

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: P197605

Luminaire Tested: **TT-C1-LED-E1-MQ-MS/DIM-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115333)
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-MS/DIM-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3281.9 lumens
Efficiency: N/A
Efficacy: 117.2 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



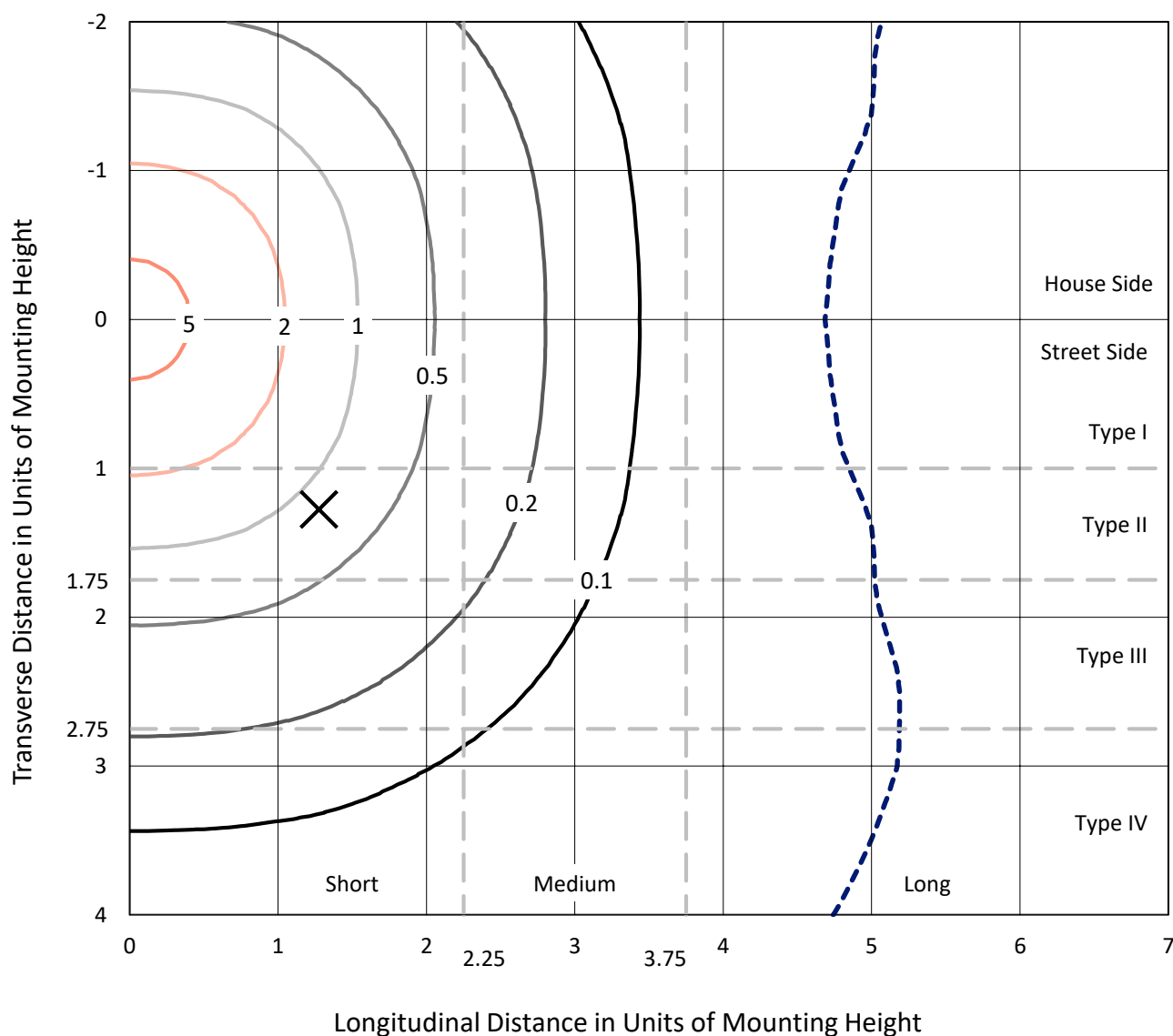
REPORT NUMBER: P197605

CATALOG NUMBER: TT-C1-LED-E1-MQ-MS/DIM-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

