

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: P197707

Luminaire Tested: **TT-C2-LED-E1-MQ-CG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197707
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-C2-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: 4002.6 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

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



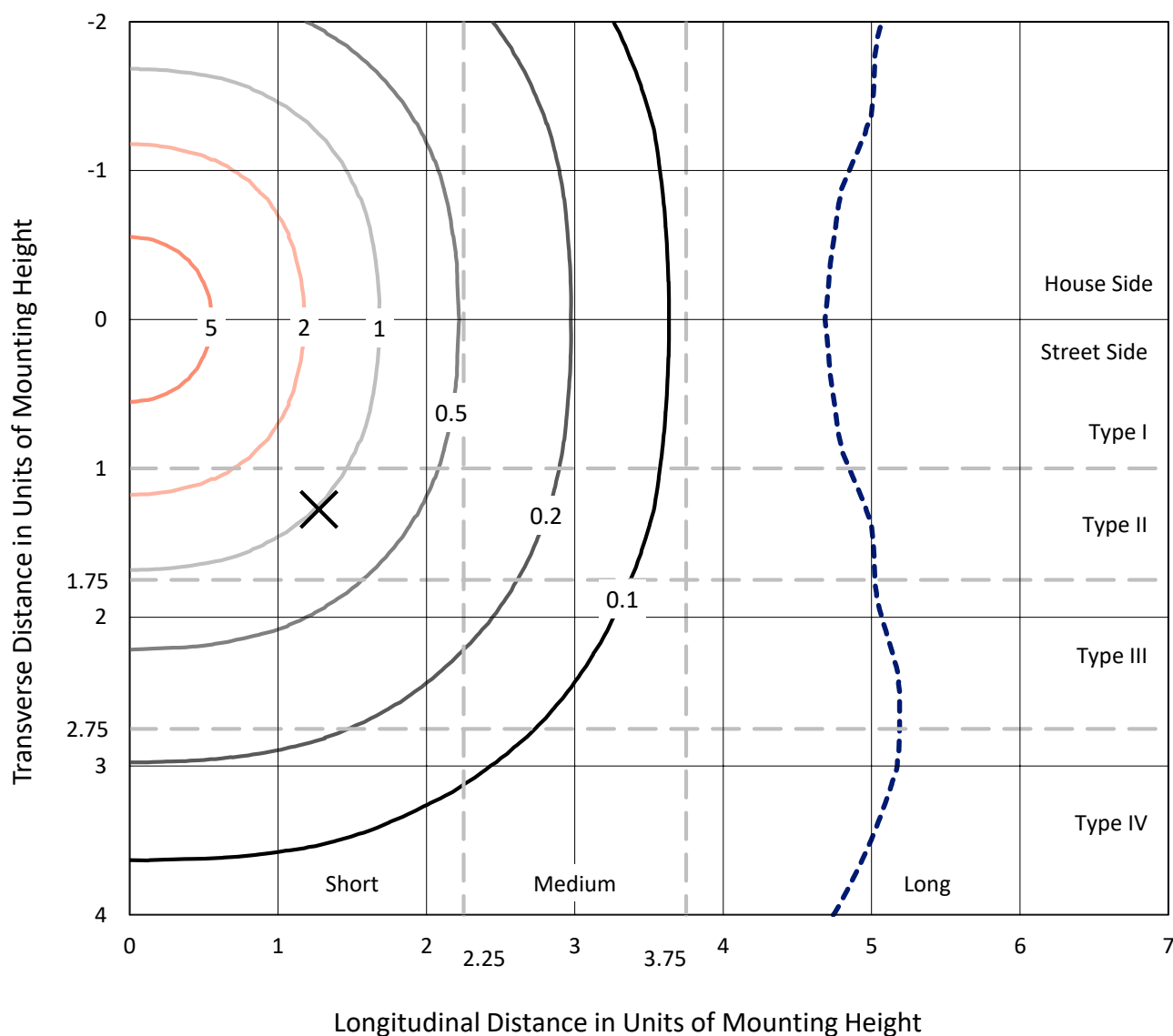
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

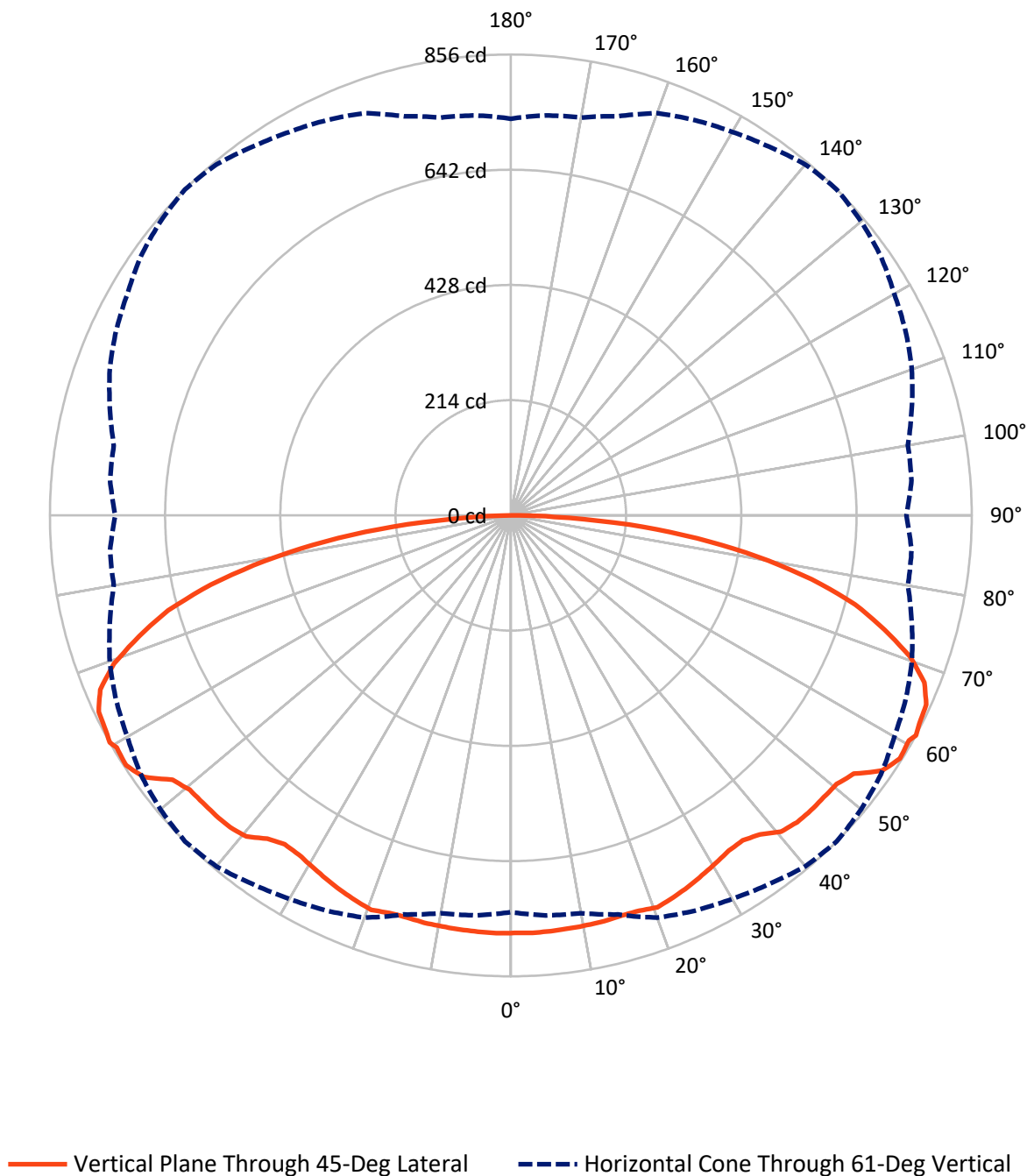


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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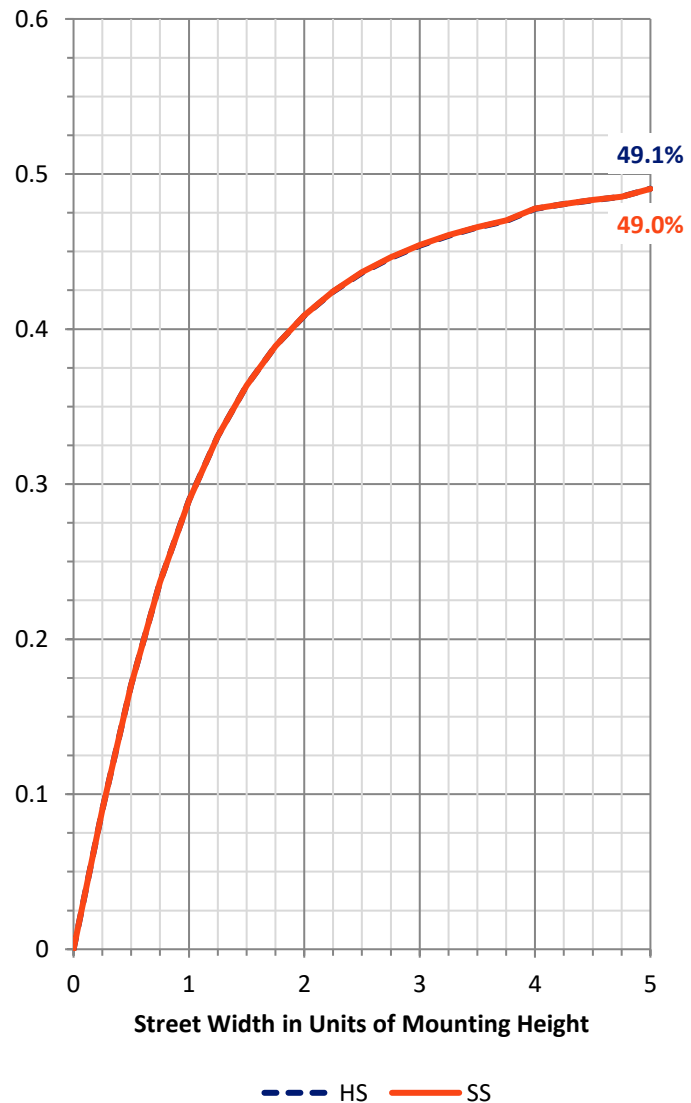
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2001.3	0.0	2001.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2001.3	0.0	2001.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	4002.6	0.0	4002.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	1.8
10°-20°	218.7	5.5
20°-30°	351.9	8.8
30°-40°	466.2	11.6
40°-50°	588.7	14.7
50°-60°	705.4	17.6
60°-70°	771.3	19.3
70°-80°	617.4	15.4
80°-90°	208.9	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°	4002.6	100.0
0°-180°	4002.6	100.0

Coefficient of Utilization



