

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: P197588

Luminaire Tested: **TT-C2-LED-E1-MQ-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197588
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-C2-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: 3920.5 lumens
Efficiency: N/A
Efficacy: 115.3 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): 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

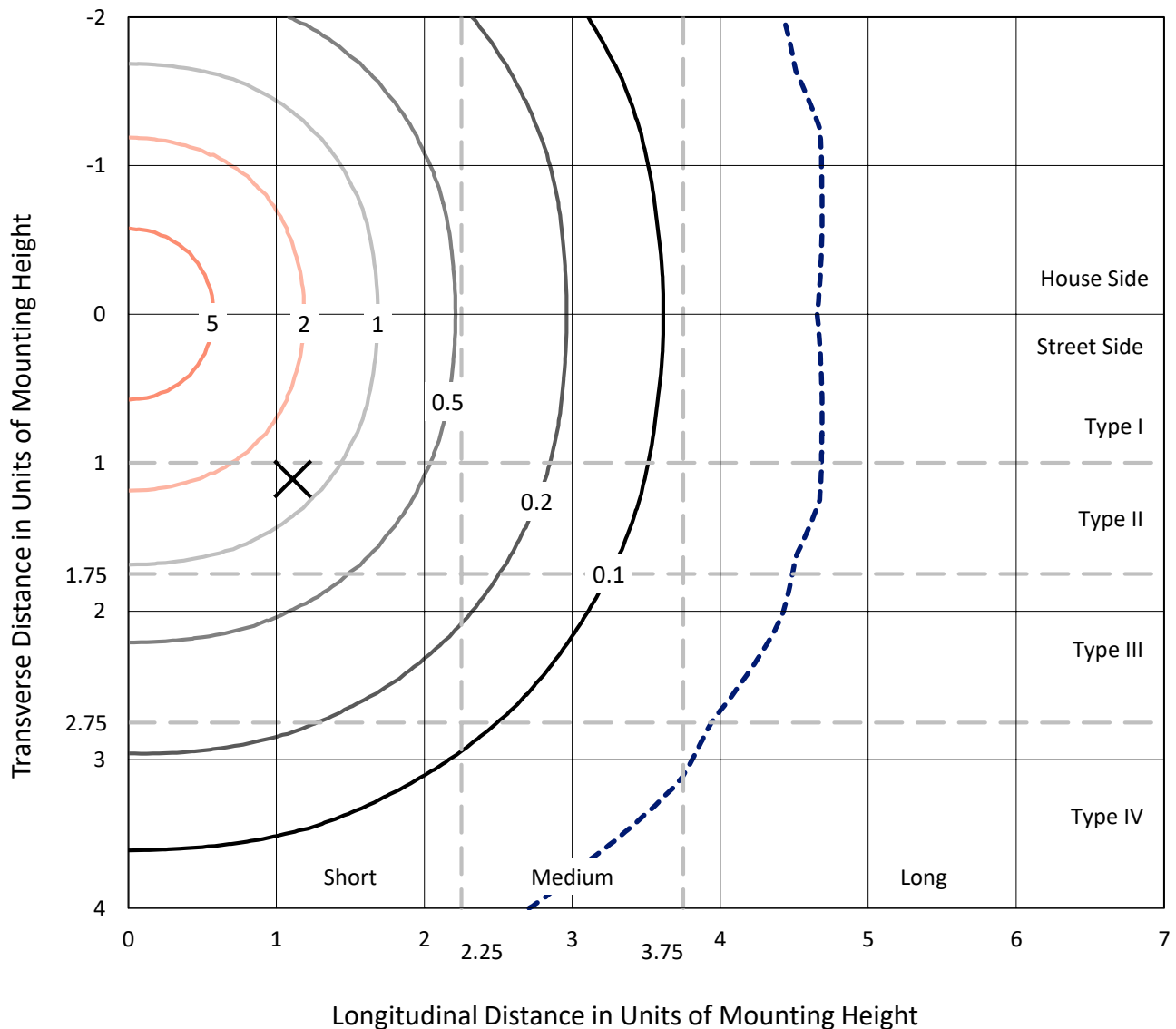


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

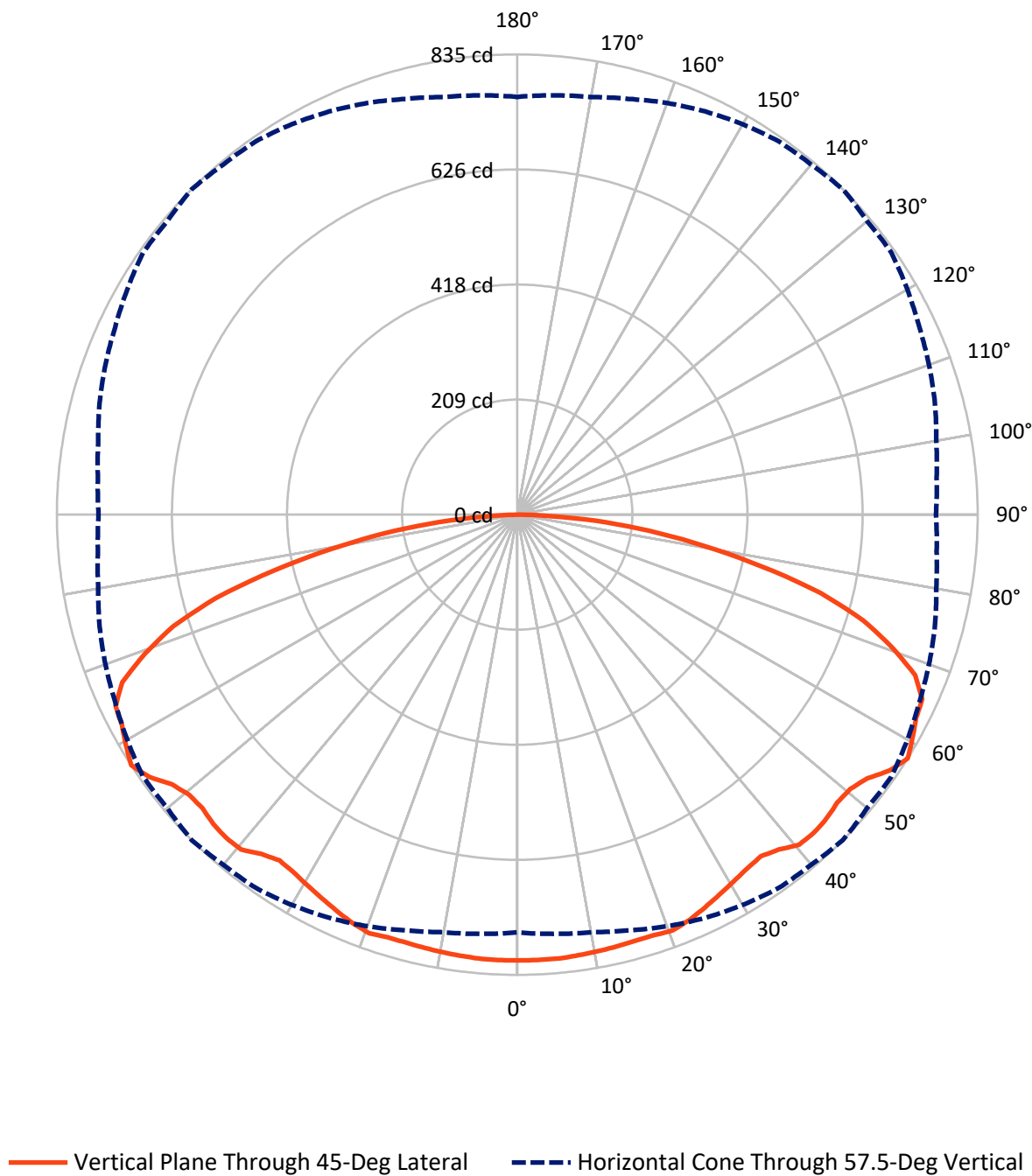


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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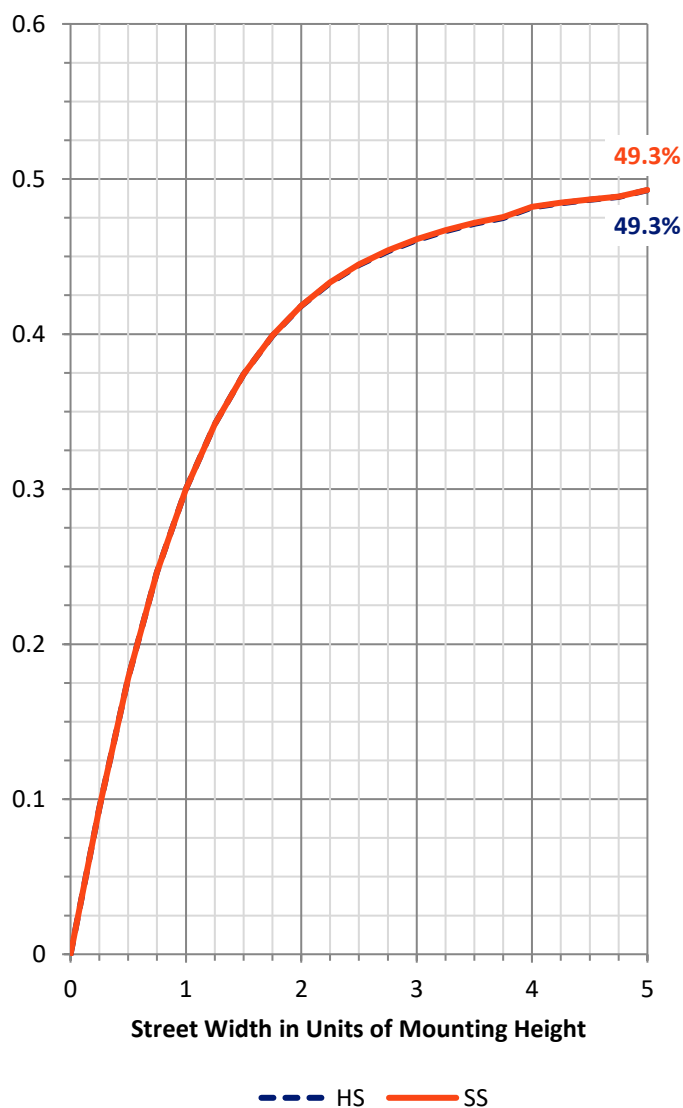
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1960.2	0.0	1960.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1960.2	0.0	1960.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	3920.5	0.0	3920.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	2.0
10°-20°	227.3	5.8
20°-30°	364.1	9.3
30°-40°	479.3	12.2
40°-50°	596.9	15.2
50°-60°	703.2	17.9
60°-70°	747.5	19.1
70°-80°	560.6	14.3
80°-90°	164.6	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°	3920.5	100.0
0°-180°	3920.5	100.0

Coefficient of Utilization