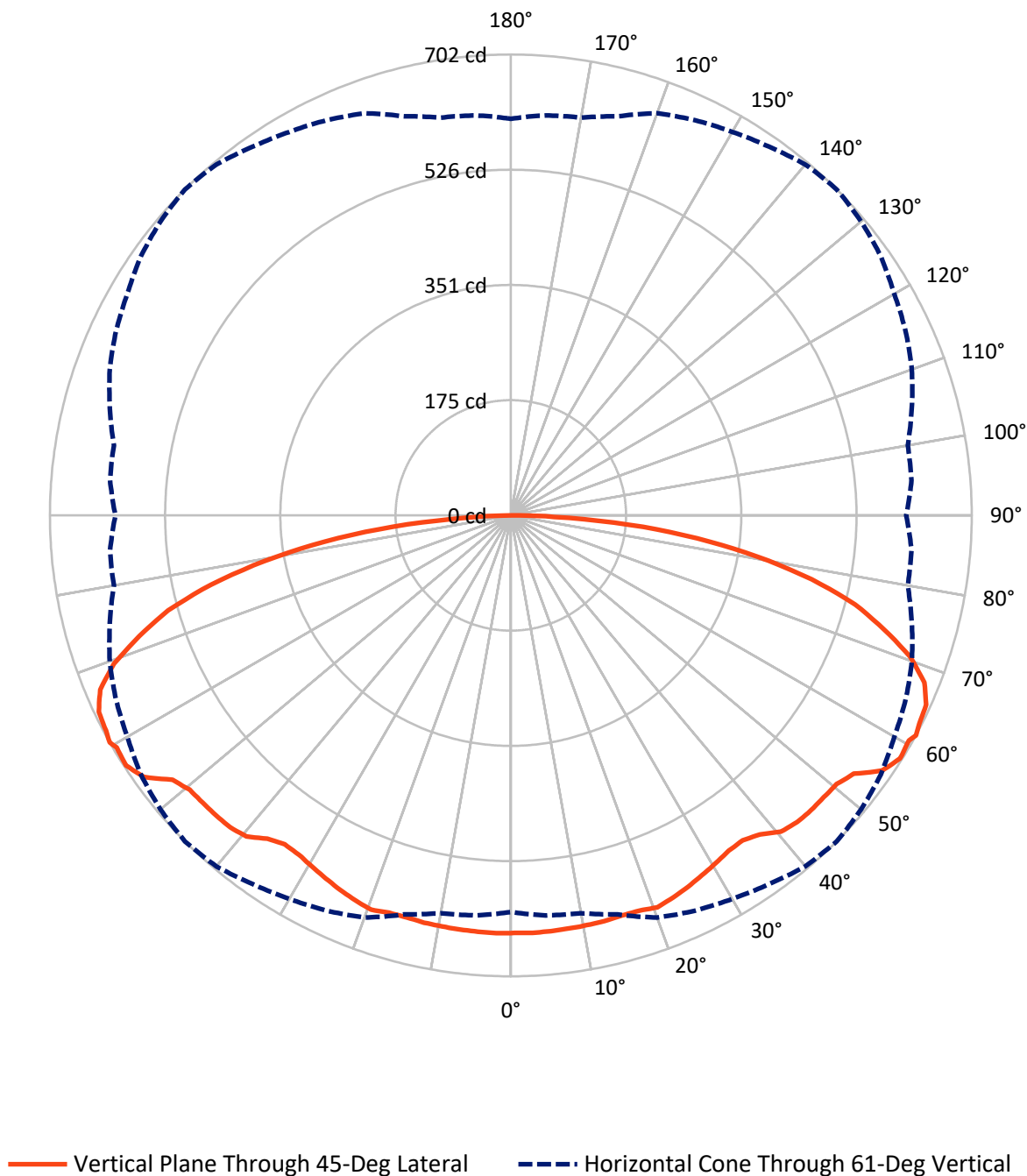


Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
Type V - Short - Semi-Cutoff

REPORT NUMBER: P197605

CATALOG NUMBER: TT-C1-LED-E1-MQ-MS/DIM-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P197605

