

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: P197512

Luminaire Tested: **TT-C1-LED-E1-CQ-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197512
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-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED 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: 3375.8 lumens
Efficiency: N/A
Efficacy: 120.6 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

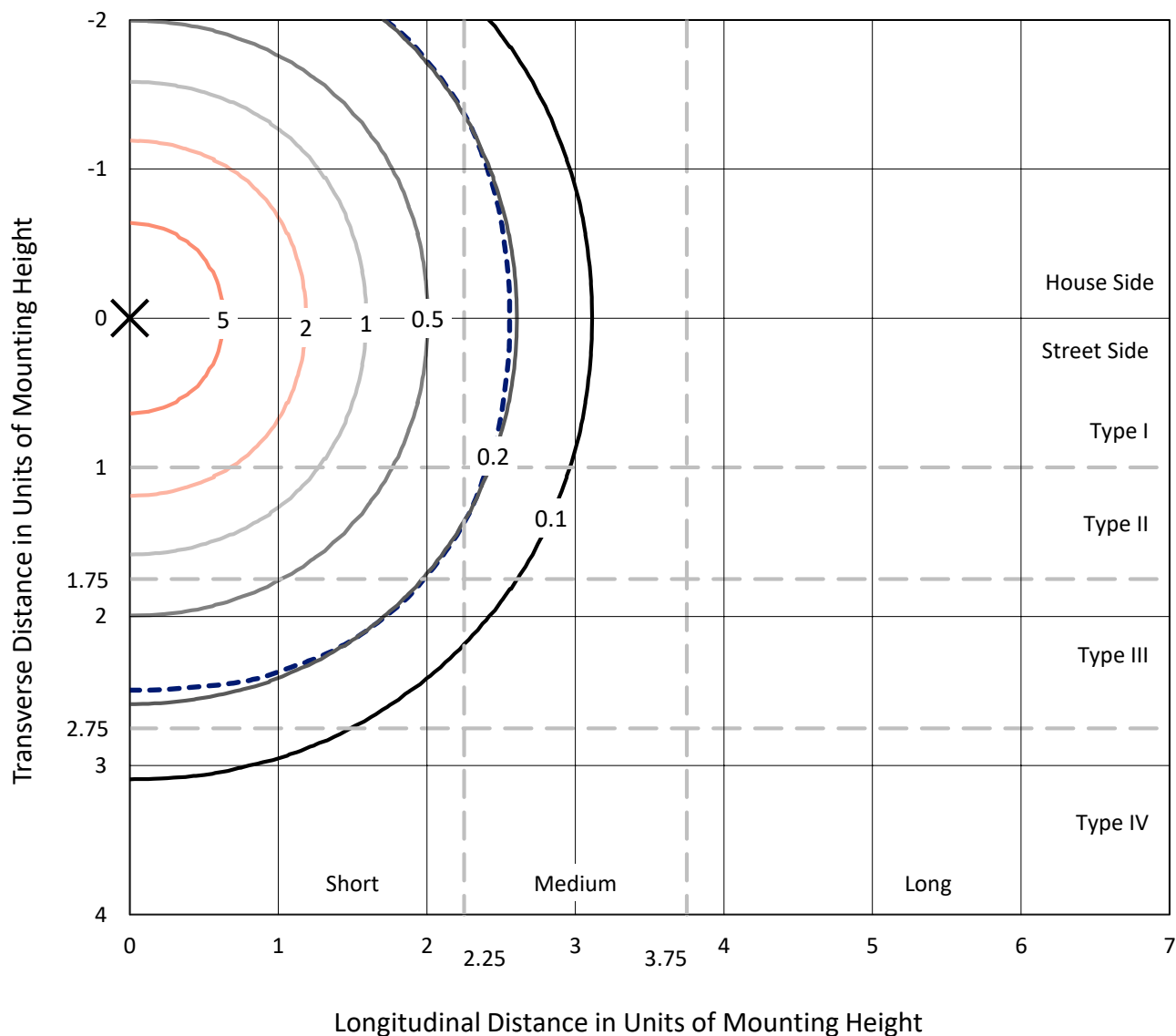


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

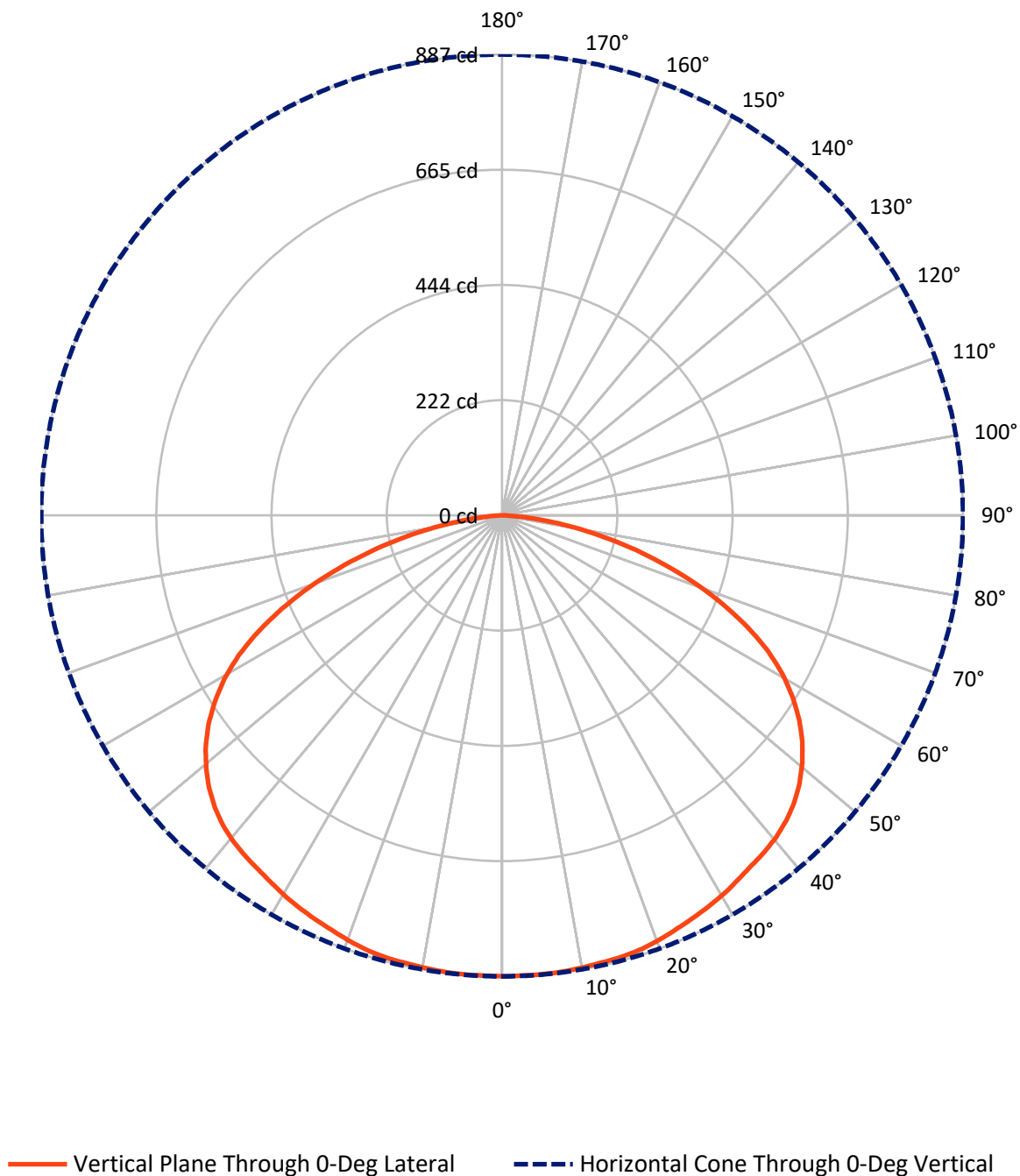


Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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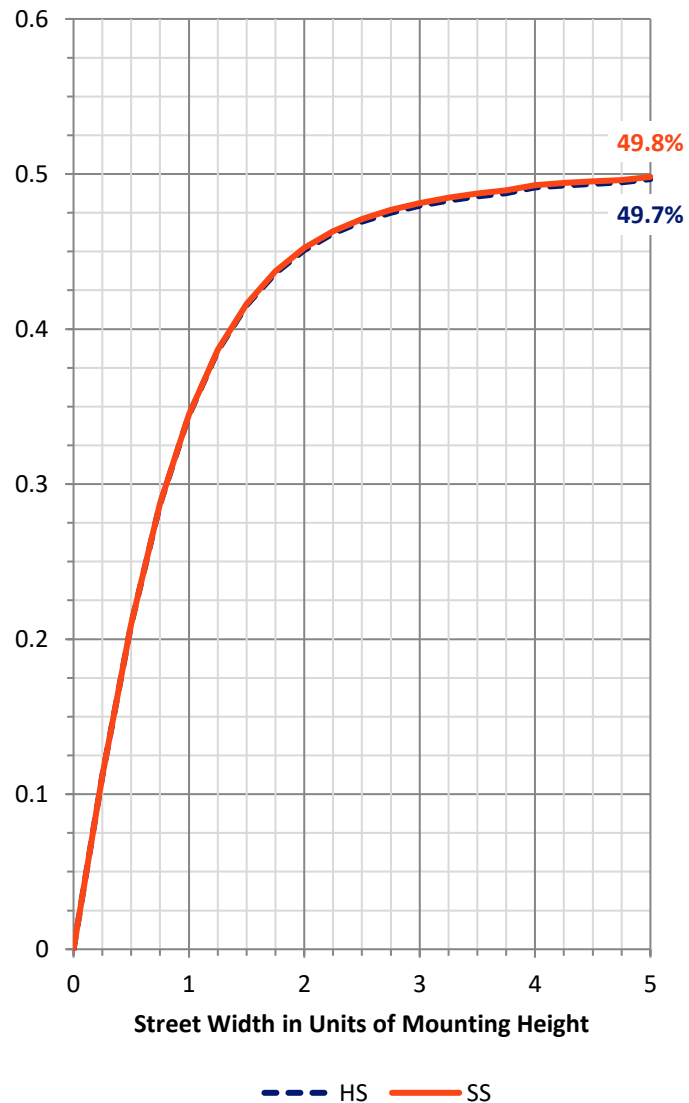
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1687.9	0.0	1687.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1687.9	0.0	1687.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	3375.8	0.0	3375.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	2.5
10°-20°	249.0	7.4
20°-30°	396.5	11.7
30°-40°	519.8	15.4
40°-50°	613.1	18.2
50°-60°	635.0	18.8
60°-70°	531.0	15.7
70°-80°	289.4	8.6
80°-90°	57.5	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°	3375.8	100.0
0°-180°	3375.8	100.0

Coefficient of Utilization