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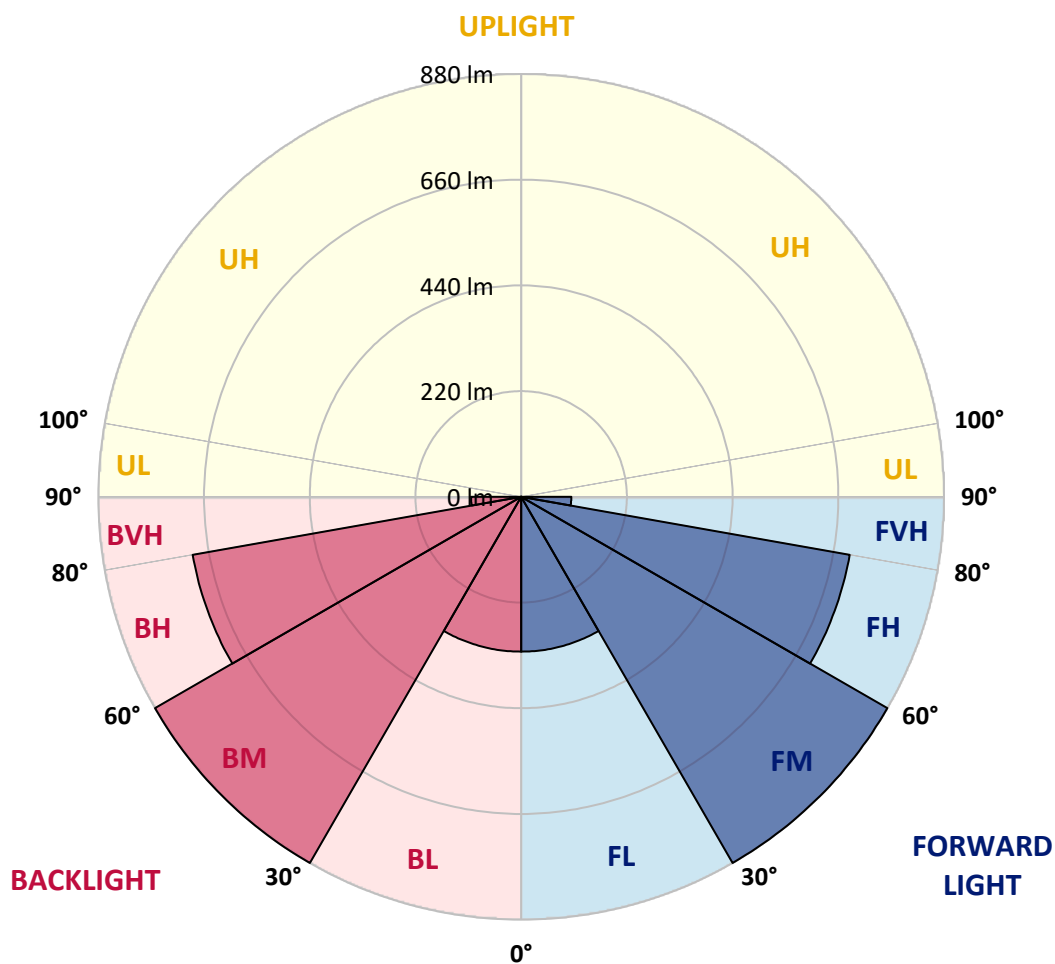
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	322.3	8.1			
FM	(30°-60°)	880.2	22.0			
FH	(60°-80°)	694.4	17.3			G1/1800
FVH	(80°-90°)	104.4	2.6			G2/225
BL	(0°-30°)	322.3	8.1	B1/500		
BM	(30°-60°)	880.2	22.0	B1/1000		
BH	(60°-80°)	694.4	17.3	B2/1000		G1/1800
BVH	(80°-90°)	104.4	2.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5
2.5°	776.2	775.5	776.2	776.2	776.2	776.2	776.2	776.2	776.2	776.2	776.2
5°	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5
7.5°	774.7	774.7	774.7	774.7	774.7	774.7	774.7	774.7	775.5	774.7	775.5
10°	773.3	773.3	773.3	773.3	773.9	773.9	773.9	773.9	773.9	773.9	773.9
12.5°	771.8	771.8	771.8	771.8	772.5	772.5	772.5	772.5	773.3	773.3	772.5
15°	770.2	769.5	769.5	770.2	770.2	771.0	771.0	771.0	771.8	771.0	771.0
17.5°	768.7	768.0	768.7	769.5	769.5	770.2	771.0	771.0	771.8	771.8	771.8
20°	771.0	770.2	771.0	771.8	772.5	773.9	774.7	775.5	776.2	777.0	777.0
22.5°	766.6	765.8	766.6	766.6	767.3	768.0	769.5	770.2	771.0	771.0	771.0
25°	759.8	759.8	760.6	760.6	761.3	762.0	762.8	763.5	763.5	764.3	763.5
27.5°	752.4	752.4	753.1	753.1	754.6	754.6	755.4	756.1	756.8	756.8	756.8
30°	743.5	743.5	744.1	744.9	746.4	747.1	747.9	748.7	749.4	749.4	749.4