CATALOG NUMBER: TT-C1-LED-E1-MQ-MS/DIM-8030

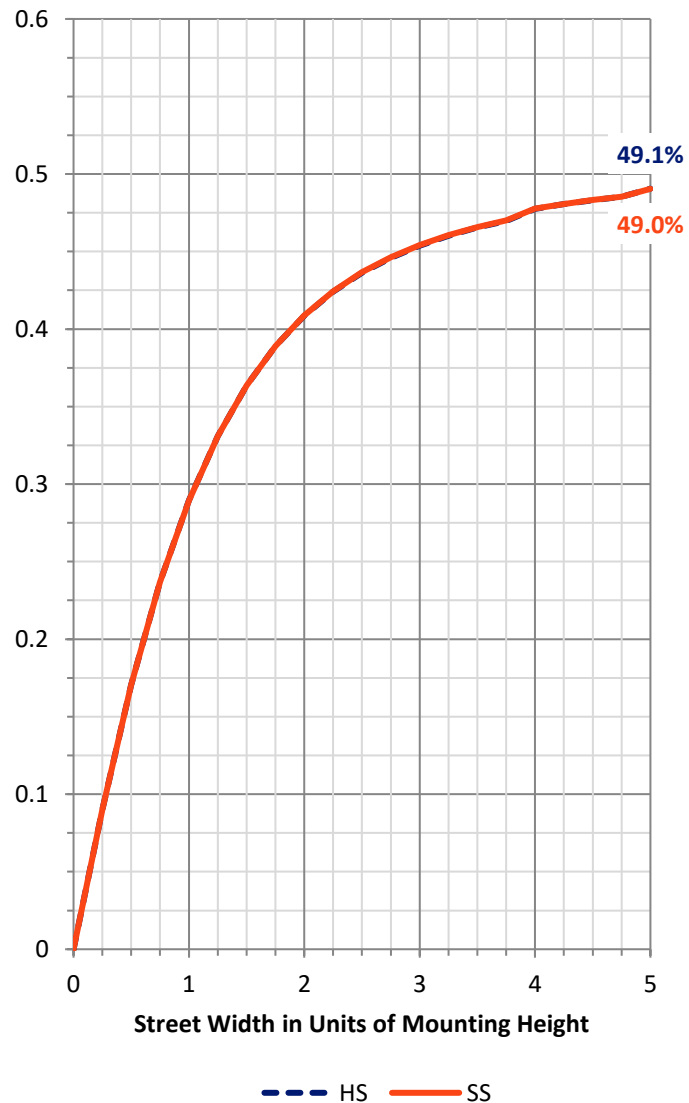
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1640.9	0.0	1640.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1640.9	0.0	1640.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	3281.9	0.0	3281.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	1.8
10°-20°	179.3	5.5
20°-30°	288.6	8.8
30°-40°	382.2	11.6
40°-50°	482.7	14.7
50°-60°	578.4	17.6
60°-70°	632.4	19.3
70°-80°	506.3	15.4
80°-90°	171.3	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°	3281.9	100.0
0°-180°	3281.9	100.0

Coefficient of Utilization



REPORT NUMBER: P197605

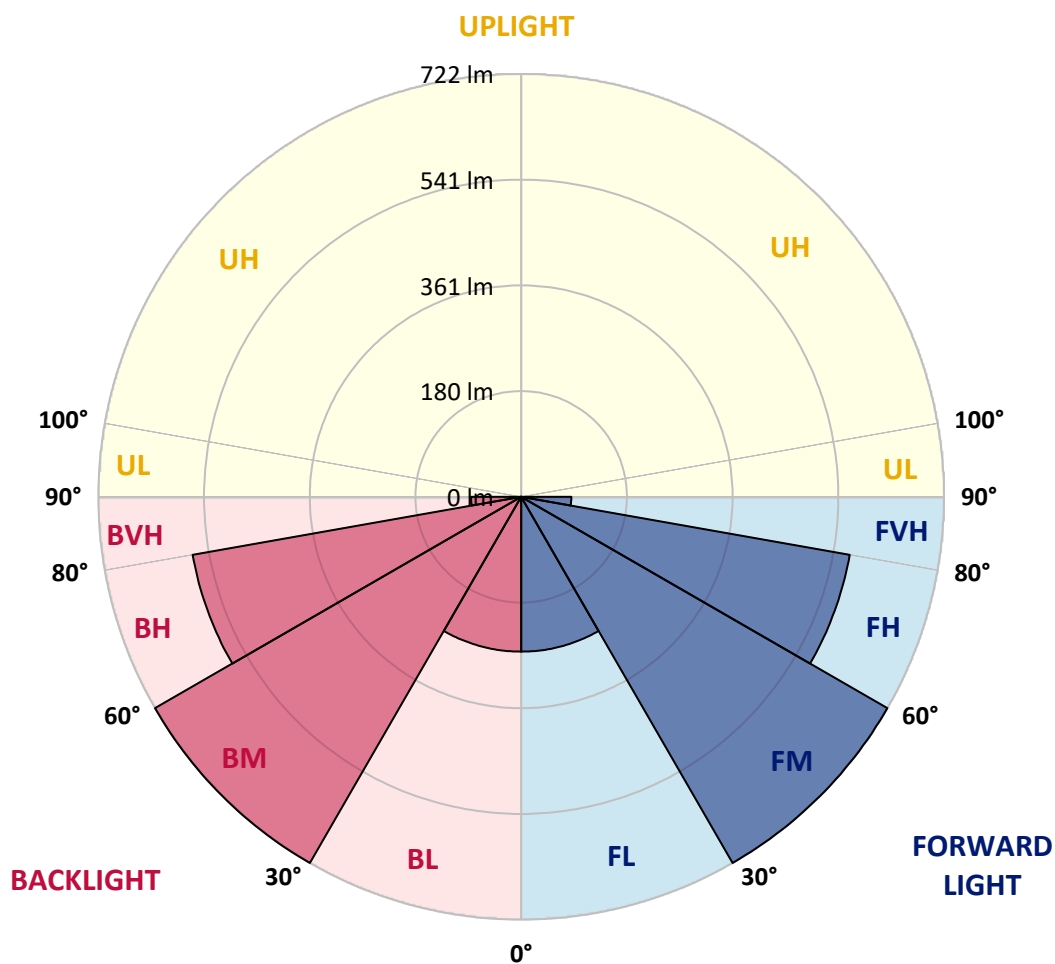
CATALOG NUMBER: TT-C1-LED-E1-MQ-MS/DIM-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	264.3	8.1			
FM	(30°-60°)	721.7	22.0			
FH	(60°-80°)	569.4	17.3			G0/660
FVH	(80°-90°)	85.6	2.6			G1/100
BL	(0°-30°)	264.3	8.1	B1/500		
BM	(30°-60°)	721.7	22.0	B1/1000		
BH	(60°-80°)	569.4	17.3	B2/1000		G0/660
BVH	(80°-90°)	85.6	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: P197605

