

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: P197511

Luminaire Tested: **TT-C1-LED-E1-CQ-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115438)
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-CQ-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED 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: 3454.1 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B1 - 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

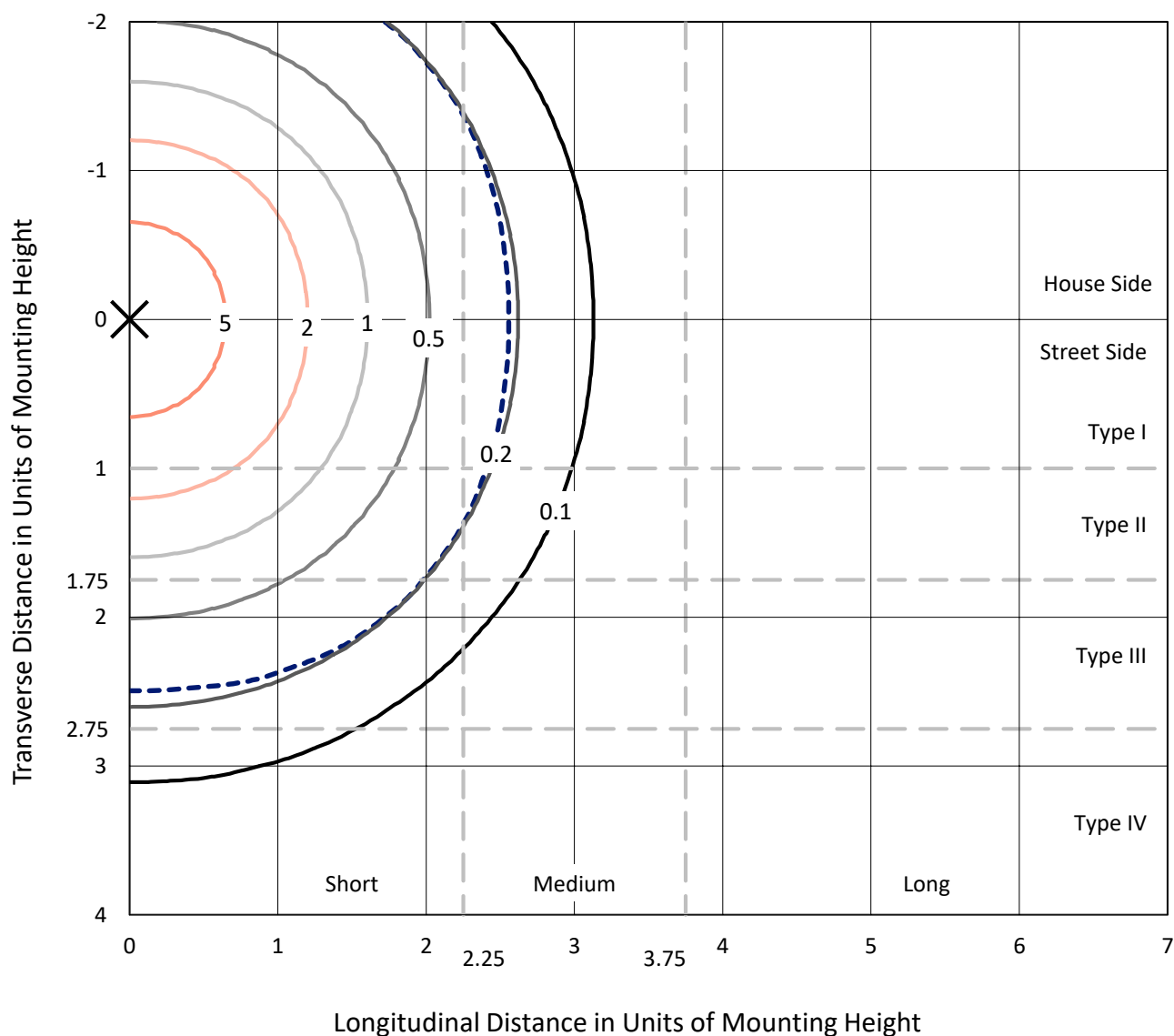


REPORT NUMBER: P197511

CATALOG NUMBER: TT-C1-LED-E1-CQ-LWR-LW-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