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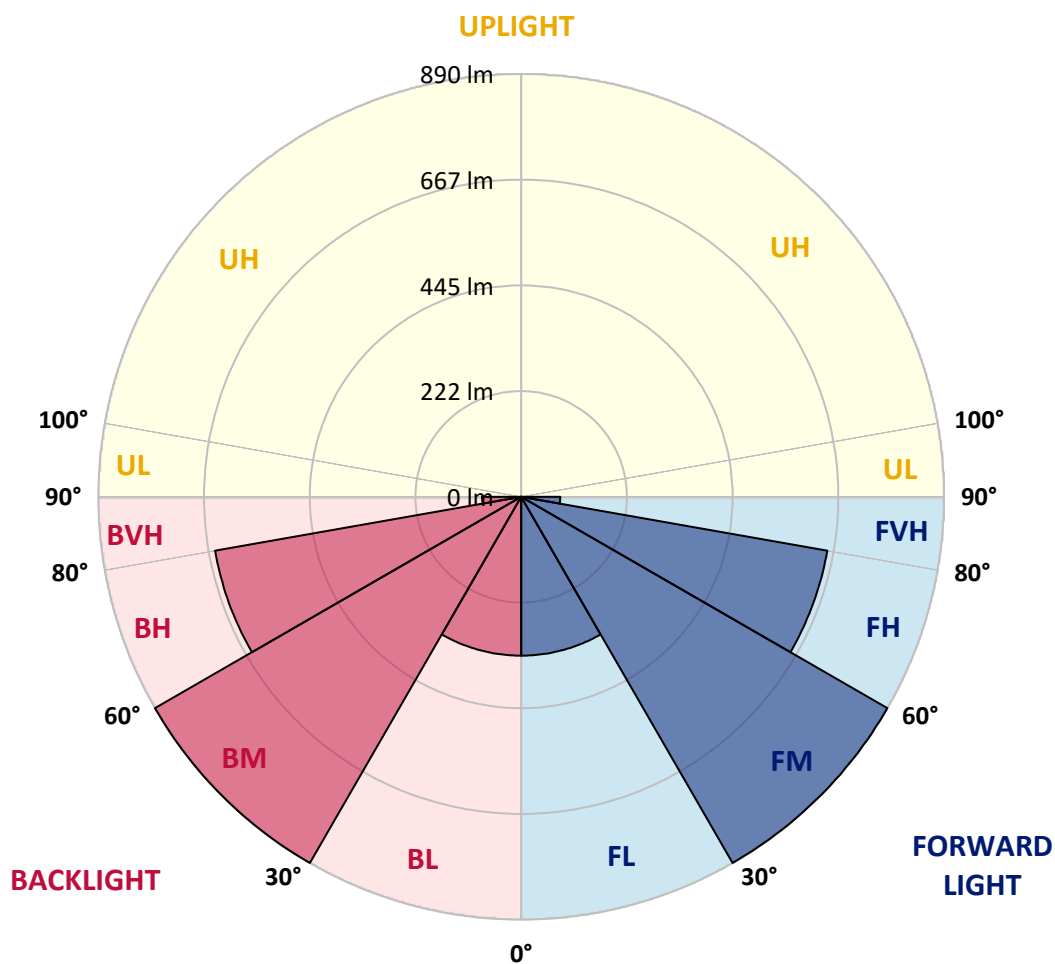
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.2	8.5			
FM	(30°-60°)	889.7	22.7			
FH	(60°-80°)	654.1	16.7			G0/660
FVH	(80°-90°)	82.3	2.1			G1/100
BL	(0°-30°)	334.2	8.5	B1/500		
BM	(30°-60°)	889.7	22.7	B1/1000		
BH	(60°-80°)	654.1	16.7	B2/1000		G0/660
BVH	(80°-90°)	82.3	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°	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7
2.5°	807.9	807.9	807.9	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7
5°	807.9	807.9	807.9	807.9	807.9	807.9	808.7	808.7	808.7	808.7	808.7
7.5°	806.2	806.2	806.2	806.2	806.2	807.0	807.0	807.0	807.0	807.0	807.0
10°	804.6	804.6	804.6	804.6	805.4	805.4	805.4	805.4	805.4	805.4	805.4
12.5°	802.9	802.9	802.1	802.9	802.9	802.9	803.8	803.8	803.8	803.8	803.8
15°	799.7	799.7	800.5	800.5	801.3	801.3	801.3	801.3	802.1	802.1	802.1
17.5°	798.0	798.0	798.8	799.7	799.7	800.5	801.3	801.3	802.1	802.1	802.1
20°	800.5	800.5	800.5	801.3	802.1	802.9	803.8	804.6	804.6	805.4	804.6
22.5°	795.6	795.6	795.6	796.4	796.4	796.4	797.2	798.0	798.0	798.8	798.0
25°	786.5	786.5	787.3	787.3	788.2	788.2	789.0	789.0	789.0	789.8	789.8
27.5°	777.5	776.7	778.3	778.3	779.1	779.1	780.0	780.8	780.8	780.8	781.6