CATALOG NUMBER: TT-C1-LED-E1-MQ-MS/DIM-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9
2.5°	636.5	635.9	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
5°	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9
7.5°	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.9	635.2	635.9
10°	634.0	634.0	634.0	634.0	634.6	634.6	634.6	634.6	634.6	634.6	634.6
12.5°	632.8	632.8	632.8	632.8	633.4	633.4	633.4	633.4	634.0	634.0	633.4
15°	631.5	631.0	631.0	631.5	631.5	632.2	632.2	632.2	632.8	632.2	632.2
17.5°	630.4	629.7	630.4	631.0	631.0	631.5	632.2	632.2	632.8	632.8	632.8
20°	632.2	631.5	632.2	632.8	633.4	634.6	635.2	635.9	636.5	637.0	637.0
22.5°	628.5	627.9	628.5	628.5	629.1	629.7	631.0	631.5	632.2	632.2	632.2
25°	623.0	623.0	623.6	623.6	624.2	624.8	625.5	626.0	626.0	626.7	626.0
27.5°	616.9	616.9	617.5	617.5	618.7	618.7	619.3	620.0	620.5	620.5	620.5
30°	609.5	609.5	610.2	610.8	612.0	612.6	613.2	613.8	614.5	614.5	614.5
32.5°	602.8	602.2	602.8	604.0	605.9	607.1	608.3	609.0	609.0	609.0	609.5
35°	597.3	598.0	599.1	600.4	602.8	604.0	605.3	607.1	607.7	607.7	607.7
37.5°	598.5	599.1	601.0	603.5	606.5	610.2	612.6	615.0	616.9	616.3	615.7
40°	606.5	607.7	610.8	614.5	619.3	624.2	627.9	631.0	632.8	633.4	632.8
42.5°	607.7	609.0	611.4	616.9	622.4	627.9	632.8	635.9	638.3	638.9	638.3
45°	607.1	607.1	610.8	616.9	622.4	627.9	634.0	638.3	640.7	640.7	640.7
47.5°	602.8	604.7	607.1	613.2	620.5	626.0	632.2	636.5	639.5	641.4	639.5
50°	602.8	602.8	607.1	611.4	618.1	627.9	636.5	640.7	643.8	643.2	643.8
52.5°	601.6	605.3	607.7	613.8	626.0	635.9	642.5	648.7	653.0	653.6	652.4
55°	612.6	613.2	618.7	630.4	642.0	653.0	665.2	674.4	681.7	686.0	679.9
57.5°	621.2	618.1	629.1	638.9	652.4	668.9	687.2	694.5	700.0	698.8	700.6
60°	609.5	613.8	621.8	632.2	653.6	670.1	679.9	687.8	694.5	696.4	694.0
61°	604.0	611.4	615.0	629.1	651.7	664.0	674.4	685.4	697.6	701.9	696.4
62.5°	594.9	606.5	605.3	627.9	642.0	656.0	675.6	688.4	697.0	698.2	697.0
65°	595.5	593.6	607.7	624.2	638.3	663.4	679.9	687.8	692.7	695.1	694.0
67.5°	575.9	569.8	587.0	598.5	622.4	642.0	657.9	669.5	676.8	679.3	676.2
70°	530.7	535.0	547.2	564.9	584.5	608.3	623.0	638.3	644.4	645.0	645.0
72.5°	487.3	489.7	502.0	518.5	541.1	561.9	576.5	588.8	594.3	594.9	596.1
75°	429.8	432.2	446.3	461.6	484.2	502.0	512.3	527.0	535.0	541.7	536.2
77.5°	363.1	367.5	378.5	395.0	415.7	425.6	443.9	461.0	466.5	468.3	466.5
80°	288.0	293.5	303.2	325.2	334.4	350.3	368.1	375.4	380.3	381.5	382.1
82.5°	207.2	211.6	221.9	237.2	247.6	260.5	272.7	281.8	287.3	286.2	285.5
85°	122.3	123.5	134.5	144.9	152.8	160.8	170.6	177.3	178.5	181.0	180.4
87.5°	36.7	37.3	42.2	47.7	51.3	55.0	61.2	69.1	70.9	66.0	66.7
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: P197605