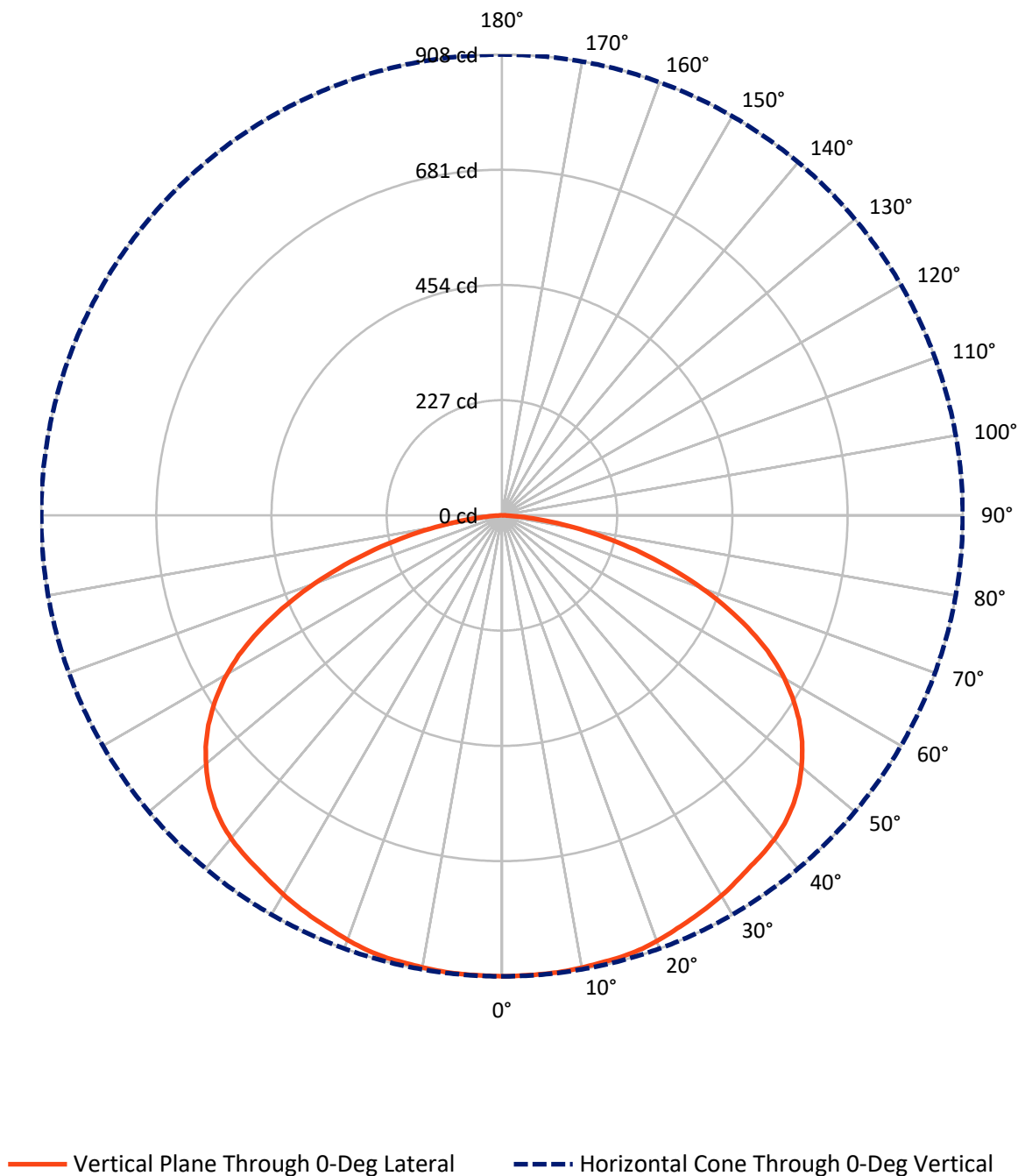


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P197511

CATALOG NUMBER: TT-C1-LED-E1-CQ-LWR-LW-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P197511