30°	767.6	767.6	768.5	768.5	769.3	770.1	770.9	771.7	771.7	772.6	772.6
32.5°	757.0	757.8	758.6	759.4	760.3	761.9	762.7	763.5	764.4	765.2	764.4
35°	749.6	750.4	751.2	752.9	755.3	757.0	758.6	760.3	761.1	761.1	761.1
37.5°	751.2	752.0	753.7	757.0	761.1	763.5	766.8	769.3	770.1	770.9	770.9
40°	760.3	761.9	764.4	768.5	773.4	777.5	782.4	784.9	786.5	787.3	786.5
42.5°	759.4	761.9	764.4	769.3	775.0	779.1	784.1	786.5	788.2	789.0	788.2
45°	757.0	758.6	761.1	766.0	770.1	775.9	780.8	783.2	785.7	786.5	785.7
47.5°	751.2	751.2	752.0	757.0	762.7	770.1	774.2	778.3	780.8	780.8	780.8
50°	743.8	747.1	748.8	755.3	761.1	767.6	775.0	780.8	781.6	782.4	781.6
52.5°	743.8	744.7	750.4	754.5	766.0	775.9	783.2	789.0	793.9	794.7	794.7
55°	757.0	758.6	761.9	771.7	780.8	795.6	807.9	812.8	816.1	819.4	816.1
57.5°	757.8	763.5	769.3	780.8	794.7	807.0	817.7	826.8	829.2	835.0	828.4
60°	747.9	749.6	755.3	769.3	787.3	800.5	810.3	818.5	826.8	823.5	826.8
62.5°	732.3	736.4	744.7	755.3	770.1	785.7	800.5	802.9	815.3	812.0	816.9
65°	720.0	723.3	731.5	747.1	765.2	775.0	791.4	801.3	800.5	807.0	799.7
67.5°	689.6	692.1	699.5	715.1	732.3	747.1	752.0	767.6	769.3	778.3	770.1
70°	639.6	645.3	656.0	670.8	684.7	697.0	706.1	714.3	719.2	720.8	719.2
