

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: P197732

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115483)
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-WQ-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE 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: 3718.8 lumens
Efficiency: N/A
Efficacy: 109.4 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



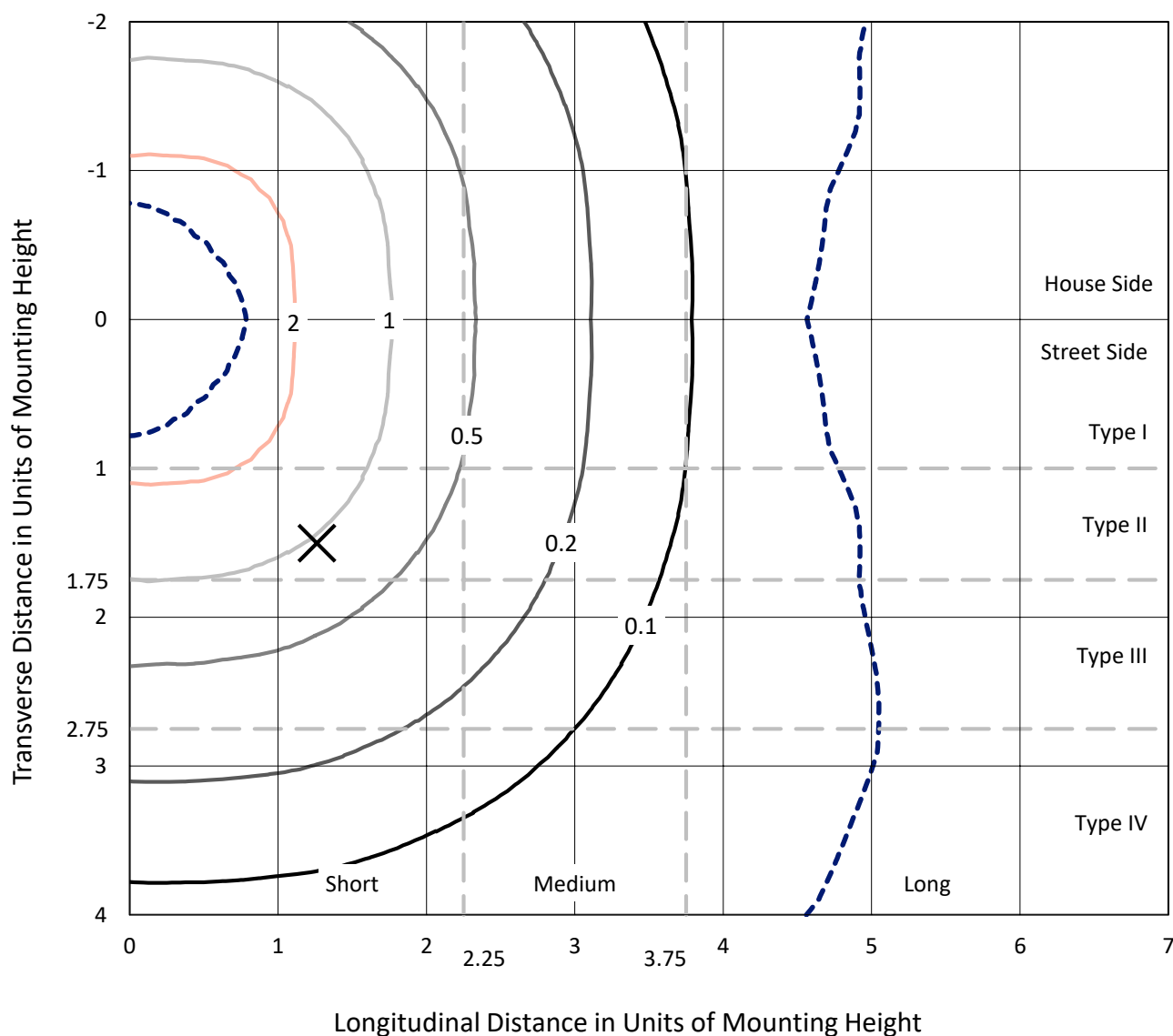
REPORT NUMBER: P197732

CATALOG NUMBER: TT-C2-LED-E1-WQ-LWR-LW-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