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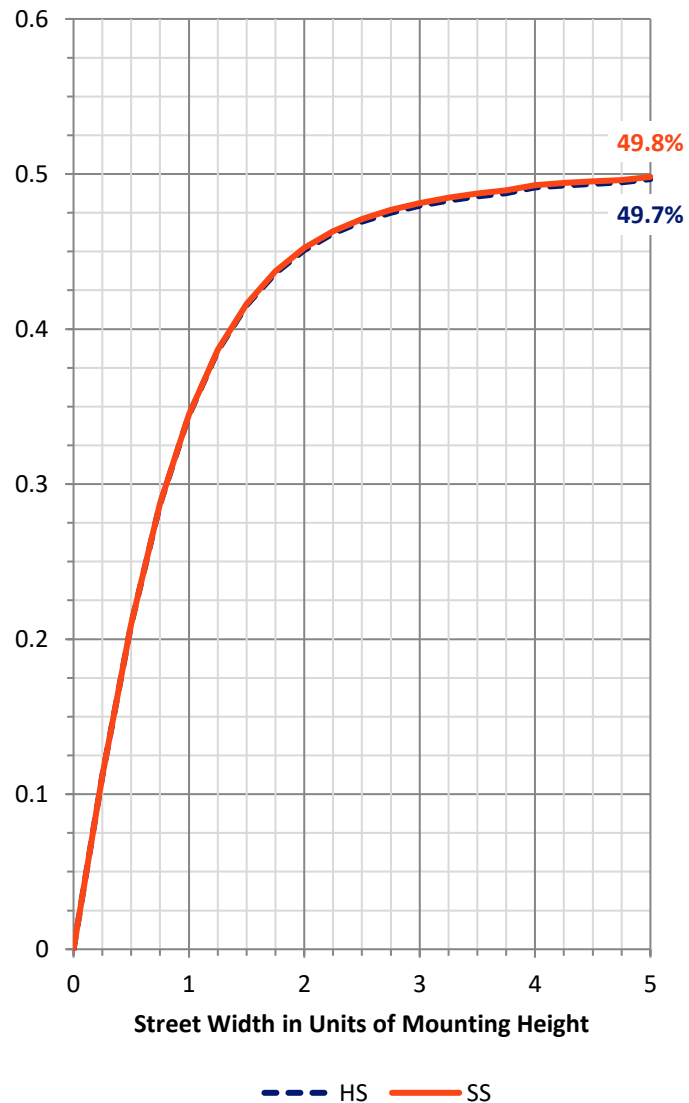
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1727.1	0.0	1727.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1727.1	0.0	1727.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	3454.1	0.0	3454.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	2.5
10°-20°	254.7	7.4
20°-30°	405.7	11.7
30°-40°	531.9	15.4
40°-50°	627.3	18.2
50°-60°	649.7	18.8
60°-70°	543.4	15.7
70°-80°	296.2	8.6
80°-90°	58.8	1.7
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°	3454.1	100.0
0°-180°	3454.1	100.0

Coefficient of Utilization



REPORT NUMBER: P197511

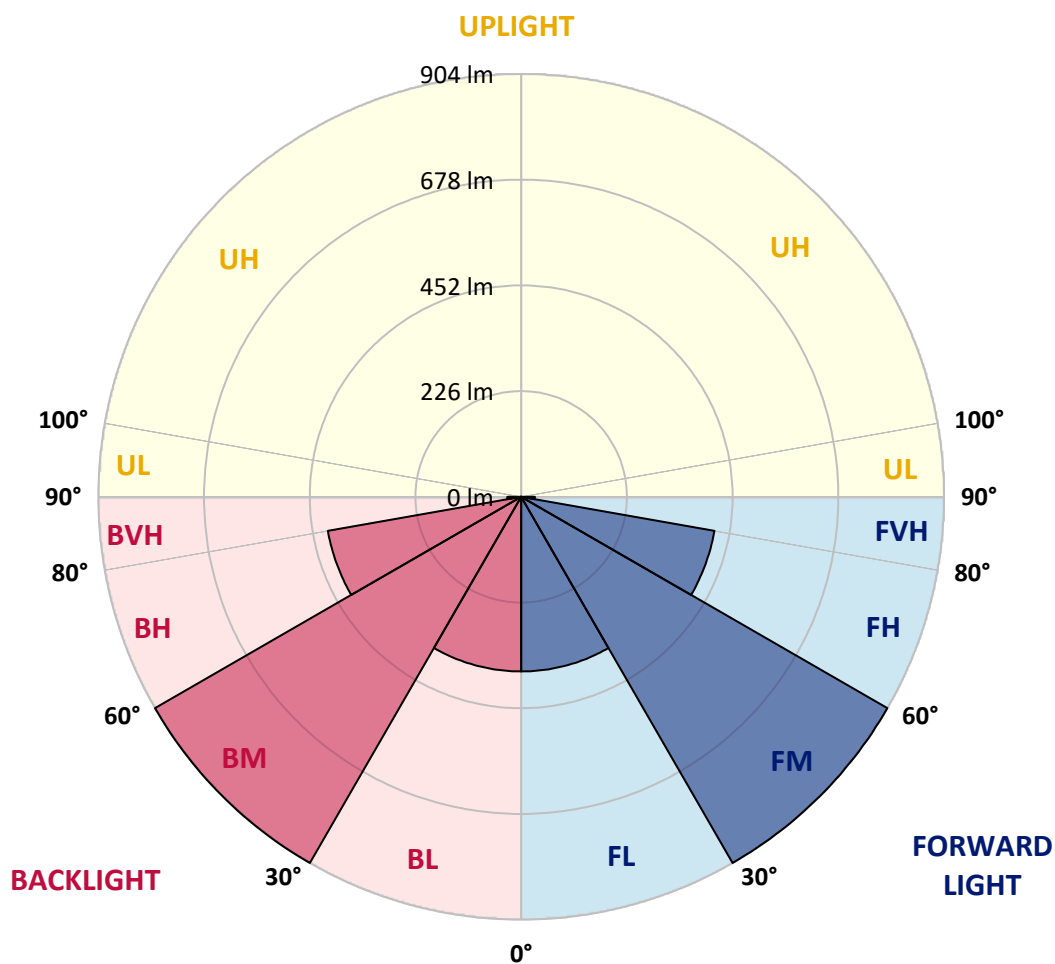
CATALOG NUMBER: TT-C1-LED-E1-CQ-LWR-LW-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	373.5	10.8			
FM	(30°-60°)	904.5	26.2			
FH	(60°-80°)	419.8	12.2			G0/660
FVH	(80°-90°)	29.4	0.9			G1/100
BL	(0°-30°)	373.5	10.8	B1/500		
BM	(30°-60°)	904.5	26.2	B1/1000		
BH	(60°-80°)	419.8	12.2	B1/500		G0/660
BVH	(80°-90°)	29.4	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type V Short