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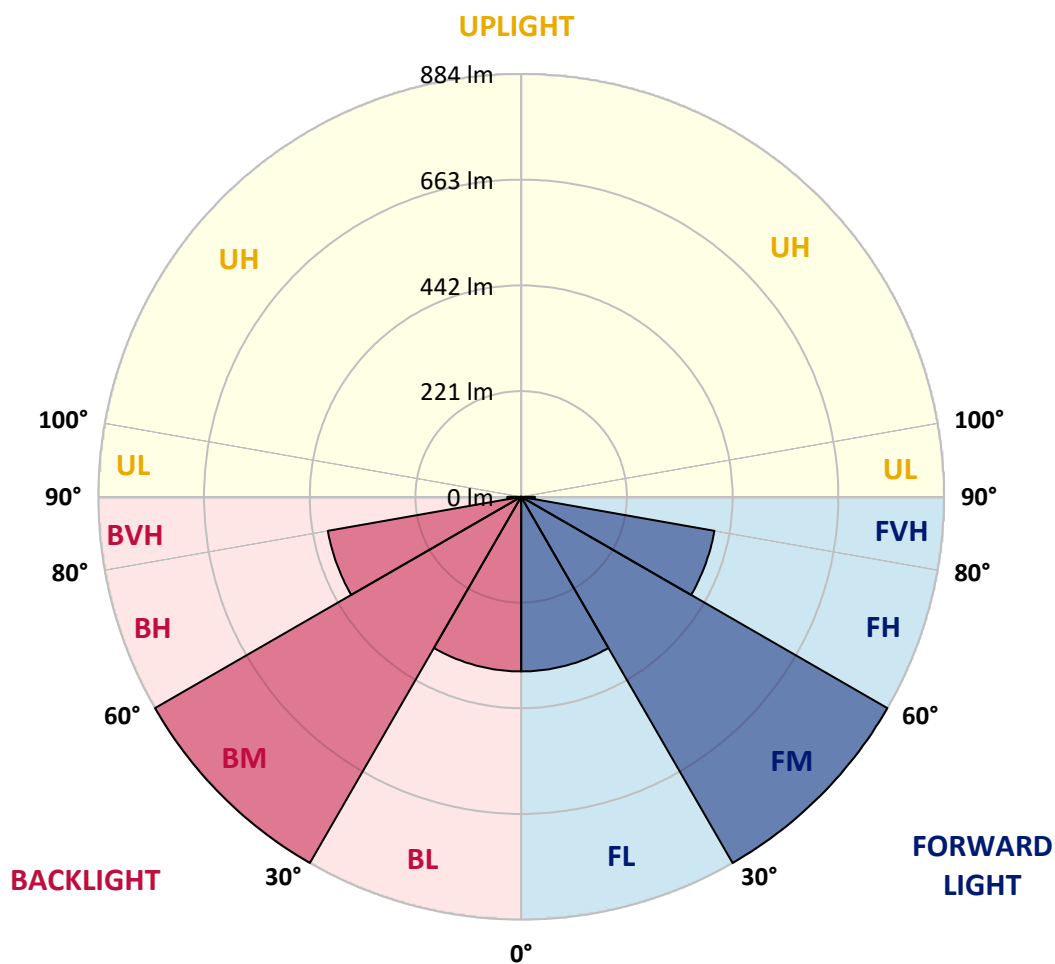
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	365.0	10.8			
FM	(30°-60°)	883.9	26.2			
FH	(60°-80°)	410.2	12.2			G0/660
FVH	(80°-90°)	28.7	0.9			G1/100
BL	(0°-30°)	365.0	10.8	B1/500		
BM	(30°-60°)	883.9	26.2	B1/1000		
BH	(60°-80°)	410.2	12.2	B1/500		G0/660
BVH	(80°-90°)	28.7	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	887.2	887.2	887.2	887.2	887.2	887.2	887.2	887.2	887.2	887.2	887.2
2.5°	886.5	887.2	887.2	887.2	887.2	887.2	887.2	887.2	886.5	887.2	887.2
5°	886.5	886.5	886.5	886.5	887.2	886.5	886.5	886.5	886.5	886.5	886.5
7.5°	885.7	885.0	885.0	885.0	885.0	885.0	885.7	885.7	885.7	885.7	885.7
10°	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6
12.5°	881.5	881.5	881.5	881.5	882.2	882.2	882.2	882.2	882.2	882.2	881.5
15°	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1
17.5°	876.5	876.5	876.5	876.5	877.2	877.2	877.2	877.2	877.2	877.2	877.2
20°	870.8	870.8	870.8	870.8	870.8	871.5	872.2	872.2	872.2	872.2	872.2
22.5°	863.7	863.7	864.4	864.4	865.1	865.1	865.9	865.9	865.9	865.9	865.9
25°	857.3	857.3	857.3	858.0	858.0	858.0	858.8	859.5	859.5	859.5	858.8
