-90°)	86.1	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



REPORT NUMBER: P197703

CATALOG NUMBER: TT-C1-LED-E1-MQ-CG-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
2.5°	639.6	639.0	639.6	639.6	639.6	639.6	639.6	639.6	639.6	639.6	639.6
5°	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
7.5°	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3	639.0	638.3	639.0
10°	637.2	637.2	637.2	637.2	637.7	637.7	637.7	637.7	637.7	637.7	637.7
12.5°	635.9	635.9	635.9	635.9	636.5	636.5	636.5	636.5	637.2	637.2	636.5
15°	634.7	634.0	634.0	634.7	634.7	635.3	635.3	635.3	635.9	635.3	635.3
17.5°	633.4	632.8	633.4	634.0	634.0	634.7	635.3	635.3	635.9	635.9	635.9
20°	635.3	634.7	635.3	635.9	636.5	637.7	638.3	639.0	639.6	640.2	640.2
22.5°	631.6	631.0	631.6	631.6	632.2	632.8	634.0	634.7	635.3	635.3	635.3
25°	626.1	626.1	626.7	626.7	627.3	627.9	628.5	629.1	629.1	629.8	629.1
27.5°	619.9	619.9	620.5	620.5	621.8	621.8	622.4	623.0	623.6	623.6	623.6
30°	612.6	612.6	613.1	613.8	615.0	615.6	616.3	616.9	617.5	617.5	617.5
32.5°	605.8	605.2	605.8	607.0	608.8	610.1	611.3	612.0	612.0	612.0	612.6
35°	600.3	600.9	602.1	603.3	605.8	607.0	608.2	610.1	610.7	610.7	610.7
37.5°	601.5	602.1	603.9	606.4	609.5	613.1	615.6	618.1	619.9	619.3	618.7
40°	609.5	610.7	613.8	617.5	622.4	627.3	631.0	634.0	635.9	636.5	635.9
42.5°	610.7	612.0	614.4	619.9	625.5	631.0	635.9	639.0	641.5	642.1	641.5
45°	610.1	610.1	613.8	619.9	625.5	631.0	637.2	641.5	643.9	643.9	643.9
47.5°	605.8	607.7	610.1	616.3	623.6	629.1	635.3	639.6	642.6	644.5	642.6
50°	605.8	605.8	610.1	614.4	621.2	631.0	639.6	643.9	647.0	646.4	647.0
52.5°	604.6	608.2	610.7	616.9	629.1	639.0	645.7	651.9	656.2	656.8	655.6
55°	615.6	616.3	621.8	633.4	645.1	656.2	668.4	677.7	685.1	689.3	683.2
57.5°	624.2	621.2	632.2	642.1	655.6	672.2	690.6	697.9	703.5	702.2	704.1
60°	612.6	616.9	624.8	635.3	656.8	673.4	683.2	691.2	697.9	699.8	697.3
61°	607.0	614.4	618.1	632.2	654.9	667.3	677.7	688.7	701.0	705.3	699.8
62.5°	597.8	609.5	608.2	631.0	645.1	659.2	678.9	691.8	700.4	701.7	700.4
65°	598.4	596.6	610.7	627.3	641.5	666.6	683.2	691.2	696.1	698.6	697.3
67.5°	578.7	572.6	589.8	601.5	625.5	645.1	661.1	672.7	680.1	682.6	679.5
70°	533.3	537.6	549.9	567.7	587.4	611.3	626.1	641.5	647.5	648.2	648.2
72.5°	489.7	492.1	504.4	521.0	543.7	564.6	579.4	591.7	597.2	597.8	599.0
75°	431.9	434.3	448.5	463.9	486.6	504.4	514.8	529.6	537.6	544.3	538.8
77.5°	364.9	369.3	380.3	396.9	417.8	427.6	446.0	463.3	468.8	470.6	468.8
80°	289.4	294.9	304.8	326.9	336.1	352.0	369.8	377.2	382.2	383.4	384.0
82.5°	208.3	212.6	223.0	238.4	248.8	261.7	274.0	283.2	288.8	287.5	286.9
85°	122.9	124.1	135.2	145.6	153.6	161.6	171.4	178.2	179.4	181.8	181.2
87.5°	36.9	37.4	42.4	47.9	51.6	55.3	61.5	69.4	71.3	66.4	67.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P197703

CATALOG NUMBER: TT-C1-LED-E1-MQ-CG-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
2.5°	639.6	639.6	639.6	639.6	639.6	639.6	639.0	639.6
5°	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
7.5°	639.0	638.3	638.3	638.3	638.3	638.3	638.3	638.3
10°	637.7	637.7	637.7	637.7	637.2	637.2	637.2	637.2
12.5°	636.5	636.5	636.5	636.5	635.9	635.9	635.9	635.9
15°	635.3	635.3	635.3	635.3	634.7	634.7	634.7	634.7
17.5°	635.9	635.3	634.7	634.7	634.0	633.4	633.4	633.4
20°	639.6	639.0	637.7	636.5	635.9	635.3	635.3	635.3
22.5°	634.7	634.0	632.8	632.2	632.2	631.6	631.0	631.0
25°	629.1	627.9	627.9	627.3	627.3	626.1	626.1	625.5
27.5°	623.0	622.4	621.8	621.2	621.2	620.5	619.9	619.3
30°	617.5	616.3	615.0	614.4	613.8	613.1	613.1	613.1
32.5°	612.0	610.7	610.1	608.2	607.0	606.4	605.8	605.8
35°	610.1	608.2	607.0	605.2	603.3	602.1	601.5	600.3
37.5°	617.5	615.0	613.1	610.1	605.8	603.9	602.1	601.5
40°	633.4	631.0	627.3	622.4	617.5	613.8	610.7	609.5
42.5°	639.0	635.9	631.0	626.1	619.9	614.4	612.0	610.7
45°	640.8	637.7	631.0	624.8	619.3	614.4	610.7	609.5
47.5°	639.0	634.7	628.5	623.6	615.6	609.5	607.0	605.2
50°	643.2	639.6	631.6	620.5	613.8	610.1	605.8	605.2
52.5°	651.9	645.1	637.7	629.8	616.9	609.5	607.0	603.9
55°	677.7	668.4	655.6	642.6	634.7	623.0	615.6	615.6
57.5°	697.3	690.0	673.4	656.2	641.5	632.8	621.8	622.4
60°	691.8	682.0	674.0	656.8	635.9	624.2	619.9	612.0
61°	691.2	677.7	666.6	653.1	635.3	616.9	615.6	605.2
62.5°	692.4	680.1	659.2	645.1	631.6	607.7	607.0	597.2
65°	691.2	679.5	669.1	642.6	624.2	614.4	593.5	601.5
67.5°	672.2	661.7	642.6	627.9	599.6	587.4	575.7	575.7
70°	642.1	626.7	608.2	589.8	570.8	549.9	539.4	533.3
72.5°	591.7	578.7	564.0	544.3	521.0	502.0	492.1	487.9
75°	528.4	514.2	501.4	486.6	462.0	446.0	435.6	432.5
77.5°	462.0	449.7	427.0	412.9	396.3	377.9	368.7	364.9
80°	377.2	370.5	354.5	331.8	323.8	301.0	294.9	289.4
82.5°	283.2	275.8	261.1	245.2	235.3	222.4	211.3	210.1
85°	178.2	173.3	164.0	152.4	140.1	132.7	122.9	125.4
87.5°	66.4	63.3	57.7	50.4	44.9	39.9	35.0	36.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)