

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: P197828

Luminaire Tested: **TT-C2-LED-E1-WQ-CG-MS/DIM-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115513)
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-CG-MS/DIM-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3808.2 lumens
Efficiency: N/A
Efficacy: 112.0 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

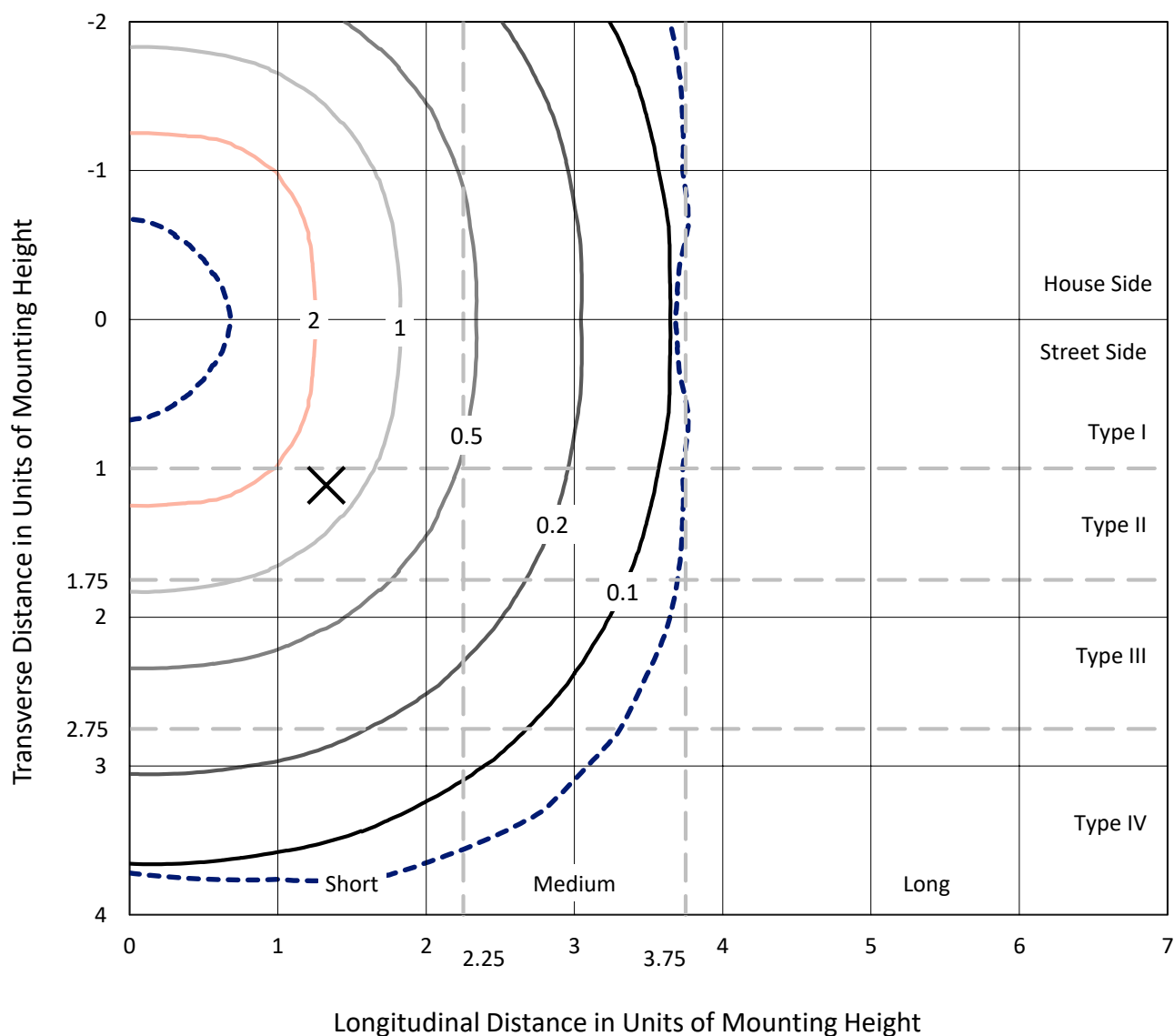


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

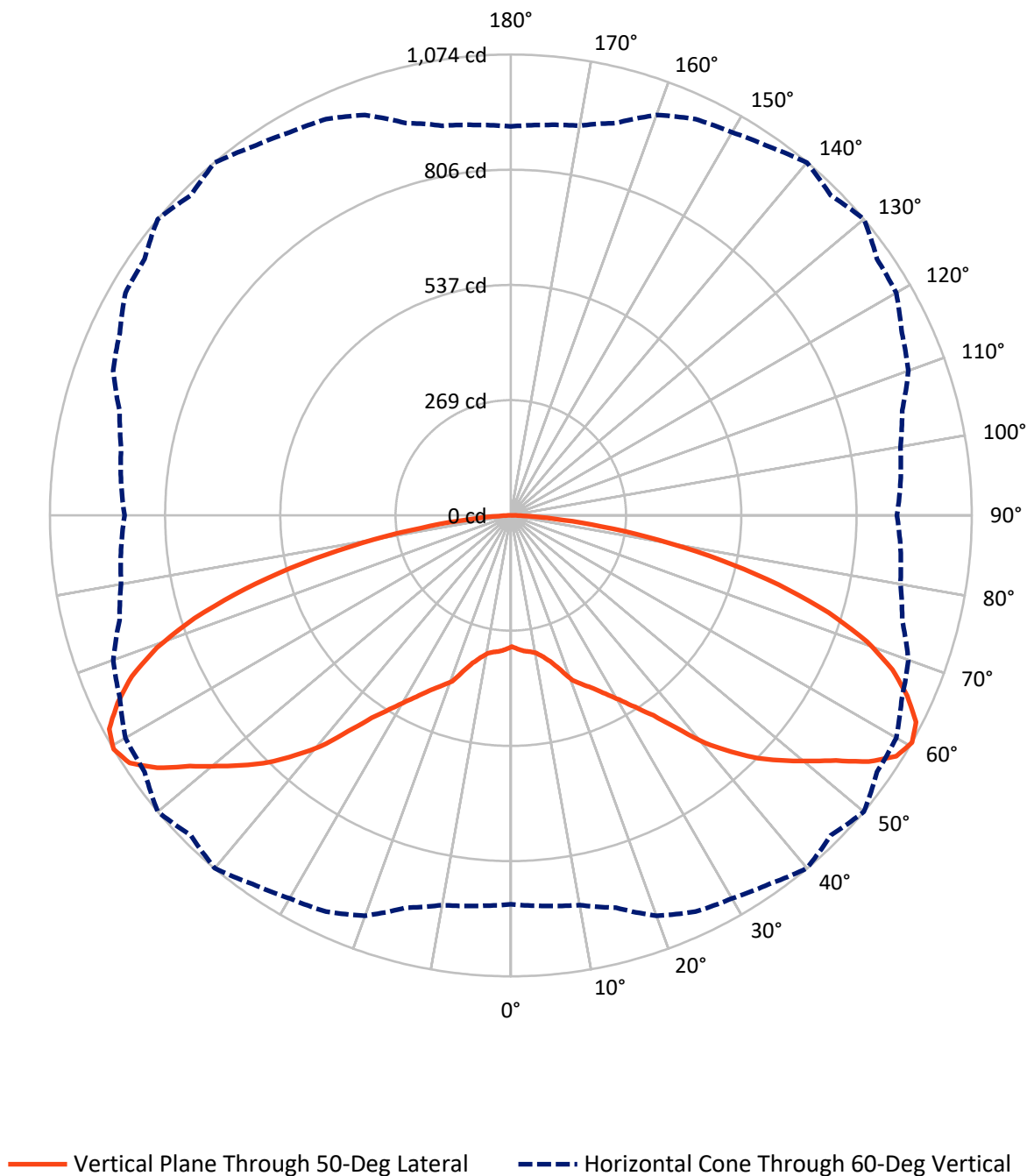


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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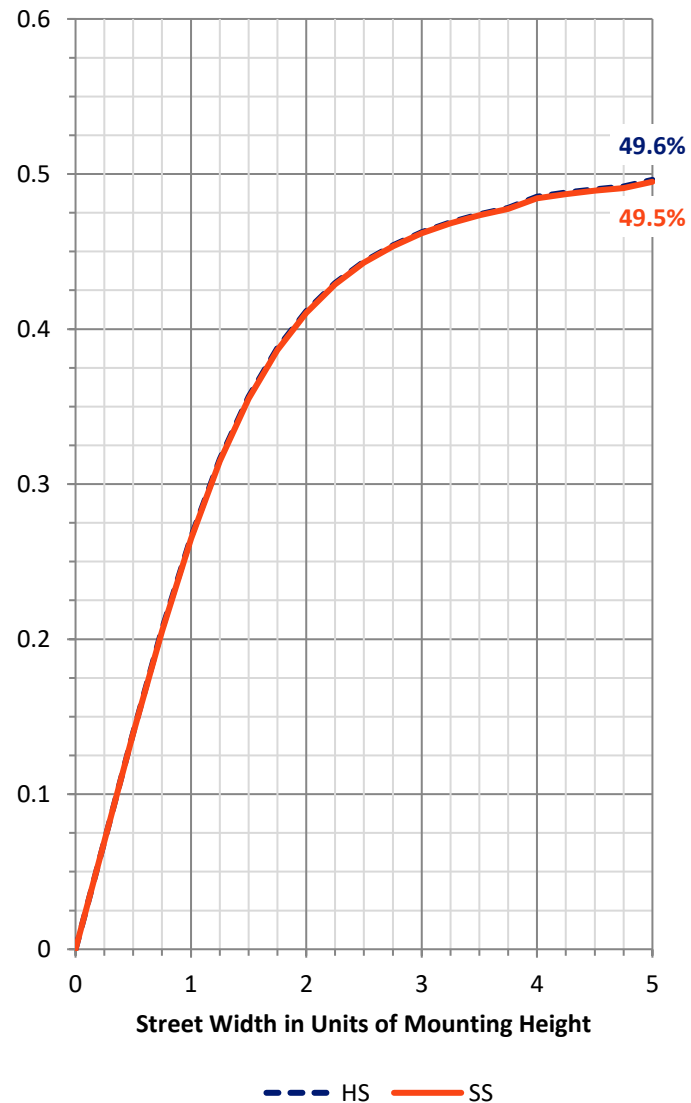
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1904.1	0.0	1904.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1904.1	0.0	1904.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	3808.2	0.0	3808.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.4	0.8
10°-20°	102.7	2.7
20°-30°	207.4	5.4
30°-40°	358.5	9.4
40°-50°	595.5	15.6
50°-60°	846.3	22.2
60°-70°	924.4	24.3
70°-80°	614.1	16.1
80°-90°	128.9	3.4
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°	3808.2	100.0
0°-180°	3808.2	100.0

Coefficient of Utilization