REPORT NUMBER: P197511

CATALOG NUMBER: TT-C1-LED-E1-CQ-LWR-LW-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	907.8	907.8	907.8	907.8	907.8	907.8	907.8	907.8	907.8	907.8	907.8
2.5°	907.0	907.8	907.8	907.8	907.8	907.8	907.8	907.8	907.0	907.8	907.8
5°	907.0	907.0	907.0	907.0	907.8	907.0	907.0	907.0	907.0	907.0	907.0
7.5°	906.3	905.6	905.6	905.6	905.6	905.6	906.3	906.3	906.3	906.3	906.3
10°	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1
12.5°	901.9	901.9	901.9	901.9	902.7	902.7	902.7	902.7	902.7	902.7	901.9
15°	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5
17.5°	896.9	896.9	896.9	896.9	897.6	897.6	897.6	897.6	897.6	897.6	897.6
20°	891.0	891.0	891.0	891.0	891.0	891.8	892.5	892.5	892.5	892.5	892.5
22.5°	883.8	883.8	884.5	884.5	885.2	885.2	886.0	886.0	886.0	886.0	886.0
25°	877.2	877.2	877.2	878.0	878.0	878.0	878.7	879.4	879.4	879.4	878.7
27.5°	870.7	870.7	870.7	871.4	871.4	871.4	872.1	872.1	872.9	872.1	872.1
30°	863.4	862.7	862.7	863.4	864.1	864.1	864.9	864.9	864.9	864.9	864.1
32.5°	854.7	854.7	855.4	856.2	856.2	856.9	857.6	857.6	857.6	858.3	856.9
35°	846.7	847.4	847.4	848.2	849.6	850.3	851.1	851.8	851.8	851.8	850.3
37.5°	840.2	840.9	841.6	843.1	844.5	846.0	847.4	848.9	848.2	848.2	846.0
40°	832.2	832.9	834.3	835.8	838.7	840.2	842.3	843.8	844.5	843.8	841.6
42.5°	821.3	822.0	823.4	825.6	829.3	832.2	834.3	836.5	837.3	836.5	834.3
45°	806.7	807.5	808.9	811.8	816.2	819.1	822.7	824.9	826.4	826.4	824.2
47.5°	788.6	789.3	791.5	794.4	798.7	802.4	806.7	809.6	811.1	812.5	810.4
50°	766.0	766.8	769.7	773.3	776.9	782.0	787.1	791.5	793.6	794.4	793.6
52.5°	740.6	741.3	744.2	747.9	752.9	758.8	764.6	769.7	772.6	774.0	772.6
55°	710.1	711.5	713.7	718.8	724.6	729.7	737.0	742.8	746.4	747.1	746.4
57.5°	674.5	676.6	678.8	684.6	690.4	697.7	703.5	709.3	713.7	714.4	714.4
60°	634.5	635.9	638.1	643.9	650.5	655.6	663.6	669.4	673.0	673.0	673.7
62.5°	587.2	588.7	592.3	596.7	604.0	609.0	615.6	621.4	625.0	626.5	625.8
65°	532.0	533.5	535.6	541.5	547.3	553.1	559.6	564.7	568.3	569.1	568.3
67.5°	471.0	472.4	473.9	481.1	486.9	489.1	497.1	501.5	503.7	504.4	504.4
70°	406.3	407.0	409.2	412.8	419.4	421.5	426.6	430.3	431.7	434.6	432.4
72.5°	338.7	340.1	345.2	345.9	351.0	353.9	355.4	355.4	359.0	359.0	359.8
75°	271.8	272.5	274.7	275.5	279.1	279.1	278.4	279.8	282.7	282.7	283.4
77.5°	205.7	205.7	209.3	206.4	207.9	205.0	206.4	205.0	207.1	206.4	207.1
80°	143.9	143.9	146.1	143.2	143.9	141.0	141.7	141.0	141.0	141.7	141.7
82.5°	88.7	89.4	90.8	88.7	88.7	86.5	87.2	87.9	87.9	87.2	86.5
85°	43.6	43.6	45.1	44.3	43.6	42.2	42.9	43.6	43.6	42.9	42.9
87.5°	11.6	11.6	12.4	12.4	11.6	10.9	11.6	12.4	12.4	12.4	11.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P197511