72.5°	577.2	586.2	594.4	608.4	622.3	630.5	636.3	647.8	651.1	656.0	654.3
75°	513.1	513.1	521.3	532.0	542.7	547.6	550.9	558.3	562.4	568.1	563.2
77.5°	425.3	430.2	437.6	446.6	445.0	447.4	447.4	451.6	449.9	454.0	457.3
80°	333.3	338.3	344.8	351.4	350.6	344.8	348.9	344.0	342.4	343.2	345.6
82.5°	238.1	241.4	247.1	251.2	251.2	247.1	248.8	243.8	245.5	241.4	244.7
85°	136.3	140.4	144.5	148.6	148.6	146.1	148.6	142.0	142.9	142.9	142.9
87.5°	33.7	36.9	38.6	41.1	39.4	43.5	46.0	41.9	42.7	41.1	43.5
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°	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7
2.5°	808.7	807.9	808.7	808.7	808.7	808.7	807.9	807.9
5°	808.7	808.7	808.7	807.9	807.9	807.9	807.9	807.9
7.5°	807.0	807.0	807.0	806.2	806.2	806.2	806.2	806.2
10°	805.4	805.4	804.6	804.6	804.6	804.6	804.6	804.6
12.5°	803.8	803.8	802.9	802.9	802.9	802.9	802.9	802.1
15°	802.1	802.1	801.3	801.3	800.5	800.5	799.7	799.7
17.5°	802.1	801.3	800.5	799.7	799.7	798.8	798.0	798.0
20°	804.6	803.8	802.9	802.1	801.3	800.5	800.5	799.7
22.5°	798.0	797.2	796.4	796.4	795.6	795.6	795.6	794.7
25°	789.8	789.0	789.0	787.3	787.3	786.5	786.5	785.7
27.5°	780.8	780.0	780.0	779.1	778.3	777.5	776.7	776.7
30°	771.7	770.9	770.9	770.1	768.5	768.5	767.6	766.8
