

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: P197702

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197702
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
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3481.3 lumens
Efficiency: N/A
Efficacy: 124.3 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



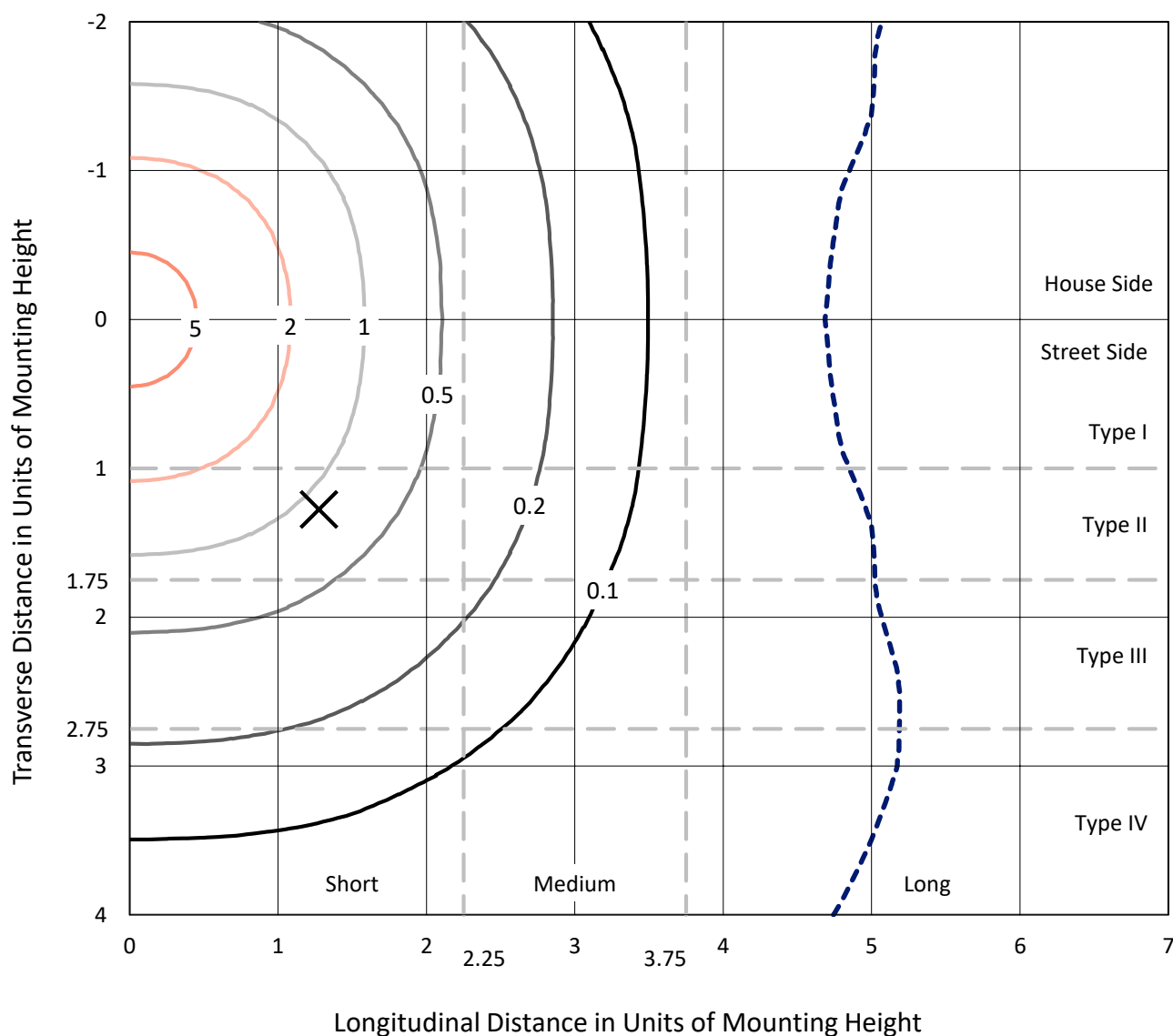
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

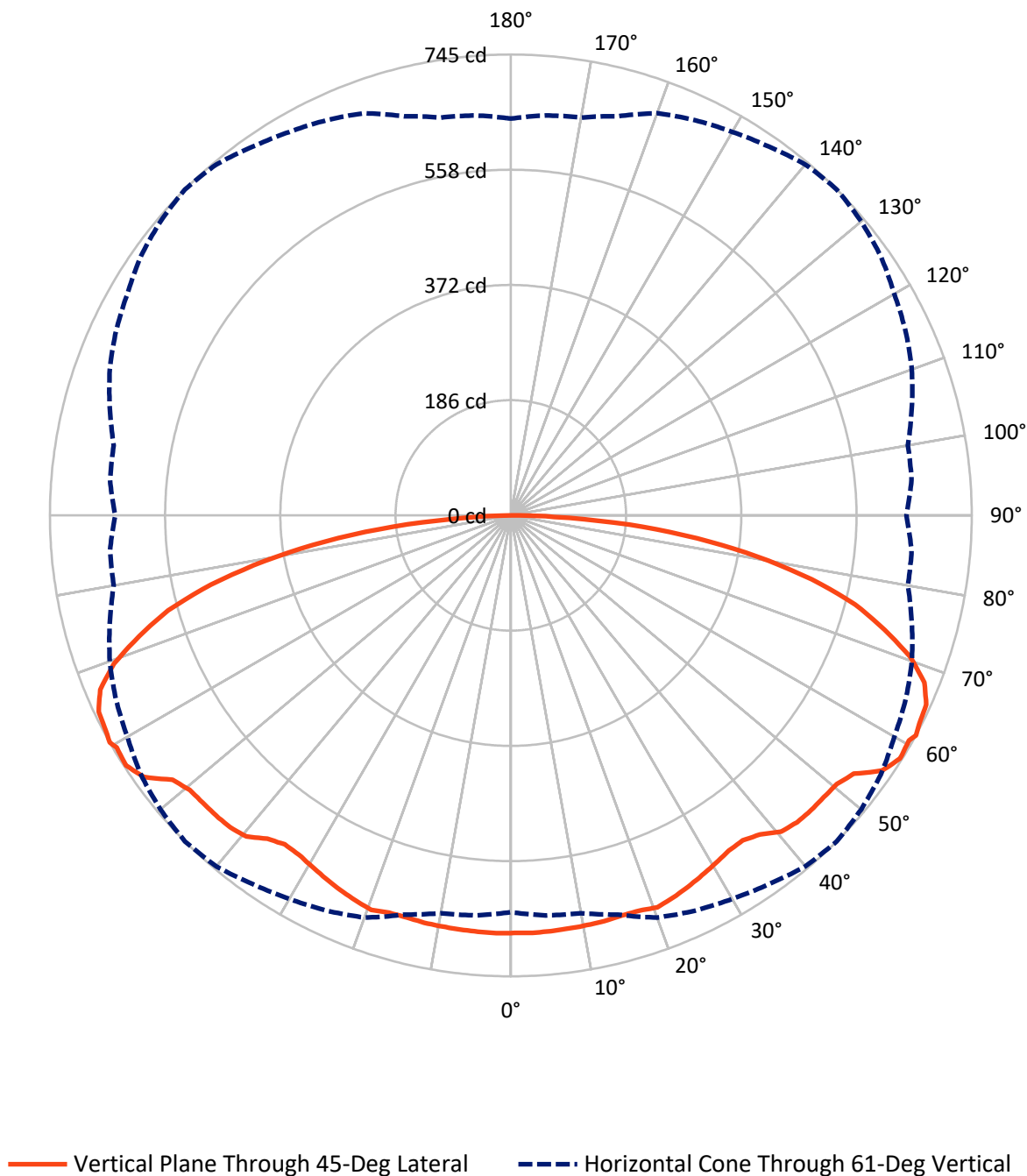


Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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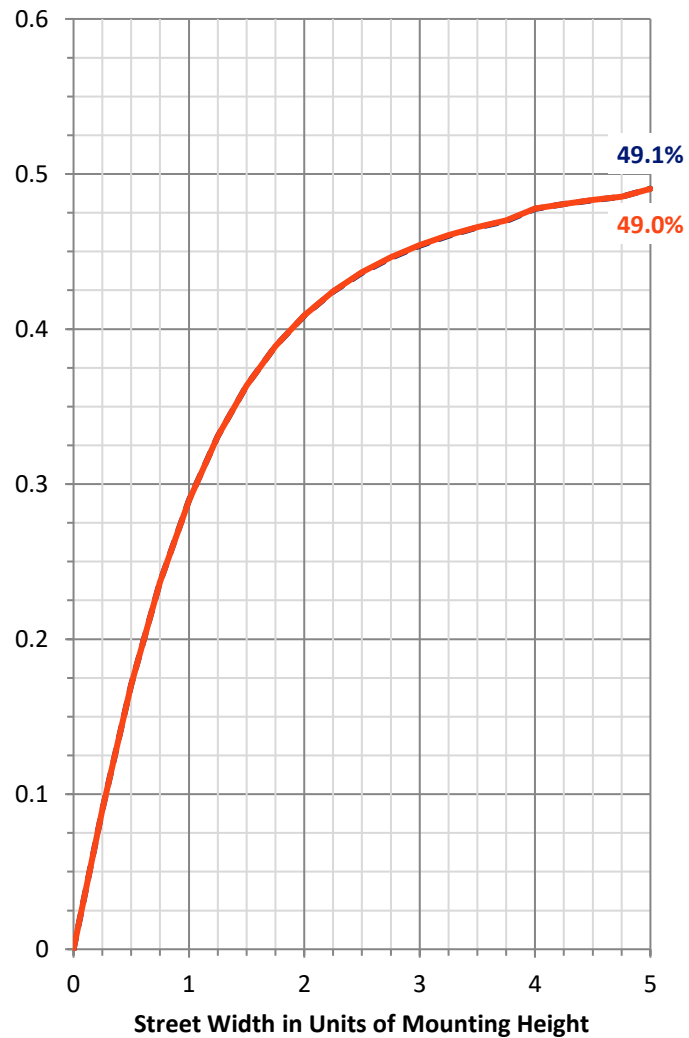
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1740.6	0.0	1740.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1740.6	0.0	1740.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	3481.3	0.0	3481.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	1.8
10°-20°	190.2	5.5
20°-30°	306.1	8.8
30°-40°	405.5	11.6
40°-50°	512.0	14.7
50°-60°	613.5	17.6
60°-70°	670.9	19.3
70°-80°	537.0	15.4
80°-90°	181.7	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°	3481.3	100.0
0°-180°	3481.3	100.0

Coefficient of Utilization



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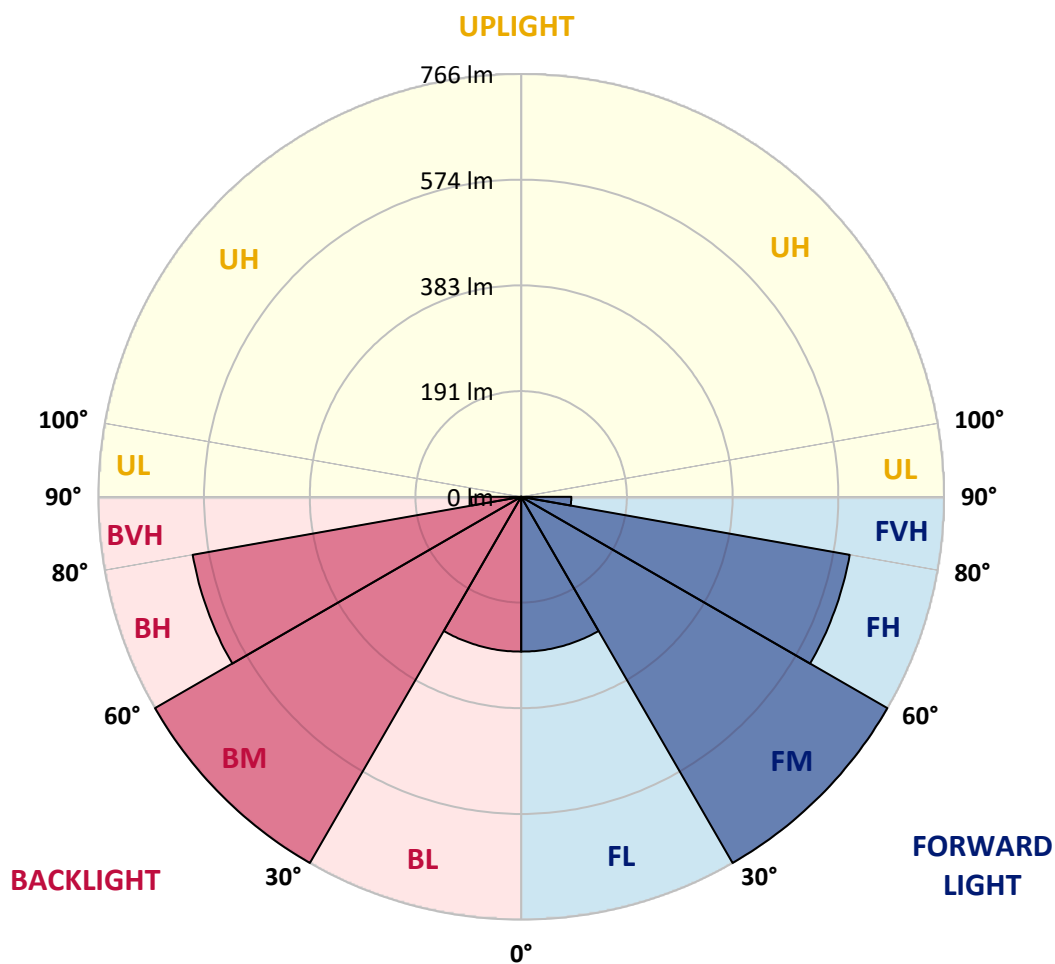
