

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: P197587

Luminaire Tested: **TT-C2-LED-E1-MQ-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197587
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4011.5 lumens
Efficiency: N/A
Efficacy: 118.0 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



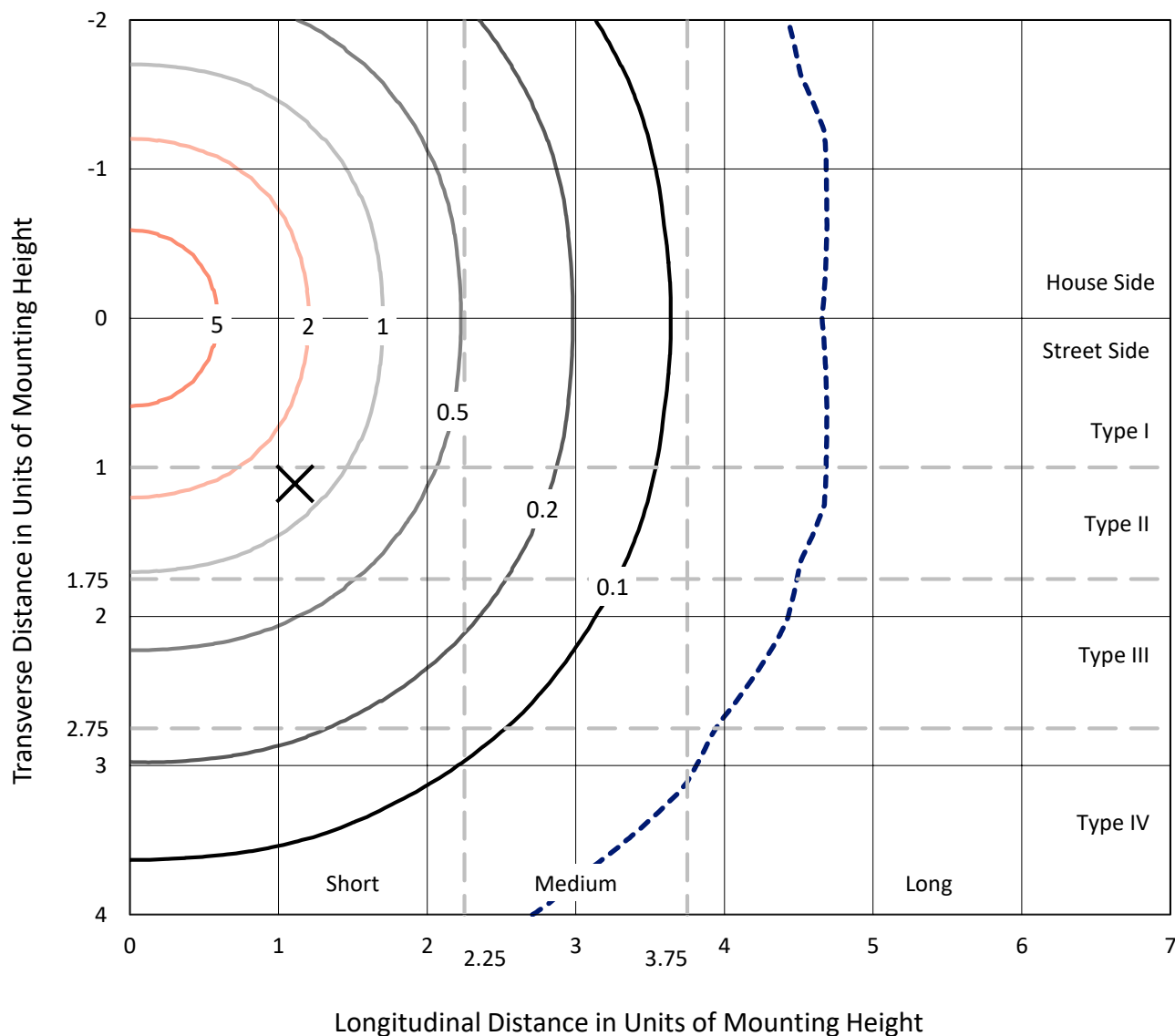
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

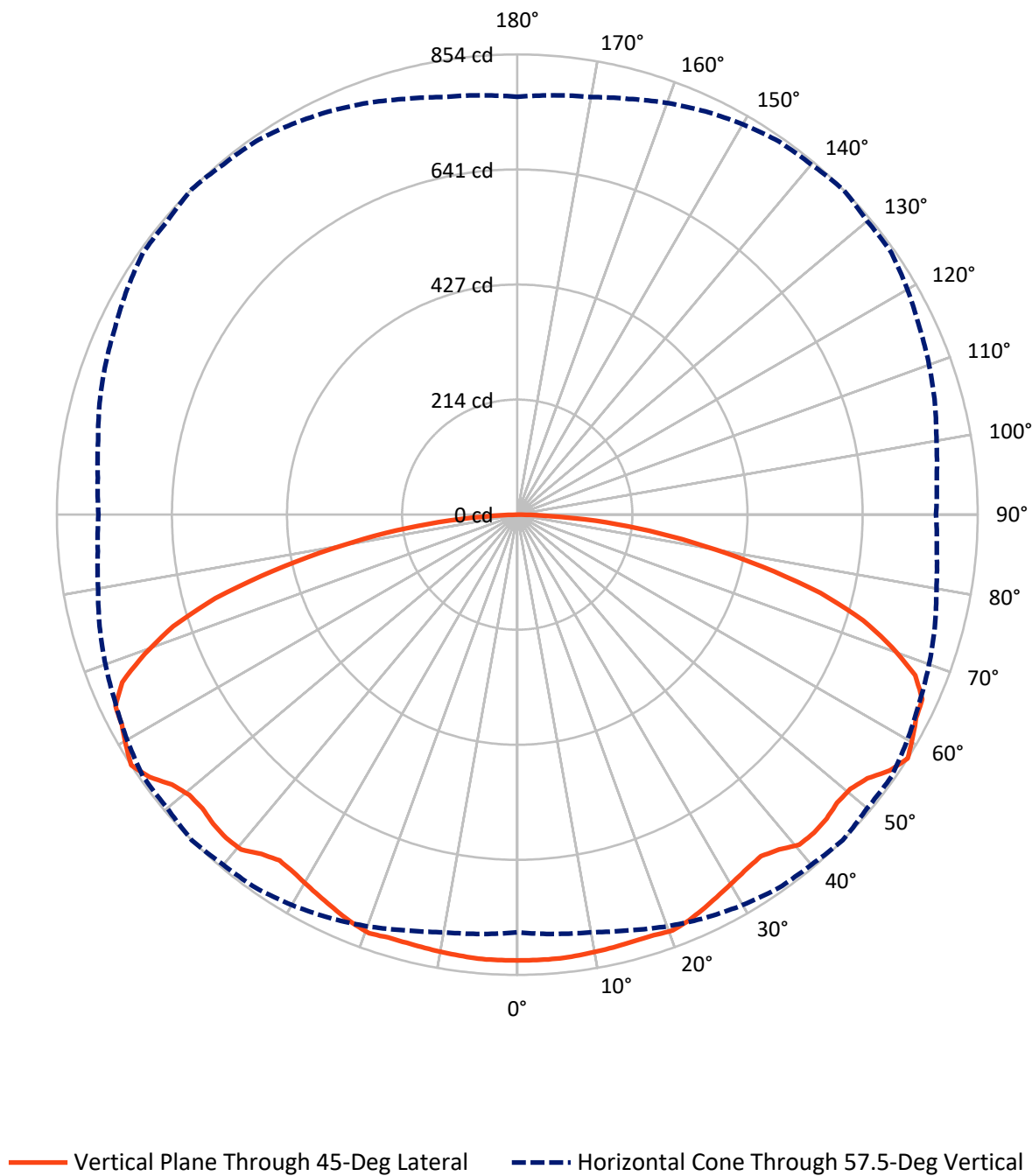


Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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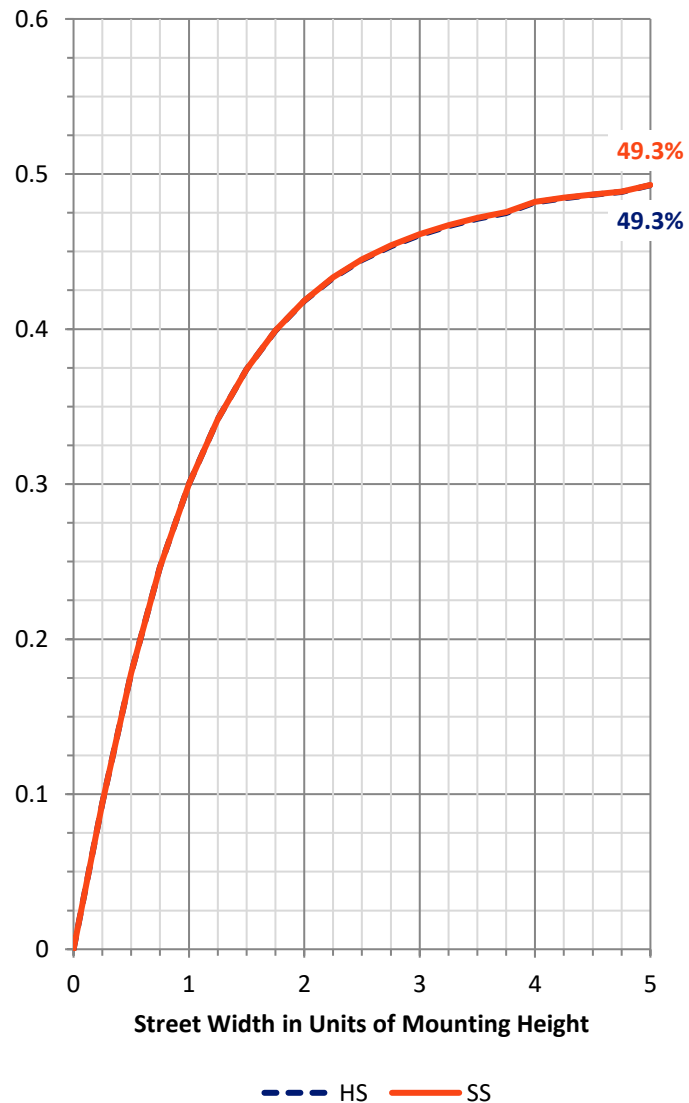
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2005.7	0.0	2005.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2005.7	0.0	2005.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	4011.5	0.0	4011.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	2.0
10°-20°	232.6	5.8
20°-30°	372.5	9.3
30°-40°	490.4	12.2
40°-50°	610.8	15.2
50°-60°	719.5	17.9
60°-70°	764.9	19.1
70°-80°	573.6	14.3
80°-90°	168.4	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°	4011.5	100.0
0°-180°	4011.5	100.0

Coefficient of Utilization



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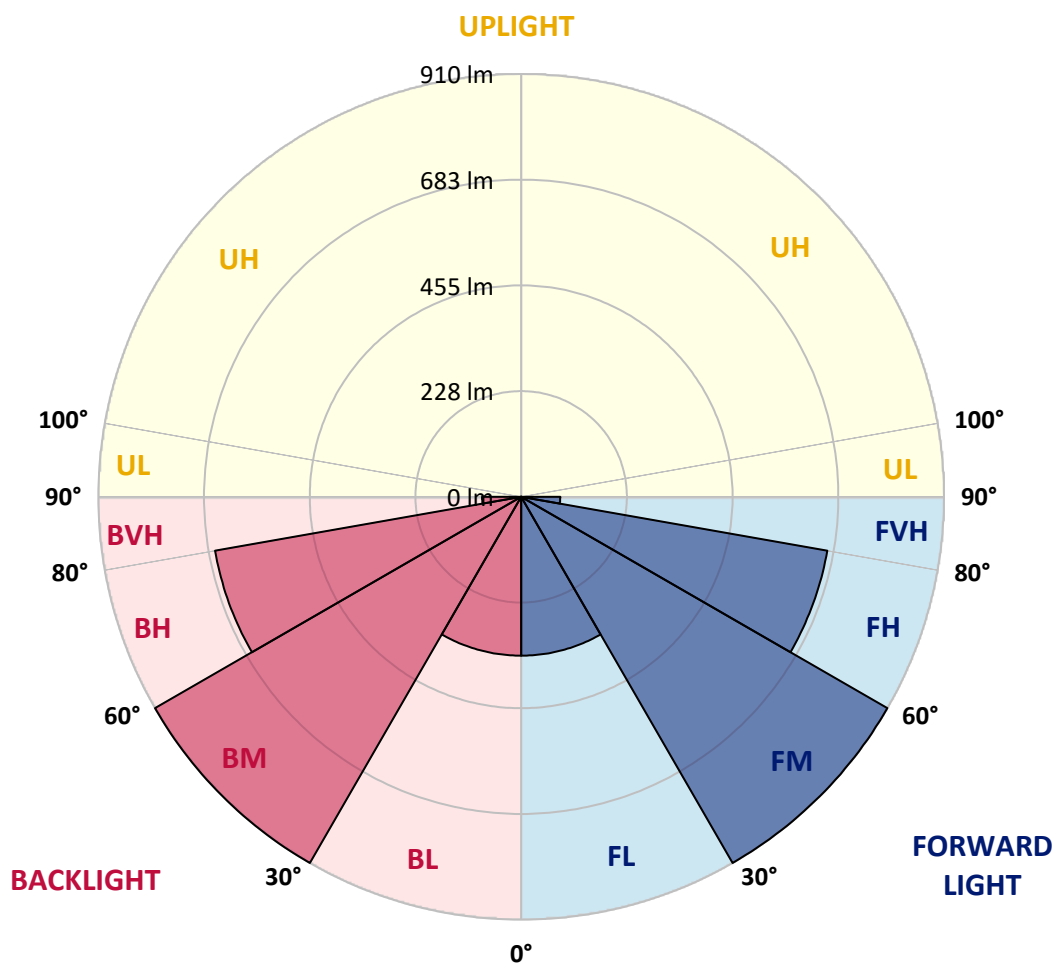