CATALOG NUMBER: TT-C1-LED-E1-MQ-MS/DIM-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9
2.5°	636.5	636.5	636.5	636.5	636.5	636.5	635.9	636.5
5°	635.9	635.9	635.9	635.9	635.9	635.9	635.9	635.9
7.5°	635.9	635.2	635.2	635.2	635.2	635.2	635.2	635.2
10°	634.6	634.6	634.6	634.6	634.0	634.0	634.0	634.0
12.5°	633.4	633.4	633.4	633.4	632.8	632.8	632.8	632.8
15°	632.2	632.2	632.2	632.2	631.5	631.5	631.5	631.5
17.5°	632.8	632.2	631.5	631.5	631.0	630.4	630.4	630.4
20°	636.5	635.9	634.6	633.4	632.8	632.2	632.2	632.2
22.5°	631.5	631.0	629.7	629.1	629.1	628.5	627.9	627.9
25°	626.0	624.8	624.8	624.2	624.2	623.0	623.0	622.4
27.5°	620.0	619.3	618.7	618.1	618.1	617.5	616.9	616.3
30°	614.5	613.2	612.0	611.4	610.8	610.2	610.2	610.2
32.5°	609.0	607.7	607.1	605.3	604.0	603.5	602.8	602.8
35°	607.1	605.3	604.0	602.2	600.4	599.1	598.5	597.3
37.5°	614.5	612.0	610.2	607.1	602.8	601.0	599.1	598.5
40°	630.4	627.9	624.2	619.3	614.5	610.8	607.7	606.5
42.5°	635.9	632.8	627.9	623.0	616.9	611.4	609.0	607.7
45°	637.7	634.6	627.9	621.8	616.3	611.4	607.7	606.5
47.5°	635.9	631.5	625.5	620.5	612.6	606.5	604.0	602.2
50°	640.1	636.5	628.5	617.5	610.8	607.1	602.8	602.2
52.5°	648.7	642.0	634.6	626.7	613.8	606.5	604.0	601.0
55°	674.4	665.2	652.4	639.5	631.5	620.0	612.6	612.6
57.5°	694.0	686.6	670.1	653.0	638.3	629.7	618.7	619.3
60°	688.4	678.6	670.7	653.6	632.8	621.2	616.9	609.0
61°	687.8	674.4	663.4	649.9	632.2	613.8	612.6	602.2
62.5°	689.0	676.8	656.0	642.0	628.5	604.7	604.0	594.3
65°	687.8	676.2	665.8	639.5	621.2	611.4	590.6	598.5
67.5°	668.9	658.5	639.5	624.8	596.7	584.5	572.9	572.9
70°	638.9	623.6	605.3	587.0	568.0	547.2	536.8	530.7
72.5°	588.8	575.9	561.3	541.7	518.5	499.5	489.7	485.5
75°	525.8	511.7	498.9	484.2	459.8	443.9	433.5	430.4
77.5°	459.8	447.6	424.9	410.9	394.3	376.0	366.8	363.1
80°	375.4	368.6	352.8	330.1	322.2	299.6	293.5	288.0
82.5°	281.8	274.5	259.8	243.9	234.2	221.3	210.3	209.1
85°	177.3	172.4	163.2	151.6	139.4	132.1	122.3	124.7
87.5°	66.0	63.0	57.5	50.2	44.6	39.7	34.8	36.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)