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	280.3	8.1			
FM	(30°-60°)	765.5	22.0			
FH	(60°-80°)	603.9	17.3			G0/660
FVH	(80°-90°)	90.8	2.6			G1/100
BL	(0°-30°)	280.3	8.1	B1/500		
BM	(30°-60°)	765.5	22.0	B1/1000		
BH	(60°-80°)	603.9	17.3	B2/1000		G0/660
BVH	(80°-90°)	90.8	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°	674.5	674.5	674.5	674.5	674.5	674.5	674.5	674.5	674.5	674.5	674.5
2.5°	675.1	674.5	675.1	675.1	675.1	675.1	675.1	675.1	675.1	675.1	675.1
5°	674.5	674.5	674.5	674.5	674.5	674.5	674.5	674.5	674.5	674.5	674.5
7.5°	673.8	673.8	673.8	673.8	673.8	673.8	673.8	673.8	674.5	673.8	674.5
10°	672.6	672.6	672.6	672.6	673.1	673.1	673.1	673.1	673.1	673.1	673.1
12.5°	671.2	671.2	671.2	671.2	671.9	671.9	671.9	671.9	672.6	672.6	671.9
15°	669.9	669.3	669.3	669.9	669.9	670.6	670.6	670.6	671.2	670.6	670.6
17.5°	668.6	668.0	668.6	669.3	669.3	669.9	670.6	670.6	671.2	671.2	671.2
20°	670.6	669.9	670.6	671.2	671.9	673.1	673.8	674.5	675.1	675.8	675.8
22.5°	666.7	666.1	666.7	666.7	667.4	668.0	669.3	669.9	670.6	670.6	670.6
25°	660.9	660.9	661.5	661.5	662.2	662.8	663.4	664.1	664.1	664.7	664.1
27.5°	654.4	654.4	655.0	655.0	656.3	656.3	657.0	657.6	658.2	658.2	658.2
30°	646.6	646.6	647.2	647.9	649.2	649.8	650.5	651.2	651.8	651.8	651.8
