

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: P197584

Luminaire Tested: **TT-C1-LED-E1-MQ-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115393)
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-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3230.4 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full 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

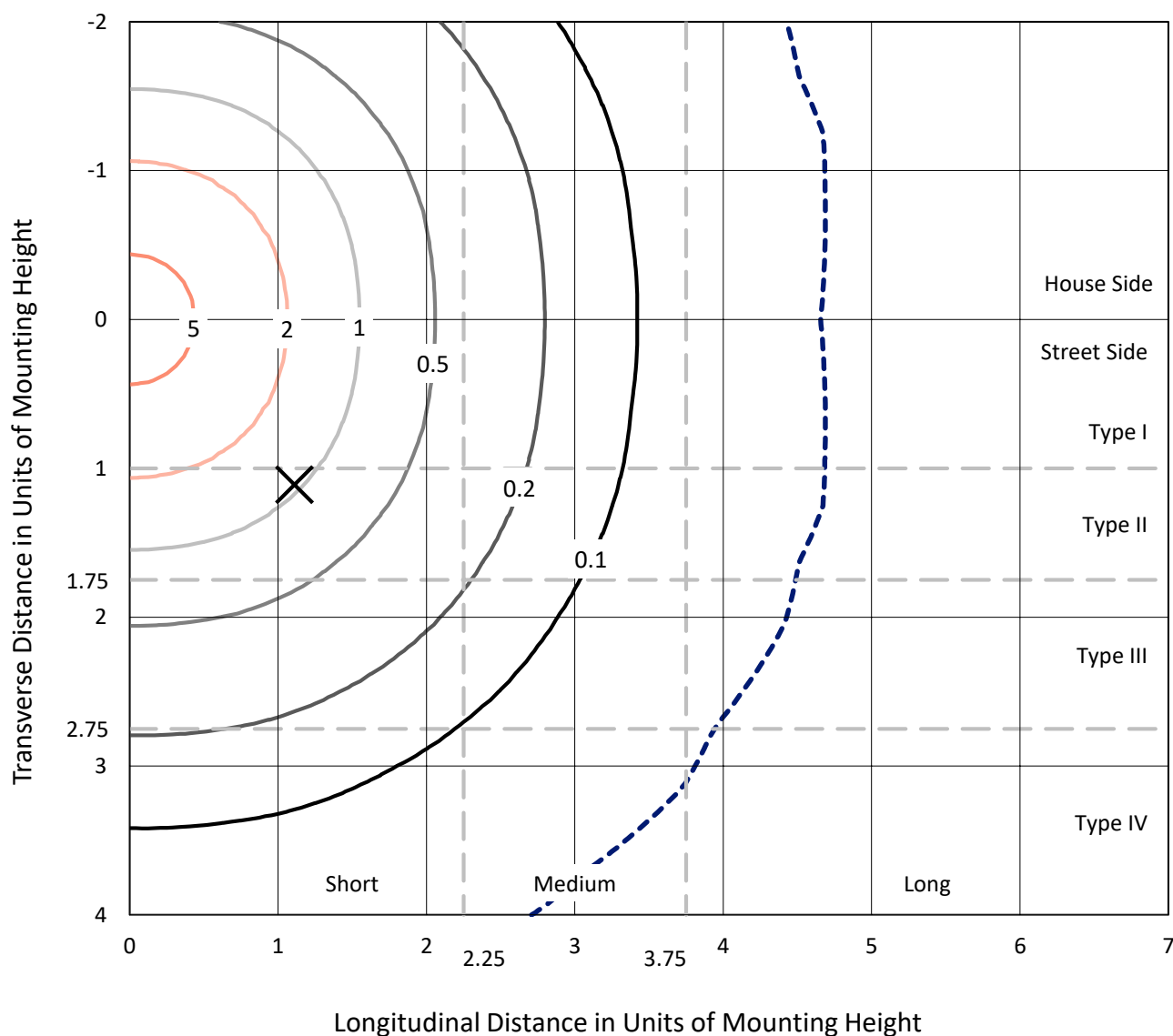


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

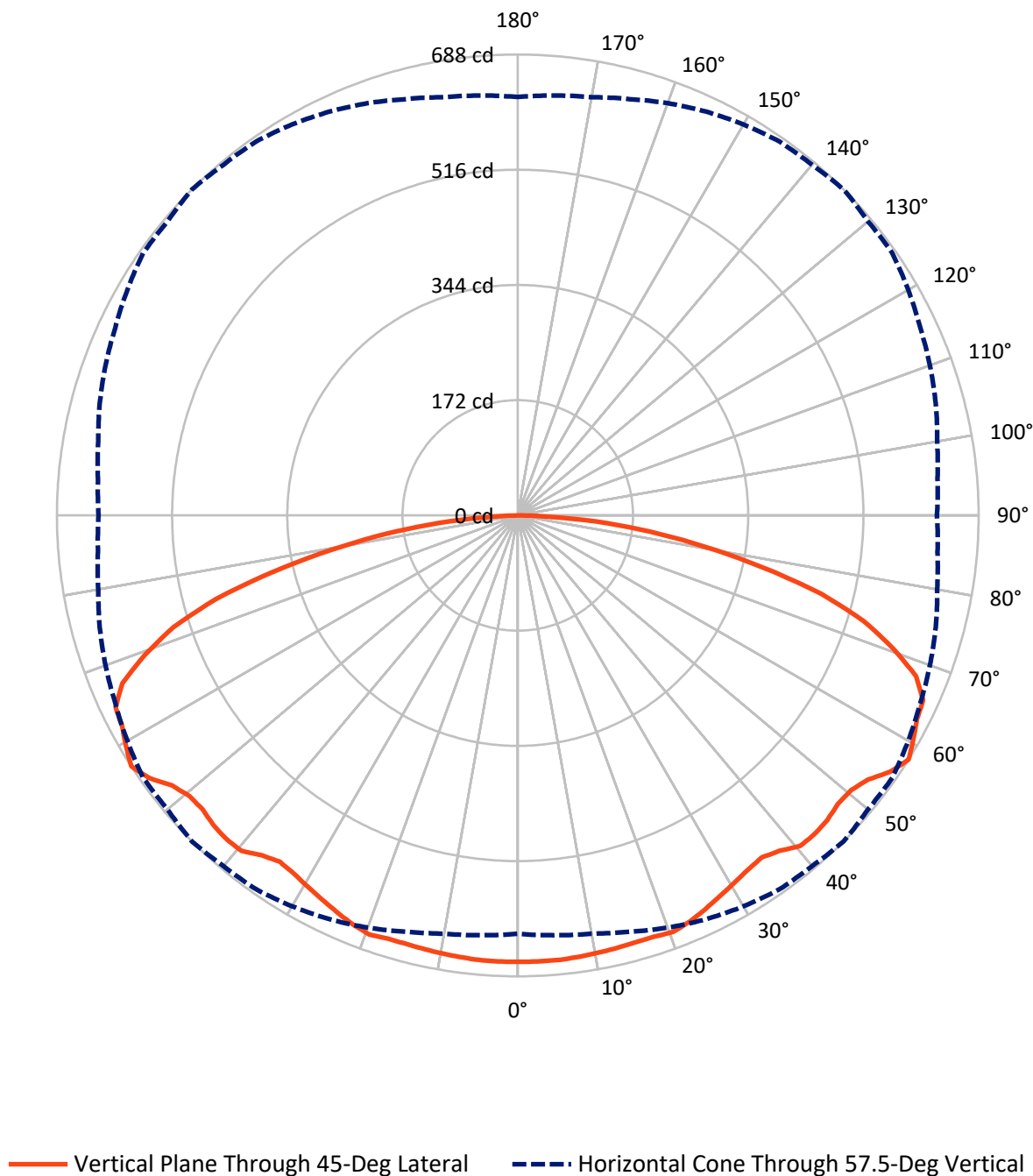


Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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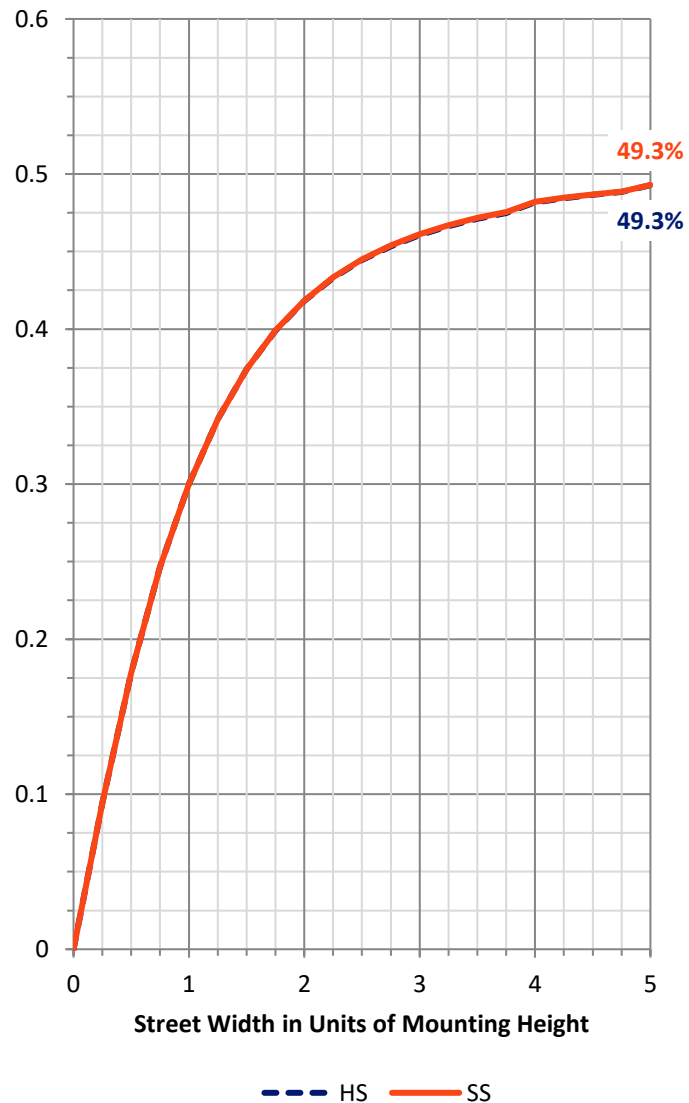
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1615.2	0.0	1615.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1615.2	0.0	1615.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	3230.4	0.0	3230.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	2.0
10°-20°	187.3	5.8
20°-30°	300.0	9.3
30°-40°	394.9	12.2
40°-50°	491.8	15.2
50°-60°	579.4	17.9
60°-70°	616.0	19.1
70°-80°	461.9	14.3
80°-90°	135.6	4.2
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°	3230.4	100.0
0°-180°	3230.4	100.0

Coefficient of Utilization