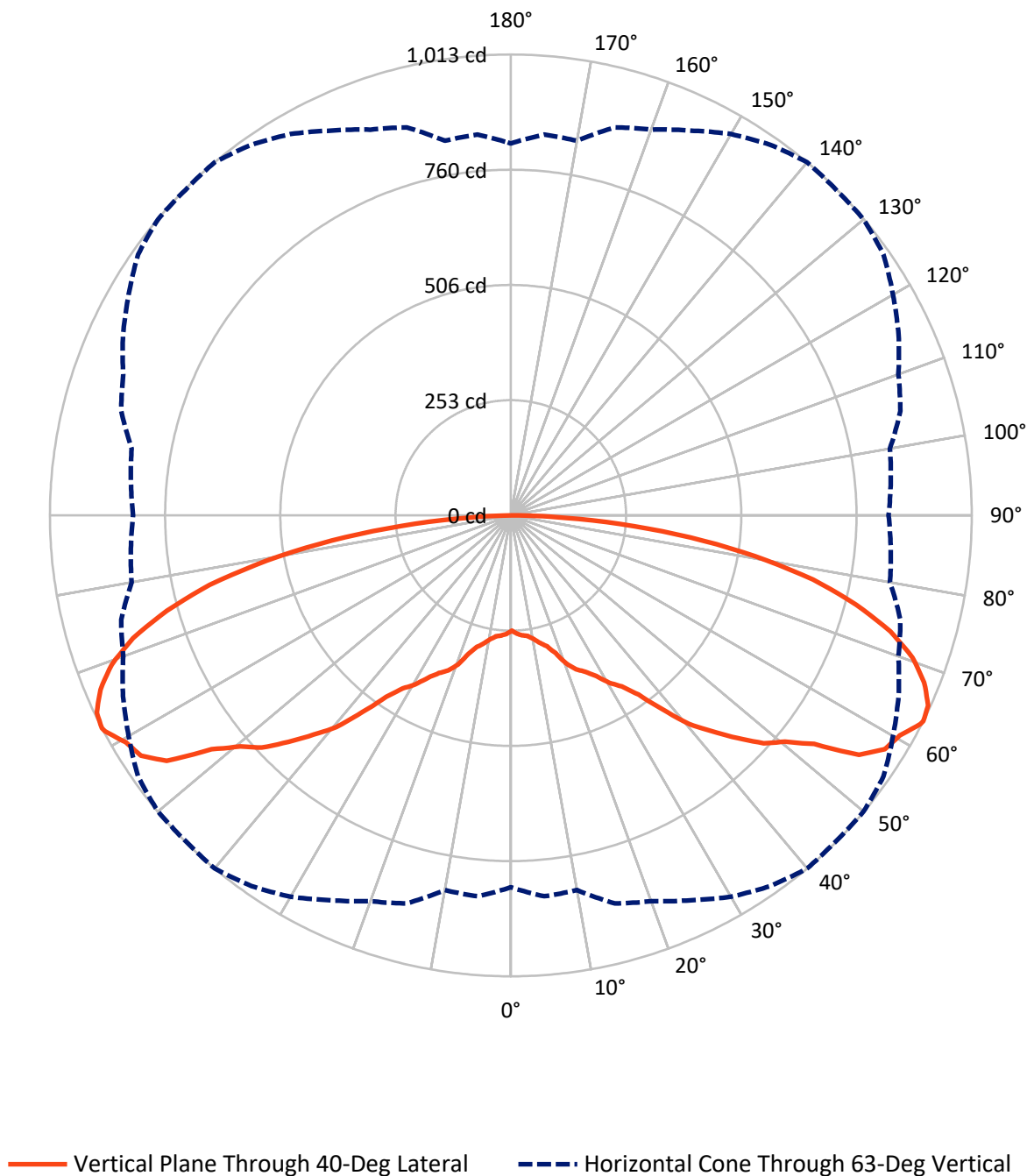


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197732

CATALOG NUMBER: TT-C2-LED-E1-WQ-LWR-LW-7060

Luminous Intensity Polar Plot



REPORT NUMBER: P197732

CATALOG NUMBER: TT-C2-LED-E1-WQ-LWR-LW-7060

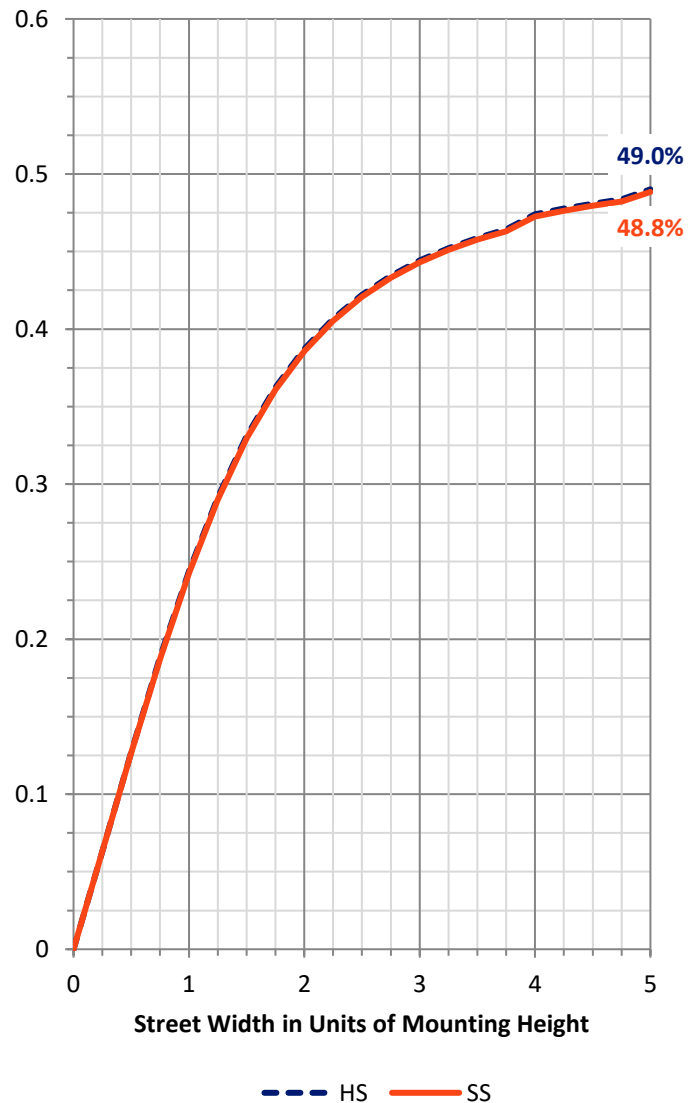
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1859.4	0.0	1859.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1859.4	0.0	1859.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	3718.8	0.0	3718.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	0.7
10°-20°	86.9	2.3
20°-30°	176.6	4.7
30°-40°	304.4	8.2
40°-50°	512.8	13.8
50°-60°	755.1	20.3
60°-70°	897.9	24.1
70°-80°	726.9	19.5
80°-90°	232.6	6.3
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°	3718.8	100.0
0°-180°	3718.8	100.0