32.5°	639.5	638.8	639.5	640.8	642.7	644.0	645.3	646.0	646.0	646.0	646.6
35°	633.6	634.3	635.6	636.8	639.5	640.8	642.0	644.0	644.7	644.7	644.7
37.5°	634.9	635.6	637.5	640.1	643.3	647.2	649.8	652.4	654.4	653.7	653.1
40°	643.3	644.7	647.9	651.8	657.0	662.2	666.1	669.3	671.2	671.9	671.2
42.5°	644.7	646.0	648.5	654.4	660.2	666.1	671.2	674.5	677.1	677.7	677.1
45°	644.0	644.0	647.9	654.4	660.2	666.1	672.6	677.1	679.6	679.6	679.6
47.5°	639.5	641.4	644.0	650.5	658.2	664.1	670.6	675.1	678.3	680.3	678.3
50°	639.5	639.5	644.0	648.5	655.7	666.1	675.1	679.6	682.9	682.3	682.9
52.5°	638.1	642.0	644.7	651.2	664.1	674.5	681.6	688.1	692.7	693.3	692.0
55°	649.8	650.5	656.3	668.6	681.0	692.7	705.6	715.3	723.1	727.7	721.1
57.5°	658.9	655.7	667.4	677.7	692.0	709.5	729.0	736.7	742.6	741.2	743.2
60°	646.6	651.2	659.6	670.6	693.3	710.8	721.1	729.6	736.7	738.7	736.1
61°	640.8	648.5	652.4	667.4	691.3	704.3	715.3	727.0	740.0	744.5	738.7
62.5°	631.1	643.3	642.0	666.1	681.0	695.9	716.6	730.3	739.3	740.7	739.3
65°	631.6	629.7	644.7	662.2	677.1	703.7	721.1	729.6	734.8	737.4	736.1
67.5°	610.9	604.5	622.6	634.9	660.2	681.0	697.8	710.1	717.9	720.5	717.3
70°	563.0	567.5	580.4	599.3	620.0	645.3	660.9	677.1	683.5	684.2	684.2
72.5°	516.9	519.5	532.4	550.0	573.9	596.0	611.6	624.6	630.4	631.1	632.3