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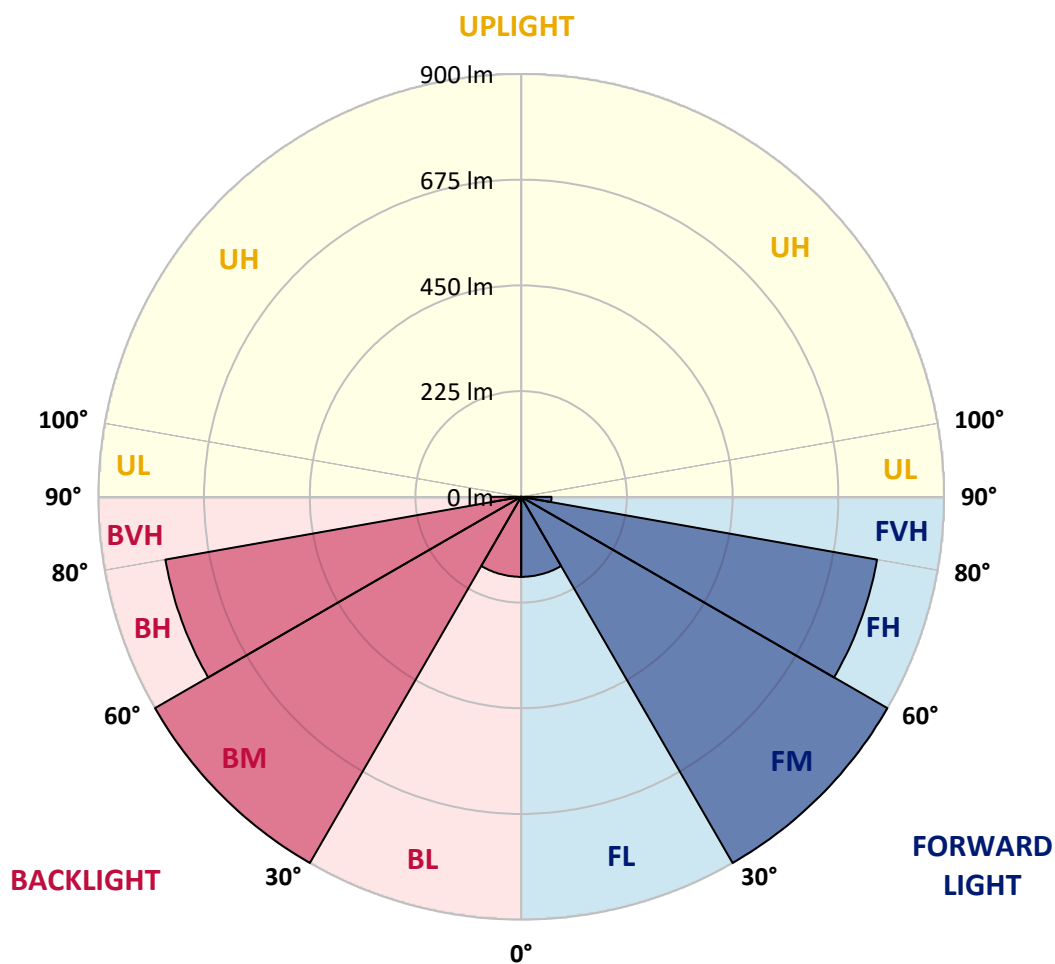
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	170.3	4.5			
FM	(30°-60°)	900.1	23.6			
FH	(60°-80°)	769.2	20.2			G1/1800
FVH	(80°-90°)	64.5	1.7			G1/100
BL	(0°-30°)	170.3	4.5	B1/500		
BM	(30°-60°)	900.1	23.6	B1/1000		
BH	(60°-80°)	769.2	20.2	B2/1000		G1/1800
BVH	(80°-90°)	64.5	1.7			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°	305.6	305.6	305.6	305.6	305.6	305.6	305.6	305.6	305.6	305.6	305.6
2.5°	311.9	311.9	311.9	311.9	311.9	311.9	311.9	311.9	311.1	311.9	311.9
5°	315.0	315.0	315.0	315.8	315.8	315.8	316.6	316.6	316.6	317.4	317.4
7.5°	317.4	317.4	317.4	317.4	318.2	318.2	318.2	318.9	318.9	319.7	320.5
10°	327.6	327.6	327.6	327.6	327.6	326.8	326.8	326.8	326.0	326.0	326.0
12.5°	340.2	341.0	341.8	341.8	341.8	341.8	340.2	338.6	338.6	338.6	338.6
15°	352.0	352.8	353.6	355.2	356.0	356.7	356.7	356.7	356.7	356.7	355.2
17.5°	370.9	371.7	371.7	372.5	373.3	373.3	374.1	376.4	379.6	381.2	379.6
20°	400.1	401.6	402.4	402.4	403.2	402.4	404.0	405.6	407.9	409.5	410.3
22.5°	421.3	422.9	425.3	425.3	425.3	424.5	426.0	426.8	426.0	426.0	427.6
25°	437.9	439.4	441.0	441.8	443.4	446.5	449.7	449.7	447.3	446.5	446.5
27.5°	459.1	461.5	461.5	462.3	463.8	466.2	469.4	471.7	473.3	471.7	470.9