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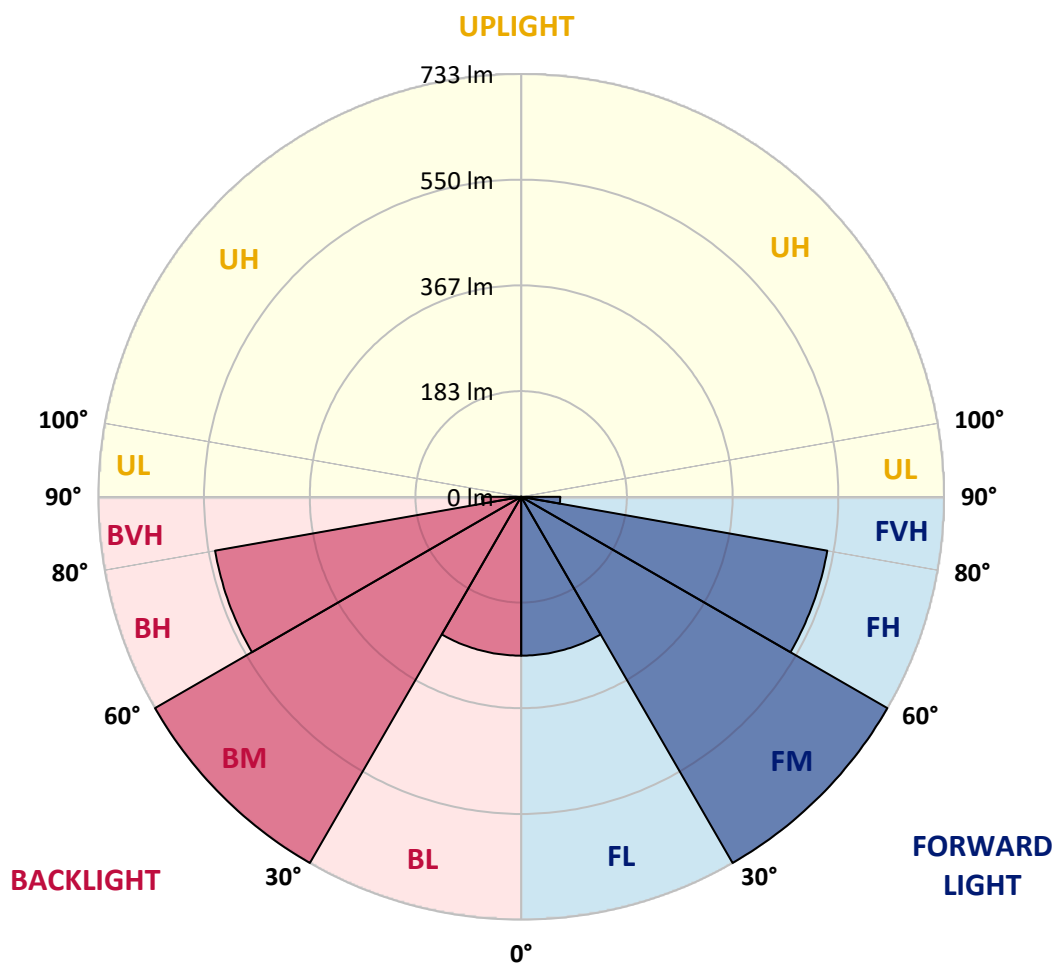
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	275.4	8.5			
FM	(30°-60°)	733.1	22.7			
FH	(60°-80°)	538.9	16.7			G0/660
FVH	(80°-90°)	67.8	2.1			G1/100
BL	(0°-30°)	275.4	8.5	B1/500		
BM	(30°-60°)	733.1	22.7	B1/1000		
BH	(60°-80°)	538.9	16.7	B2/1000		G0/660
BVH	(80°-90°)	67.8	2.1			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°	666.3	666.3	666.3	666.3	666.3	666.3	666.3	666.3	666.3	666.3	666.3
2.5°	665.7	665.7	665.7	666.3	666.3	666.3	666.3	666.3	666.3	666.3	666.3
5°	665.7	665.7	665.7	665.7	665.7	665.7	666.3	666.3	666.3	666.3	666.3
7.5°	664.3	664.3	664.3	664.3	664.3	665.0	665.0	665.0	665.0	665.0	665.0
10°	663.0	663.0	663.0	663.0	663.6	663.6	663.6	663.6	663.6	663.6	663.6
12.5°	661.6	661.6	660.9	661.6	661.6	661.6	662.3	662.3	662.3	662.3	662.3
15°	658.9	658.9	659.6	659.6	660.3	660.3	660.3	660.3	660.9	660.9	660.9
17.5°	657.5	657.5	658.2	658.9	658.9	659.6	660.3	660.3	660.9	660.9	660.9
20°	659.6	659.6	659.6	660.3	660.9	661.6	662.3	663.0	663.0	663.6	663.0
22.5°	655.5	655.5	655.5	656.2	656.2	656.2	656.9	657.5	657.5	658.2	657.5
25°	648.1	648.1	648.8	648.8	649.4	649.4	650.1	650.1	650.1	650.8	650.8
27.5°	640.6	640.0	641.3	641.3	642.0	642.0	642.7	643.3	643.3	643.3	644.0