75°	455.9	458.5	473.5	489.7	513.6	532.4	543.5	559.0	567.5	574.6	568.7
77.5°	385.2	389.8	401.4	419.0	441.0	451.4	470.8	489.0	494.9	496.8	494.9
80°	305.5	311.3	321.7	345.0	354.7	371.6	390.4	398.2	403.4	404.7	405.4
82.5°	219.9	224.4	235.4	251.6	262.7	276.3	289.3	299.0	304.8	303.5	302.9
85°	129.7	131.0	142.7	153.7	162.1	170.5	180.9	188.1	189.4	191.9	191.3
87.5°	38.9	39.5	44.7	50.6	54.5	58.4	64.9	73.3	75.3	70.1	70.7
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°	674.5	674.5	674.5	674.5	674.5	674.5	674.5	674.5
2.5°	675.1	675.1	675.1	675.1	675.1	675.1	674.5	675.1
5°	674.5	674.5	674.5	674.5	674.5	674.5	674.5	674.5
7.5°	674.5	673.8	673.8	673.8	673.8	673.8	673.8	673.8
10°	673.1	673.1	673.1	673.1	672.6	672.6	672.6	672.6
12.5°	671.9	671.9	671.9	671.9	671.2	671.2	671.2	671.2
15°	670.6	670.6	670.6	670.6	669.9	669.9	669.9	669.9
17.5°	671.2	670.6	669.9	669.9	669.3	668.6	668.6	668.6
20°	675.1	674.5	673.1	671.9	671.2	670.6	670.6	670.6
22.5°	669.9	669.3	668.0	667.4	667.4	666.7	666.1	666.1
25°	664.1	662.8	662.8	662.2	662.2	660.9	660.9	660.2
27.5°	657.6	657.0	656.3	655.7	655.7	655.0	654.4	653.7
30°	651.8	650.5	649.2	648.5	647.9	647.2	647.2	647.2
32.5°	646.0	644.7	644.0	642.0	640.8	640.1	639.5	639.5