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	342.0	8.5			
FM	(30°-60°)	910.3	22.7			
FH	(60°-80°)	669.2	16.7			G1/1800
FVH	(80°-90°)	84.2	2.1			G1/100
BL	(0°-30°)	342.0	8.5	B1/500		
BM	(30°-60°)	910.3	22.7	B1/1000		
BH	(60°-80°)	669.2	16.7	B2/1000		G1/1800
BVH	(80°-90°)	84.2	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°	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5
2.5°	826.6	826.6	826.6	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5
5°	826.6	826.6	826.6	826.6	826.6	826.6	827.5	827.5	827.5	827.5	827.5
7.5°	824.9	824.9	824.9	824.9	824.9	825.8	825.8	825.8	825.8	825.8	825.8
10°	823.3	823.3	823.3	823.3	824.1	824.1	824.1	824.1	824.1	824.1	824.1
12.5°	821.6	821.6	820.7	821.6	821.6	821.6	822.4	822.4	822.4	822.4	822.4
15°	818.2	818.2	819.1	819.1	819.9	819.9	819.9	819.9	820.7	820.7	820.7
17.5°	816.5	816.5	817.4	818.2	818.2	819.1	819.9	819.9	820.7	820.7	820.7
20°	819.1	819.1	819.1	819.9	820.7	821.6	822.4	823.3	823.3	824.1	823.3
22.5°	814.0	814.0	814.0	814.9	814.9	814.9	815.7	816.5	816.5	817.4	816.5
25°	804.8	804.8	805.6	805.6	806.5	806.5	807.3	807.3	807.3	808.1	808.1
27.5°	795.5	794.7	796.4	796.4	797.2	797.2	798.1	798.9	798.9	798.9	799.7