32.5°	735.2	734.5	735.2	736.7	738.9	740.4	741.9	742.7	742.7	742.7	743.5
35°	728.5	729.3	730.8	732.2	735.2	736.7	738.2	740.4	741.2	741.2	741.2
37.5°	730.0	730.8	733.0	736.0	739.7	744.1	747.1	750.1	752.4	751.6	750.8
40°	739.7	741.2	744.9	749.4	755.4	761.3	765.8	769.5	771.8	772.5	771.8
42.5°	741.2	742.7	745.6	752.4	759.1	765.8	771.8	775.5	778.5	779.2	778.5
45°	740.4	740.4	744.9	752.4	759.1	765.8	773.3	778.5	781.4	781.4	781.4
47.5°	735.2	737.5	740.4	747.9	756.8	763.5	771.0	776.2	779.9	782.2	779.9
50°	735.2	735.2	740.4	745.6	753.9	765.8	776.2	781.4	785.2	784.4	785.2
52.5°	733.7	738.2	741.2	748.7	763.5	775.5	783.7	791.2	796.4	797.1	795.6
55°	747.1	747.9	754.6	768.7	782.9	796.4	811.2	822.4	831.4	836.6	829.1
57.5°	757.6	753.9	767.3	779.2	795.6	815.8	838.1	847.0	853.8	852.2	854.5
60°	743.5	748.7	758.3	771.0	797.1	817.2	829.1	838.9	847.0	849.3	846.3
61°	736.7	745.6	750.1	767.3	794.9	809.8	822.4	835.9	850.8	856.0	849.3
62.5°	725.6	739.7	738.2	765.8	782.9	800.1	823.9	839.6	850.1	851.6	850.1
65°	726.2	724.0	741.2	761.3	778.5	809.1	829.1	838.9	844.8	847.8	846.3
67.5°	702.4	695.0	715.8	730.0	759.1	782.9	802.3	816.5	825.4	828.4	824.7
70°	647.3	652.5	667.3	689.0	712.9	741.9	759.8	778.5	785.9	786.6	786.6
72.5°	594.3	597.3	612.1	632.3	659.9	685.2	703.1	718.1	724.8	725.6	727.0