35°	644.0	642.0	640.8	638.8	636.8	635.6	634.9	633.6
37.5°	651.8	649.2	647.2	644.0	639.5	637.5	635.6	634.9
40°	668.6	666.1	662.2	657.0	651.8	647.9	644.7	643.3
42.5°	674.5	671.2	666.1	660.9	654.4	648.5	646.0	644.7
45°	676.4	673.1	666.1	659.6	653.7	648.5	644.7	643.3
47.5°	674.5	669.9	663.4	658.2	649.8	643.3	640.8	638.8
50°	679.0	675.1	666.7	655.0	647.9	644.0	639.5	638.8
52.5°	688.1	681.0	673.1	664.7	651.2	643.3	640.8	637.5
55°	715.3	705.6	692.0	678.3	669.9	657.6	649.8	649.8
57.5°	736.1	728.3	710.8	692.7	677.1	668.0	656.3	657.0
60°	730.3	719.9	711.4	693.3	671.2	658.9	654.4	646.0
61°	729.6	715.3	703.7	689.4	670.6	651.2	649.8	638.8
62.5°	730.9	717.9	695.9	681.0	666.7	641.4	640.8	630.4
65°	729.6	717.3	706.2	678.3	658.9	648.5	626.5	634.9
67.5°	709.5	698.5	678.3	662.8	633.0	620.0	607.7	607.7
70°	677.7	661.5	642.0	622.6	602.5	580.4	569.4	563.0
72.5°	624.6	610.9	595.3	574.6	550.0	529.9	519.5	515.0
75°	557.8	542.8	529.2	513.6	487.7	470.8	459.8	456.6
77.5°	487.7	474.7	450.7	435.8	418.3	398.9	389.1	385.2
80°	398.2	391.0	374.2	350.2	341.8	317.8	311.3	305.5
82.5°	299.0	291.2	275.6	258.8	248.4	234.8	223.1	221.8
85°	188.1	182.9	173.2	160.8	147.9	140.1	129.7	132.3
87.5°	70.1	66.8	60.9	53.2	47.3	42.2	37.0	38.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)