30°	486.7	488.3	489.0	488.3	491.4	492.2	493.0	494.6	499.3	502.4	498.5
32.5°	507.9	510.3	512.7	515.8	522.9	526.1	525.3	526.8	528.4	531.6	532.4
35°	540.2	544.2	545.0	547.3	556.0	560.7	567.8	571.7	570.9	567.0	572.5
37.5°	589.1	593.8	594.6	598.5	607.2	611.1	619.0	629.2	631.6	626.1	629.2
40°	640.2	646.5	652.1	660.7	674.9	679.6	689.1	694.6	702.5	703.2	697.7
42.5°	683.6	690.6	690.6	705.6	721.4	734.7	746.6	747.3	752.9	760.7	752.9
45°	730.0	735.5	737.9	750.5	759.9	777.3	794.6	800.9	803.3	804.8	807.2
47.5°	772.5	779.6	782.0	793.0	803.3	819.0	830.0	848.9	853.7	847.4	853.7
50°	799.3	807.2	813.5	836.3	854.4	867.8	877.3	893.8	903.3	898.5	899.3
52.5°	841.1	843.4	849.7	862.3	888.3	924.5	935.6	941.1	954.5	961.5	948.9
55°	897.8	905.6	910.4	925.3	938.7	964.7	1006.4	1015.1	1011.9	1034.0	1012.7
57.5°	907.2	919.0	934.0	962.3	986.0	1000.1	1026.1	1056.0	1055.3	1058.4	1059.2
60°	906.4	913.5	922.2	946.6	993.0	1019.0	1030.8	1049.0	1073.4	1054.5	1074.2
62.5°	900.9	911.1	920.6	937.9	963.1	1000.1	1033.2	1030.8	1063.9	1049.0	1060.0
65°	867.8	877.3	894.6	917.4	948.2	965.5	998.6	1019.8	1015.1	1035.6	1015.1
67.5°	810.3	819.0	833.2	860.0	892.2	917.4	929.3	964.7	960.8	983.6	959.2
70°	731.6	742.6	759.2	778.1	809.6	836.3	849.7	872.6	883.6	882.0	880.4