75°	524.2	527.1	544.4	563.0	590.6	612.1	624.8	642.7	652.5	660.6	653.9
77.5°	442.9	448.2	461.5	481.7	507.1	519.0	541.3	562.3	569.0	571.2	569.0
80°	351.2	357.9	369.9	396.7	407.8	427.3	448.8	457.8	463.8	465.3	466.1
82.5°	252.8	258.0	270.7	289.3	302.0	317.6	332.6	343.8	350.5	349.0	348.2
85°	149.1	150.6	164.1	176.7	186.4	196.1	208.0	216.2	217.7	220.7	219.9
87.5°	44.8	45.4	51.4	58.1	62.7	67.1	74.6	84.3	86.5	80.6	81.3
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°	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5
2.5°	776.2	776.2	776.2	776.2	776.2	776.2	775.5	776.2
5°	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5
7.5°	775.5	774.7	774.7	774.7	774.7	774.7	774.7	774.7
10°	773.9	773.9	773.9	773.9	773.3	773.3	773.3	773.3
12.5°	772.5	772.5	772.5	772.5	771.8	771.8	771.8	771.8
15°	771.0	771.0	771.0	771.0	770.2	770.2	770.2	770.2
17.5°	771.8	771.0	770.2	770.2	769.5	768.7	768.7	768.7
20°	776.2	775.5	773.9	772.5	771.8	771.0	771.0	771.0
22.5°	770.2	769.5	768.0	767.3	767.3	766.6	765.8	765.8
25°	763.5	762.0	762.0	761.3	761.3	759.8	759.8	759.1
27.5°	756.1	755.4	754.6	753.9	753.9	753.1	752.4	751.6
30°	749.4	747.9	746.4	745.6	744.9	744.1	744.1	744.1
32.5°	742.7	741.2	740.4	738.2	736.7	736.0	735.2	735.2