30°	785.5	785.5	786.3	786.3	787.1	788.0	788.8	789.7	789.7	790.5	790.5
32.5°	774.5	775.4	776.2	777.1	777.9	779.6	780.4	781.3	782.1	782.9	782.1
35°	767.0	767.8	768.7	770.3	772.9	774.5	776.2	777.9	778.7	779.5	778.7
37.5°	768.7	769.5	771.2	774.5	778.7	781.3	784.6	787.1	788.0	788.8	788.8
40°	777.9	779.6	782.1	786.3	791.3	795.5	800.6	803.1	804.8	805.6	804.8
42.5°	777.1	779.6	782.1	787.1	793.0	797.2	802.3	804.8	806.5	807.3	806.5
45°	774.5	776.2	778.7	783.8	788.0	793.9	798.9	801.4	803.9	804.8	803.9
47.5°	768.7	768.7	769.5	774.5	780.4	788.0	792.2	796.4	798.9	799.7	798.9
50°	761.1	764.5	766.1	772.9	778.7	785.5	793.0	798.9	799.7	800.6	799.7
52.5°	761.1	761.9	767.8	772.0	783.8	793.9	801.4	807.3	812.3	813.2	813.2
55°	774.5	776.2	779.6	789.7	798.9	814.0	826.6	831.7	835.0	838.4	835.0
57.5°	775.4	781.3	787.1	798.9	813.2	825.8	836.7	845.9	848.5	854.3	847.6
60°	765.3	767.0	772.9	787.1	805.6	819.1	829.1	837.5	845.9	842.6	845.9
62.5°	749.3	753.5	761.9	772.9	788.0	803.9	819.1	821.6	834.2	830.8	835.9
65°	736.7	740.1	748.5	764.5	782.9	793.0	809.8	819.9	819.1	825.8	818.2
67.5°	705.6	708.2	715.7	731.7	749.3	764.5	769.5	785.5	787.1	796.4	788.0
70°	654.4	660.3	671.2	686.3	700.6	713.2	722.5	730.9	735.9	737.6	735.9
72.5°	590.6	599.8	608.2	622.5	636.8	645.2	651.0	662.8	666.2	671.2	669.5