72.5°	637.1	646.5	659.9	680.4	707.2	733.2	743.4	760.7	778.8	773.3	774.9
75°	531.6	539.4	549.7	562.3	587.5	608.0	619.8	635.5	649.7	645.8	644.2
77.5°	409.5	419.0	430.0	441.8	452.0	470.9	479.6	490.6	502.4	500.1	500.9
80°	286.7	294.5	301.6	314.2	322.1	328.4	337.8	342.6	351.2	349.7	352.0
82.5°	174.8	180.3	185.1	191.4	198.5	196.9	197.7	203.2	210.3	206.3	212.6
85°	85.8	85.1	89.8	91.4	96.1	95.3	94.5	97.7	101.6	99.2	99.2
87.5°	22.1	22.1	22.1	22.8	25.2	27.6	25.2	26.8	28.4	29.1	28.4
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°	305.6	305.6	305.6	305.6	305.6	305.6	305.6	305.6
2.5°	311.1	311.9	311.1	311.9	311.9	311.9	311.9	311.1
5°	317.4	316.6	316.6	316.6	315.8	315.0	315.0	315.0
7.5°	320.5	320.5	319.7	318.9	318.2	318.2	319.7	318.9
10°	327.6	328.4	329.2	330.0	329.2	328.4	328.4	327.6
12.5°	338.6	339.4	341.0	342.6	342.6	341.8	340.2	339.4
15°	354.4	353.6	354.4	356.0	356.0	353.6	351.2	350.4
17.5°	376.4	374.1	372.5	372.5	374.1	371.7	369.3	370.1
20°	407.1	403.2	402.4	400.1	402.4	402.4	398.5	398.5
22.5°	429.2	426.0	422.9	420.5	423.7	425.3	421.3	418.2
25°	449.7	448.9	444.2	441.8	441.8	442.6	437.1	437.9
27.5°	470.1	470.1	467.0	463.1	461.5	463.8	459.1	457.5
30°	494.6	492.2	494.6	489.0	485.1	487.5	487.5	484.3