Coefficient of Utilization



REPORT NUMBER: P197732

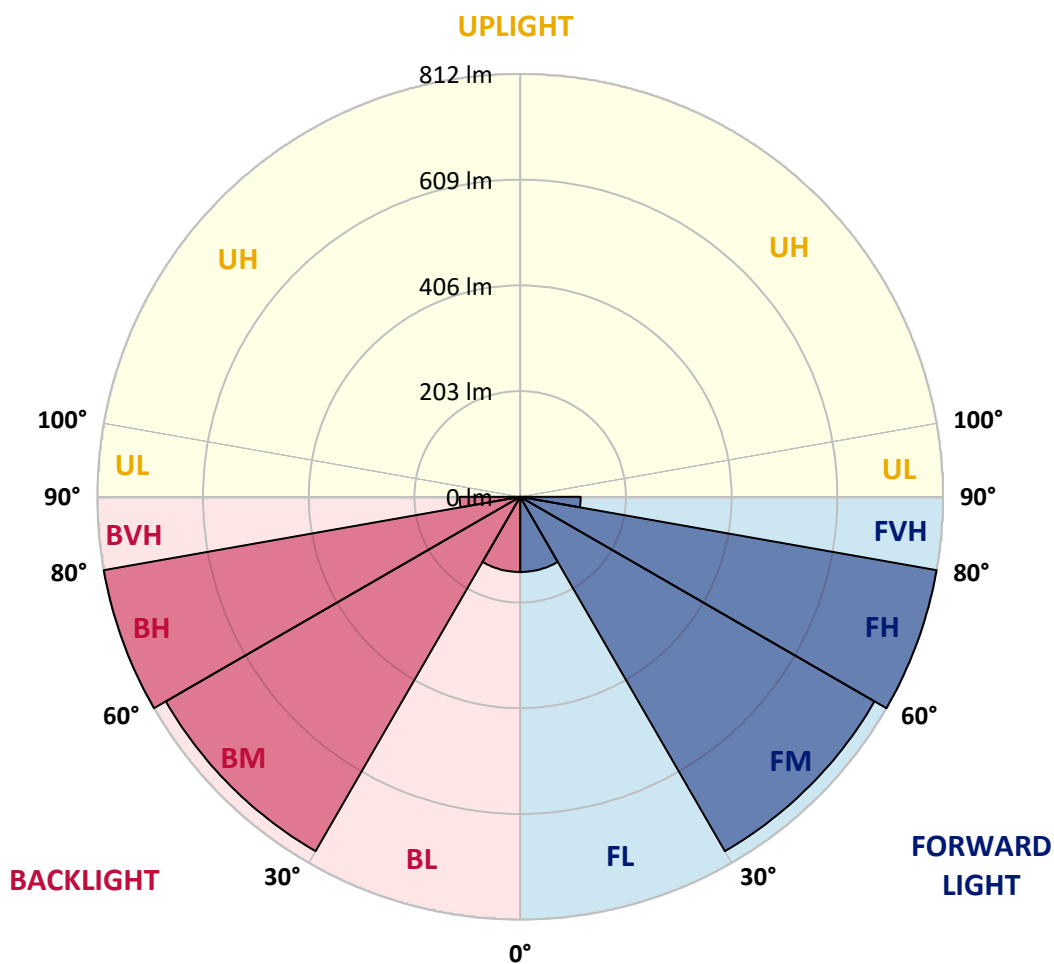
CATALOG NUMBER: TT-C2-LED-E1-WQ-LWR-LW-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	144.5	3.9			
FM	(30°-60°)	786.2	21.1			
FH	(60°-80°)	812.4	21.8			G1/1800
FVH	(80°-90°)	116.3	3.1			G2/225
BL	(0°-30°)	144.5	3.9	B1/500		
BM	(30°-60°)	786.2	21.1	B1/1000		
BH	(60°-80°)	812.4	21.8	B2/1000		G1/1800
BVH	(80°-90°)	116.3	3.1			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