27.5°	850.9	850.9	850.9	851.7	851.7	851.7	852.4	852.4	853.1	852.4	852.4
30°	843.8	843.1	843.1	843.8	844.5	844.5	845.3	845.3	845.3	845.3	844.5
32.5°	835.3	835.3	836.0	836.7	836.7	837.4	838.2	838.2	838.2	838.9	837.4
35°	827.5	828.2	828.2	828.9	830.3	831.1	831.8	832.5	832.5	832.5	831.1
37.5°	821.1	821.8	822.5	823.9	825.4	826.8	828.2	829.6	828.9	828.9	826.8
40°	813.3	814.0	815.4	816.8	819.7	821.1	823.2	824.7	825.4	824.7	822.5
42.5°	802.6	803.4	804.8	806.9	810.5	813.3	815.4	817.6	818.3	817.6	815.4
45°	788.4	789.1	790.6	793.4	797.7	800.5	804.1	806.2	807.6	807.6	805.5
47.5°	770.7	771.4	773.5	776.4	780.6	784.2	788.4	791.3	792.7	794.1	792.0
50°	748.7	749.4	752.2	755.8	759.3	764.3	769.3	773.5	775.6	776.4	775.6
52.5°	723.8	724.5	727.3	730.9	735.9	741.6	747.2	752.2	755.1	756.5	755.1
55°	694.0	695.4	697.5	702.5	708.2	713.1	720.2	725.9	729.5	730.2	729.5
57.5°	659.2	661.3	663.4	669.1	674.8	681.9	687.6	693.3	697.5	698.2	698.2
60°	620.1	621.5	623.6	629.3	635.7	640.7	648.5	654.2	657.7	657.7	658.4
62.5°	573.9	575.3	578.9	583.2	590.3	595.2	601.6	607.3	610.9	612.3	611.6
65°	519.9	521.4	523.5	529.2	534.9	540.5	546.9	551.9	555.5	556.2	555.5
67.5°	460.3	461.7	463.1	470.2	475.9	478.0	485.8	490.1	492.2	492.9	492.9
70°	397.1	397.8	399.9	403.5	409.8	412.0	416.9	420.5	421.9	424.8	422.6