32.5°	763.5	763.5	762.7	761.1	759.4	758.6	757.0	757.0
35°	761.1	759.4	757.8	755.3	752.9	751.2	750.4	749.6
37.5°	770.1	767.6	763.5	761.1	757.8	754.5	752.9	751.2
40°	785.7	781.6	777.5	773.4	768.5	764.4	761.1	760.3
42.5°	786.5	784.1	780.0	775.0	769.3	764.4	761.1	760.3
45°	784.1	780.8	775.9	770.1	766.0	760.3	757.8	757.0
47.5°	778.3	775.0	770.1	761.9	756.1	752.0	751.2	751.2
50°	781.6	775.0	766.8	761.9	756.1	749.6	747.1	745.5
52.5°	789.0	782.4	777.5	766.8	754.5	748.8	745.5	743.0
55°	812.8	809.5	794.7	780.0	770.9	763.5	760.3	758.6
57.5°	828.4	816.9	804.6	794.7	784.1	771.7	763.5	759.4
60°	820.2	807.9	802.1	789.0	766.8	753.7	748.8	746.3
62.5°	802.1	802.1	786.5	766.0	757.8	746.3	737.3	734.0
65°	801.3	790.6	775.0	767.6	747.9	730.7	721.7	720.0
67.5°	766.8	752.0	747.9	731.5	715.1	699.5	692.9	689.6
70°	714.3	709.3	697.0	686.4	671.6	655.2	646.1	642.8
72.5°	647.8	639.6	633.8	624.8	610.8	590.3	582.9	578.8
75°	557.5	553.4	553.4	543.5	530.4	518.1	517.2	515.6
77.5°	448.3	449.9	454.0	443.3	447.4	440.9	435.1	431.0
80°	340.7	348.1	348.9	351.4	353.9	344.8	340.7	335.8
82.5°	242.2	246.3	251.2	252.0	253.7	247.1	243.8	238.9
85°	142.9	145.3	149.4	149.4	149.4	143.7	142.0	137.9
87.5°	41.9	41.9	44.3	41.9	41.9	41.9	37.8	40.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)