REPORT NUMBER: P197732

CATALOG NUMBER: TT-C2-LED-E1-WQ-LWR-LW-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2
2.5°	261.1	261.1	261.1	261.1	261.1	261.1	260.4	261.1	260.4	260.4	260.4
5°	266.2	266.2	266.2	266.2	265.4	265.4	264.7	264.7	264.7	264.0	264.7
7.5°	268.3	268.3	268.3	268.3	267.6	267.6	267.6	267.6	267.6	267.6	267.6
10°	273.3	273.3	274.1	274.8	276.2	276.2	276.2	277.0	276.2	276.2	276.2
12.5°	284.1	283.4	284.8	286.3	287.8	288.5	288.5	288.5	287.8	287.8	288.5
15°	299.3	297.8	298.5	299.3	300.0	300.7	300.7	300.0	298.5	298.5	298.5
17.5°	318.6	316.5	315.8	315.1	315.1	316.5	317.9	317.2	317.9	317.2	317.9
20°	341.7	340.2	340.2	340.2	340.9	343.8	346.7	348.2	347.4	346.0	348.2
22.5°	356.7	357.5	361.1	360.4	359.7	362.6	366.1	369.0	367.5	365.4	366.8
25°	373.4	373.4	378.3	380.5	378.3	378.3	379.8	381.9	380.5	379.1	380.5
27.5°	392.0	392.0	394.1	396.4	394.9	394.9	397.1	400.7	399.9	399.2	399.9
30°	414.3	411.5	409.3	412.9	416.5	417.2	419.3	425.1	426.5	425.8	427.3
32.5°	435.2	430.8	432.3	434.5	442.3	445.3	444.5	448.9	448.1	446.0	448.9
35°	455.3	460.4	463.2	467.5	470.5	474.0	474.0	482.0	483.4	481.2	483.4
37.5°	494.2	496.3	504.2	505.0	508.6	522.2	523.7	534.5	540.2	537.3	538.0
40°	547.4	546.7	552.4	561.0	568.3	585.5	590.6	597.7	602.8	600.6	603.5
42.5°	590.6	584.8	589.1	607.8	615.8	628.7	635.1	638.7	648.1	645.2	648.8
45°	621.5	623.6	629.4	648.1	653.2	663.9	679.0	685.5	697.7	694.1	696.3
47.5°	651.7	661.7	666.8	675.4	691.3	705.6	724.4	730.8	748.1	746.6	744.5
50°	691.3	699.2	704.9	711.4	733.0	756.7	772.5	775.4	781.1	776.9	784.0
52.5°	733.7	733.0	738.0	756.0	786.2	795.5	809.2	822.2	834.4	838.7	834.4
55°	789.8	771.8	792.7	818.5	831.5	853.8	886.9	904.9	928.6	932.3	925.0
57.5°	812.8	812.8	834.4	849.5	873.3	912.8	948.1	956.7	968.9	962.4	969.7
60°	810.0	837.3	837.3	863.9	902.7	938.0	950.9	965.3	981.9	981.2	981.2
62.5°	813.6	840.1	832.9	879.0	902.7	931.5	960.3	986.9	1009.9	1009.2	1008.5
63°	817.1	840.1	835.9	882.6	902.0	933.0	967.5	994.1	1012.8	1011.3	1012.0
65°	827.9	821.5	847.4	876.8	899.1	945.2	973.9	994.8	1007.8	1007.1	1007.1
67.5°	807.7	792.7	829.3	840.9	883.3	924.3	946.6	970.4	979.7	979.7	978.2
70°	745.9	752.4	777.6	796.3	839.4	876.1	894.8	925.0	936.5	936.5	935.8
72.5°	683.3	694.1	711.4	738.0	779.0	807.7	830.1	857.4	872.5	871.8	871.8
75°	603.5	613.5	633.7	658.9	694.8	722.9	740.9	766.8	784.0	790.5	783.3
77.5°	513.6	516.4	535.2	561.0	592.7	612.1	639.5	664.7	679.0	678.3	676.2
80°	404.2	407.9	423.7	453.1	470.5	493.5	518.7	532.3	544.5	544.5	543.1
82.5°	279.1	287.0	302.8	322.2	340.2	360.4	374.1	387.7	397.8	397.1	394.9
85°	157.5	161.1	176.2	188.5	202.2	215.1	224.4	233.0	241.7	241.7	240.3
87.5°	47.5	42.4	51.1	56.1	63.3	69.8	74.1	82.7	88.4	82.0	82.0
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: P197732