72.5°	331.0	332.4	337.4	338.1	343.1	345.9	347.3	347.3	350.9	350.9	351.6
75°	265.7	266.4	268.5	269.2	272.8	272.8	272.0	273.5	276.3	276.3	277.0
77.5°	201.0	201.0	204.6	201.7	203.1	200.3	201.7	200.3	202.4	201.7	202.4
80°	140.6	140.6	142.8	139.9	140.6	137.8	138.5	137.8	137.8	138.5	138.5
82.5°	86.7	87.4	88.8	86.7	86.7	84.5	85.2	85.9	85.9	85.2	84.5
85°	42.6	42.6	44.0	43.3	42.6	41.2	41.9	42.6	42.6	41.9	41.9
87.5°	11.4	11.4	12.1	12.1	11.4	10.7	11.4	12.1	12.1	12.1	11.4
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°	887.2	887.2	887.2	887.2	887.2	887.2	887.2	887.2
2.5°	886.5	886.5	887.2	886.5	887.2	886.5	887.2	887.2
5°	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5
7.5°	885.0	885.7	885.0	885.0	885.0	885.7	885.0	885.7
10°	883.6	883.6	883.6	883.6	883.6	883.6	883.6	883.6
12.5°	881.5	881.5	881.5	881.5	881.5	881.5	881.5	880.8
15°	880.1	879.4	879.4	879.4	878.6	878.6	878.6	878.6
17.5°	877.2	876.5	875.8	875.8	875.8	875.8	875.1	875.1
20°	872.2	871.5	870.8	870.8	870.1	870.1	869.4	869.4
22.5°	865.1	865.1	864.4	863.7	863.7	863.0	863.0	862.3
25°	858.8	858.0	857.3	856.6	855.9	855.9	855.2	854.5
27.5°	851.7	850.2	849.5	848.8	848.1	847.4	846.7	846.0
30°	843.8	842.4	841.0	840.3	838.9	837.4	836.7	836.0