30°	632.5	632.5	633.2	633.2	633.9	634.5	635.2	635.9	635.9	636.6	636.6
32.5°	623.7	624.4	625.1	625.8	626.4	627.8	628.5	629.1	629.8	630.5	629.8
35°	617.6	618.3	619.0	620.3	622.4	623.7	625.1	626.4	627.1	627.1	627.1
37.5°	619.0	619.7	621.0	623.7	627.1	629.1	631.8	633.9	634.5	635.2	635.2
40°	626.4	627.8	629.8	633.2	637.3	640.6	644.7	646.7	648.1	648.8	648.1
42.5°	625.8	627.8	629.8	633.9	638.6	642.0	646.0	648.1	649.4	650.1	649.4
45°	623.7	625.1	627.1	631.2	634.5	639.3	643.3	645.4	647.4	648.1	647.4
47.5°	619.0	619.0	619.7	623.7	628.5	634.5	637.9	641.3	643.3	643.3	643.3
50°	612.9	615.6	617.0	622.4	627.1	632.5	638.6	643.3	644.0	644.7	644.0
52.5°	612.9	613.6	618.3	621.7	631.2	639.3	645.4	650.1	654.2	654.8	654.8
55°	623.7	625.1	627.8	635.9	643.3	655.5	665.7	669.7	672.4	675.1	672.4
57.5°	624.4	629.1	633.9	643.3	654.8	665.0	673.8	681.2	683.3	688.0	682.6
60°	616.3	617.6	622.4	633.9	648.8	659.6	667.7	674.5	681.2	678.5	681.2
62.5°	603.4	606.8	613.6	622.4	634.5	647.4	659.6	661.6	671.8	669.0	673.1
65°	593.3	596.0	602.8	615.6	630.5	638.6	652.1	660.3	659.6	665.0	658.9
67.5°	568.3	570.3	576.4	589.2	603.4	615.6	619.7	632.5	633.9	641.3	634.5
70°	527.0	531.7	540.5	552.7	564.2	574.3	581.8	588.5	592.6	594.0	592.6