CATALOG NUMBER: TT-C2-LED-E1-WQ-LWR-LW-7060

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	253.2	253.2	253.2	253.2	253.2	253.2	253.2	253.2
2.5°	261.1	261.1	261.1	261.1	261.1	261.1	261.1	261.1
5°	264.7	265.4	265.4	266.2	266.2	266.2	266.2	266.2
7.5°	267.6	267.6	267.6	267.6	268.3	268.3	268.3	268.3
10°	276.2	277.0	276.2	276.2	274.8	274.1	274.1	274.1
12.5°	288.5	289.2	289.2	287.8	286.3	284.8	284.1	283.4
15°	300.0	302.1	300.7	300.0	298.5	299.3	299.3	300.0
17.5°	317.9	318.6	316.5	315.1	314.4	315.8	317.2	317.9
20°	348.9	347.4	343.1	341.7	340.2	340.2	341.7	341.7
22.5°	368.3	364.7	361.8	360.4	360.4	360.4	358.2	355.3
25°	381.9	379.8	377.6	379.1	380.5	378.3	373.4	372.6
27.5°	400.7	396.4	395.6	394.9	395.6	394.1	393.4	390.6
30°	425.1	419.3	417.9	416.5	412.2	410.7	412.2	414.3
32.5°	448.1	444.5	446.0	443.1	435.2	432.3	433.8	433.1
35°	481.2	474.7	474.7	469.0	466.8	466.1	460.4	455.3
37.5°	533.7	525.1	522.9	510.0	504.2	505.7	497.8	492.0
40°	597.7	591.3	585.5	571.1	563.2	553.1	548.1	548.1
42.5°	640.2	635.8	628.0	617.9	609.2	592.0	585.5	589.1
45°	686.9	681.2	664.7	654.6	646.6	634.4	627.3	620.0
47.5°	734.4	726.5	707.1	694.1	675.4	671.8	663.9	653.9
50°	776.2	773.3	759.6	738.0	714.3	708.5	701.4	692.0
52.5°	827.2	810.0	798.5	789.1	762.5	743.8	733.7	738.0
55°	910.7	889.1	859.6	830.1	824.4	802.0	776.9	790.5
57.5°	958.9	946.6	924.3	877.5	854.5	839.4	822.9	810.7
60°	970.4	948.1	943.0	907.8	871.1	839.4	845.9	817.1
62.5°	992.7	962.4	934.4	906.3	884.1	840.9	839.4	824.4
63°	999.8	969.7	940.1	906.3	886.2	845.9	838.0	830.1
65°	998.4	972.5	950.2	906.3	876.1	860.3	821.5	839.4
67.5°	971.1	949.5	923.6	893.4	843.0	830.8	803.5	807.0
70°	927.2	899.1	874.7	846.7	806.3	778.3	761.8	748.1
72.5°	858.9	833.7	807.7	781.9	745.9	712.1	700.6	685.5
75°	768.2	743.8	720.0	695.6	661.7	631.6	619.3	608.5
77.5°	664.7	643.8	610.0	586.9	567.6	535.2	523.7	512.1
80°	530.2	520.1	495.6	465.4	455.3	423.7	415.0	399.9
82.5°	385.6	375.5	356.0	335.2	323.0	306.4	292.0	282.0
85°	235.2	224.4	214.4	195.6	188.5	176.2	164.7	159.0
87.5°	84.9	76.2	68.4	59.7	55.4	46.8	45.3	41.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)