32.5°	836.0	834.6	832.5	830.3	828.9	827.5	826.1	825.4
35°	829.6	826.8	824.7	821.8	819.7	817.6	816.8	816.1
37.5°	824.7	821.8	818.3	815.4	813.3	810.5	809.0	807.6
40°	819.7	816.1	811.9	808.3	805.5	801.9	800.5	799.1
42.5°	812.6	808.3	804.1	799.8	795.5	792.0	789.9	788.4
45°	802.6	798.4	793.4	787.7	783.5	779.2	777.1	775.6
47.5°	789.1	784.9	779.2	774.2	769.3	765.0	762.2	760.7
50°	772.8	768.5	762.9	757.2	752.2	747.2	745.1	743.0
52.5°	752.2	748.7	742.3	738.0	732.3	727.3	725.2	723.8
55°	726.6	723.1	716.7	712.4	706.7	702.5	699.6	697.5
57.5°	695.4	692.5	685.4	681.2	675.5	671.2	669.1	667.7
60°	657.0	654.2	647.1	642.8	637.9	632.9	631.5	630.0
62.5°	609.4	608.0	602.3	597.4	592.4	587.4	586.0	585.3
65°	554.0	552.6	547.6	543.4	539.1	534.9	533.4	532.0
67.5°	490.8	490.1	485.8	482.3	479.5	475.2	474.5	473.1
70°	423.3	421.9	418.4	415.5	413.4	409.8	409.1	407.7
72.5°	353.0	352.3	350.2	346.6	346.6	341.7	340.9	340.2
75°	275.6	279.1	276.3	274.9	274.9	272.0	272.0	271.3
77.5°	201.7	205.3	207.4	204.6	207.4	204.6	204.6	203.9
80°	137.8	140.6	142.8	140.6	144.2	142.1	142.1	144.9
82.5°	83.8	86.7	88.1	87.4	89.5	88.8	88.1	90.2
85°	41.2	42.6	43.3	43.3	44.0	42.6	44.0	44.7
87.5°	10.7	11.4	12.1	11.4	12.1	12.1	12.1	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)