72.5°	475.6	483.0	489.8	501.3	512.8	519.5	524.3	533.8	536.5	540.5	539.2
75°	422.8	422.8	429.6	438.4	447.2	451.2	453.9	460.0	463.4	468.1	464.1
77.5°	350.4	354.5	360.6	368.0	366.7	368.7	368.7	372.1	370.7	374.1	376.8
80°	274.7	278.7	284.1	289.5	288.9	284.1	287.5	283.4	282.1	282.8	284.8
82.5°	196.2	198.9	203.6	207.0	207.0	203.6	205.0	200.9	202.3	198.9	201.6
85°	112.3	115.7	119.1	122.4	122.4	120.4	122.4	117.0	117.7	117.7	117.7
87.5°	27.7	30.4	31.8	33.8	32.5	35.9	37.9	34.5	35.2	33.8	35.9
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°	666.3	666.3	666.3	666.3	666.3	666.3	666.3	666.3
2.5°	666.3	665.7	666.3	666.3	666.3	666.3	665.7	665.7
5°	666.3	666.3	666.3	665.7	665.7	665.7	665.7	665.7
7.5°	665.0	665.0	665.0	664.3	664.3	664.3	664.3	664.3
10°	663.6	663.6	663.0	663.0	663.0	663.0	663.0	663.0
12.5°	662.3	662.3	661.6	661.6	661.6	661.6	661.6	660.9
15°	660.9	660.9	660.3	660.3	659.6	659.6	658.9	658.9
17.5°	660.9	660.3	659.6	658.9	658.9	658.2	657.5	657.5
20°	663.0	662.3	661.6	660.9	660.3	659.6	659.6	658.9
22.5°	657.5	656.9	656.2	656.2	655.5	655.5	655.5	654.8
25°	650.8	650.1	650.1	648.8	648.8	648.1	648.1	647.4
27.5°	643.3	642.7	642.7	642.0	641.3	640.6	640.0	640.0
30°	635.9	635.2	635.2	634.5	633.2	633.2	632.5	631.8