35°	740.4	738.2	736.7	734.5	732.2	730.8	730.0	728.5
37.5°	749.4	746.4	744.1	740.4	735.2	733.0	730.8	730.0
40°	768.7	765.8	761.3	755.4	749.4	744.9	741.2	739.7
42.5°	775.5	771.8	765.8	759.8	752.4	745.6	742.7	741.2
45°	777.7	773.9	765.8	758.3	751.6	745.6	741.2	739.7
47.5°	775.5	770.2	762.8	756.8	747.1	739.7	736.7	734.5
50°	780.7	776.2	766.6	753.1	744.9	740.4	735.2	734.5
52.5°	791.2	782.9	773.9	764.3	748.7	739.7	736.7	733.0
55°	822.4	811.2	795.6	779.9	770.2	756.1	747.1	747.1
57.5°	846.3	837.4	817.2	796.4	778.5	768.0	754.6	755.4
60°	839.6	827.7	818.0	797.1	771.8	757.6	752.4	742.7
61°	838.9	822.4	809.1	792.6	771.0	748.7	747.1	734.5
62.5°	840.3	825.4	800.1	782.9	766.6	737.5	736.7	724.8
65°	838.9	824.7	812.0	779.9	757.6	745.6	720.3	730.0
67.5°	815.8	803.1	779.9	762.0	727.7	712.9	698.7	698.7
70°	779.2	760.6	738.2	715.8	692.7	667.3	654.7	647.3
72.5°	718.1	702.4	684.5	660.6	632.3	609.2	597.3	592.1
75°	641.3	624.1	608.5	590.6	560.7	541.3	528.6	525.0
77.5°	560.7	545.8	518.2	501.1	480.9	458.6	447.4	442.9
80°	457.8	449.6	430.3	402.6	393.0	365.3	357.9	351.2
82.5°	343.8	334.8	316.9	297.5	285.6	269.9	256.5	255.0
85°	216.2	210.3	199.1	184.9	170.0	161.0	149.1	152.1
87.5°	80.6	76.8	70.1	61.2	54.4	48.5	42.5	44.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)