32.5°	526.1	522.9	525.3	519.0	513.5	512.7	508.7	504.0
35°	570.9	563.1	559.1	556.0	545.0	544.2	543.4	539.4
37.5°	627.6	617.4	608.7	609.5	593.8	589.8	589.8	584.3
40°	695.4	689.1	676.5	671.7	656.0	645.8	645.0	634.7
42.5°	742.6	745.0	728.4	717.4	704.8	689.1	689.9	678.8
45°	794.6	789.9	774.9	756.8	751.3	734.0	734.7	723.7
47.5°	844.2	826.9	819.0	799.3	790.7	771.0	773.3	765.5
50°	893.0	874.1	865.5	844.2	830.0	809.6	807.2	790.7
52.5°	945.0	926.9	915.1	884.4	865.5	849.7	843.4	835.5
55°	1012.7	994.6	965.5	935.6	921.4	897.0	894.6	884.4
57.5°	1042.7	1028.5	997.8	978.1	949.7	924.5	915.1	895.4
60°	1041.9	1037.1	1005.6	986.0	944.2	922.2	911.9	900.1
62.5°	1033.2	1027.7	990.7	968.6	930.8	911.9	904.1	889.1
65°	1015.9	997.0	963.9	945.8	904.8	888.3	871.0	857.6
67.5°	967.1	927.7	912.7	889.9	849.7	832.4	815.9	802.5
70°	875.7	846.6	833.2	804.8	770.2	759.2	738.7	723.7
72.5°	759.2	743.4	729.2	698.5	674.1	663.1	642.6	630.0
75°	630.0	620.6	600.9	578.0	556.0	552.0	530.0	525.3
77.5°	489.0	480.4	464.6	448.1	437.9	430.0	410.3	408.7
80°	342.6	337.1	324.5	317.4	310.3	303.2	289.8	288.2
82.5°	202.4	198.5	199.2	192.2	188.2	186.6	176.4	177.2
85°	97.7	94.5	94.5	94.5	90.6	89.8	83.5	84.3
87.5°	28.4	25.2	25.2	25.2	23.6	23.6	20.5	21.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)