32.5°	629.1	629.1	628.5	627.1	625.8	625.1	623.7	623.7
35°	627.1	625.8	624.4	622.4	620.3	619.0	618.3	617.6
37.5°	634.5	632.5	629.1	627.1	624.4	621.7	620.3	619.0
40°	647.4	644.0	640.6	637.3	633.2	629.8	627.1	626.4
42.5°	648.1	646.0	642.7	638.6	633.9	629.8	627.1	626.4
45°	646.0	643.3	639.3	634.5	631.2	626.4	624.4	623.7
47.5°	641.3	638.6	634.5	627.8	623.0	619.7	619.0	619.0
50°	644.0	638.6	631.8	627.8	623.0	617.6	615.6	614.3
52.5°	650.1	644.7	640.6	631.8	621.7	617.0	614.3	612.2
55°	669.7	667.0	654.8	642.7	635.2	629.1	626.4	625.1
57.5°	682.6	673.1	663.0	654.8	646.0	635.9	629.1	625.8
60°	675.8	665.7	660.9	650.1	631.8	621.0	617.0	614.9
62.5°	660.9	660.9	648.1	631.2	624.4	614.9	607.5	604.8
65°	660.3	651.5	638.6	632.5	616.3	602.1	594.6	593.3
67.5°	631.8	619.7	616.3	602.8	589.2	576.4	571.0	568.3
70°	588.5	584.5	574.3	565.5	553.4	539.8	532.4	529.7
72.5°	533.8	527.0	522.2	514.8	503.3	486.4	480.3	476.9
75°	459.3	456.0	456.0	447.8	437.0	426.9	426.2	424.8
77.5°	369.4	370.7	374.1	365.3	368.7	363.3	358.5	355.2
80°	280.7	286.8	287.5	289.5	291.6	284.1	280.7	276.7
82.5°	199.6	202.9	207.0	207.7	209.0	203.6	200.9	196.9
85°	117.7	119.7	123.1	123.1	123.1	118.4	117.0	113.7
87.5°	34.5	34.5	36.5	34.5	34.5	34.5	31.1	33.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)