75°	525.0	525.0	533.4	544.4	555.3	560.3	563.7	571.2	575.4	581.3	576.3
77.5°	435.2	440.2	447.8	457.0	455.3	457.8	457.8	462.0	460.4	464.6	467.9
80°	341.1	346.1	352.8	359.5	358.7	352.8	357.0	352.0	350.3	351.1	353.7
82.5°	243.6	247.0	252.9	257.1	257.1	252.9	254.5	249.5	251.2	247.0	250.3
85°	139.4	143.7	147.9	152.1	152.1	149.5	152.1	145.3	146.2	146.2	146.2
87.5°	34.4	37.8	39.5	42.0	40.3	44.5	47.0	42.8	43.7	42.0	44.5
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°	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5
2.5°	827.5	826.6	827.5	827.5	827.5	827.5	826.6	826.6
5°	827.5	827.5	827.5	826.6	826.6	826.6	826.6	826.6
7.5°	825.8	825.8	825.8	824.9	824.9	824.9	824.9	824.9
10°	824.1	824.1	823.3	823.3	823.3	823.3	823.3	823.3
12.5°	822.4	822.4	821.6	821.6	821.6	821.6	821.6	820.7
15°	820.7	820.7	819.9	819.9	819.1	819.1	818.2	818.2
17.5°	820.7	819.9	819.1	818.2	818.2	817.4	816.5	816.5
20°	823.3	822.4	821.6	820.7	819.9	819.1	819.1	818.2
22.5°	816.5	815.7	814.9	814.9	814.0	814.0	814.0	813.2
25°	808.1	807.3	807.3	805.6	805.6	804.8	804.8	803.9
27.5°	798.9	798.1	798.1	797.2	796.4	795.5	794.7	794.7
30°	789.7	788.8	788.8	788.0	786.3	786.3	785.5	784.6
32.5°	781.3	781.3	780.4	778.7	777.1	776.2	774.5	774.5