CATALOG NUMBER: TT-C1-LED-E1-CQ-LWR-LW-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	907.8	907.8	907.8	907.8	907.8	907.8	907.8	907.8
2.5°	907.0	907.0	907.8	907.0	907.8	907.0	907.8	907.8
5°	907.0	907.0	907.0	907.0	907.0	907.0	907.0	907.0
7.5°	905.6	906.3	905.6	905.6	905.6	906.3	905.6	906.3
10°	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1
12.5°	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.2
15°	900.5	899.8	899.8	899.8	899.0	899.0	899.0	899.0
17.5°	897.6	896.9	896.1	896.1	896.1	896.1	895.4	895.4
20°	892.5	891.8	891.0	891.0	890.3	890.3	889.6	889.6
22.5°	885.2	885.2	884.5	883.8	883.8	883.0	883.0	882.3
25°	878.7	878.0	877.2	876.5	875.8	875.8	875.0	874.3
27.5°	871.4	870.0	869.2	868.5	867.8	867.1	866.3	865.6
30°	863.4	862.0	860.5	859.8	858.3	856.9	856.2	855.4
32.5°	855.4	854.0	851.8	849.6	848.2	846.7	845.3	844.5
35°	848.9	846.0	843.8	840.9	838.7	836.5	835.8	835.1
37.5°	843.8	840.9	837.3	834.3	832.2	829.3	827.8	826.4
40°	838.7	835.1	830.7	827.1	824.2	820.5	819.1	817.6
42.5°	831.4	827.1	822.7	818.4	814.0	810.4	808.2	806.7
45°	821.3	816.9	811.8	806.0	801.6	797.3	795.1	793.6
47.5°	807.5	803.1	797.3	792.2	787.1	782.7	779.8	778.4
50°	790.7	786.4	780.6	774.8	769.7	764.6	762.4	760.2
52.5°	769.7	766.0	759.5	755.1	749.3	744.2	742.0	740.6
55°	743.5	739.9	733.3	729.0	723.2	718.8	715.9	713.7
57.5°	711.5	708.6	701.3	697.0	691.2	686.8	684.6	683.2
60°	672.3	669.4	662.1	657.7	652.7	647.6	646.1	644.7
62.5°	623.6	622.1	616.3	611.2	606.1	601.1	599.6	598.9
65°	566.9	565.4	560.4	556.0	551.6	547.3	545.8	544.4
67.5°	502.2	501.5	497.1	493.5	490.6	486.2	485.5	484.0
70°	433.2	431.7	428.1	425.2	423.0	419.4	418.6	417.2
72.5°	361.2	360.5	358.3	354.7	354.7	349.6	348.9	348.1
75°	282.0	285.6	282.7	281.3	281.3	278.4	278.4	277.6
77.5°	206.4	210.0	212.2	209.3	212.2	209.3	209.3	208.6
80°	141.0	143.9	146.1	143.9	147.5	145.4	145.4	148.3
82.5°	85.8	88.7	90.1	89.4	91.6	90.8	90.1	92.3
85°	42.2	43.6	44.3	44.3	45.1	43.6	45.1	45.8
87.5°	10.9	11.6	12.4	11.6	12.4	12.4	12.4	13.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)