35°	778.7	777.1	775.4	772.9	770.3	768.7	767.8	767.0
37.5°	788.0	785.5	781.3	778.7	775.4	772.0	770.3	768.7
40°	803.9	799.7	795.5	791.3	786.3	782.1	778.7	777.9
42.5°	804.8	802.3	798.1	793.0	787.1	782.1	778.7	777.9
45°	802.3	798.9	793.9	788.0	783.8	777.9	775.4	774.5
47.5°	796.4	793.0	788.0	779.6	773.7	769.5	768.7	768.7
50°	799.7	793.0	784.6	779.6	773.7	767.0	764.5	762.8
52.5°	807.3	800.6	795.5	784.6	772.0	766.1	762.8	760.3
55°	831.7	828.3	813.2	798.1	788.8	781.3	777.9	776.2
57.5°	847.6	835.9	823.3	813.2	802.3	789.7	781.3	777.1
60°	839.2	826.6	820.7	807.3	784.6	771.2	766.1	763.6
62.5°	820.7	820.7	804.8	783.8	775.4	763.6	754.4	751.0
65°	819.9	809.0	793.0	785.5	765.3	747.7	738.4	736.7
67.5°	784.6	769.5	765.3	748.5	731.7	715.7	709.0	705.6
70°	730.9	725.8	713.2	702.3	687.2	670.4	661.1	657.8
72.5°	662.8	654.4	648.5	639.3	625.0	604.0	596.4	592.2
75°	570.4	566.2	566.2	556.1	542.7	530.1	529.2	527.6
77.5°	458.7	460.4	464.6	453.6	457.8	451.1	445.2	441.0
80°	348.6	356.2	357.0	359.5	362.1	352.8	348.6	343.6
82.5°	247.8	252.0	257.1	257.9	259.6	252.9	249.5	244.5
85°	146.2	148.7	152.9	152.9	152.9	147.0	145.3	141.1
87.5°	42.8	42.8	45.4	42.8	42.8	42.8	38.6	41.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)