

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: P197751

Luminaire Tested: **TT-C1-LED-E1-WQ-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115468)
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-WQ-MS/DIM-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3356 lumens
Efficiency: N/A
Efficacy: 119.9 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): 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



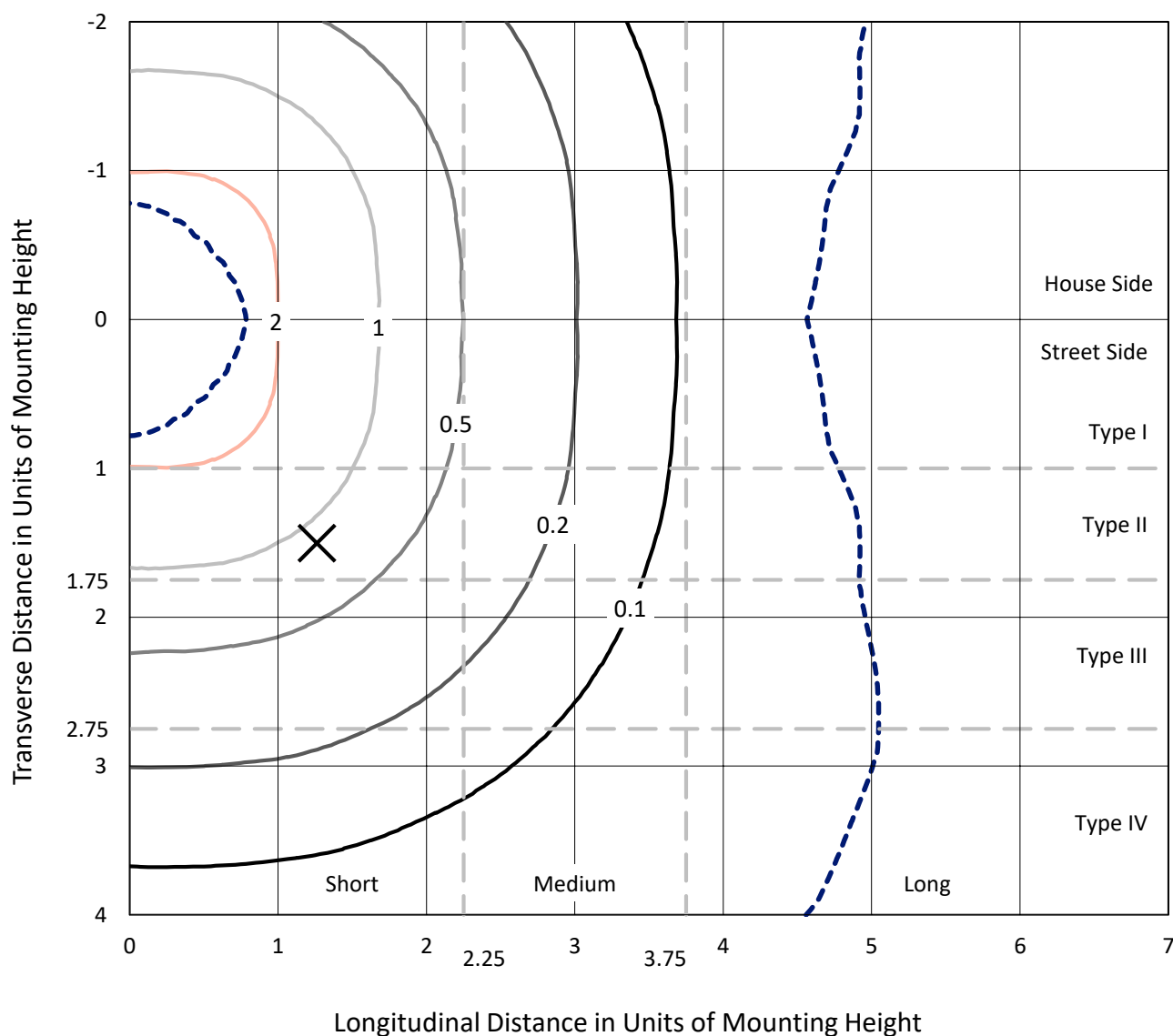
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

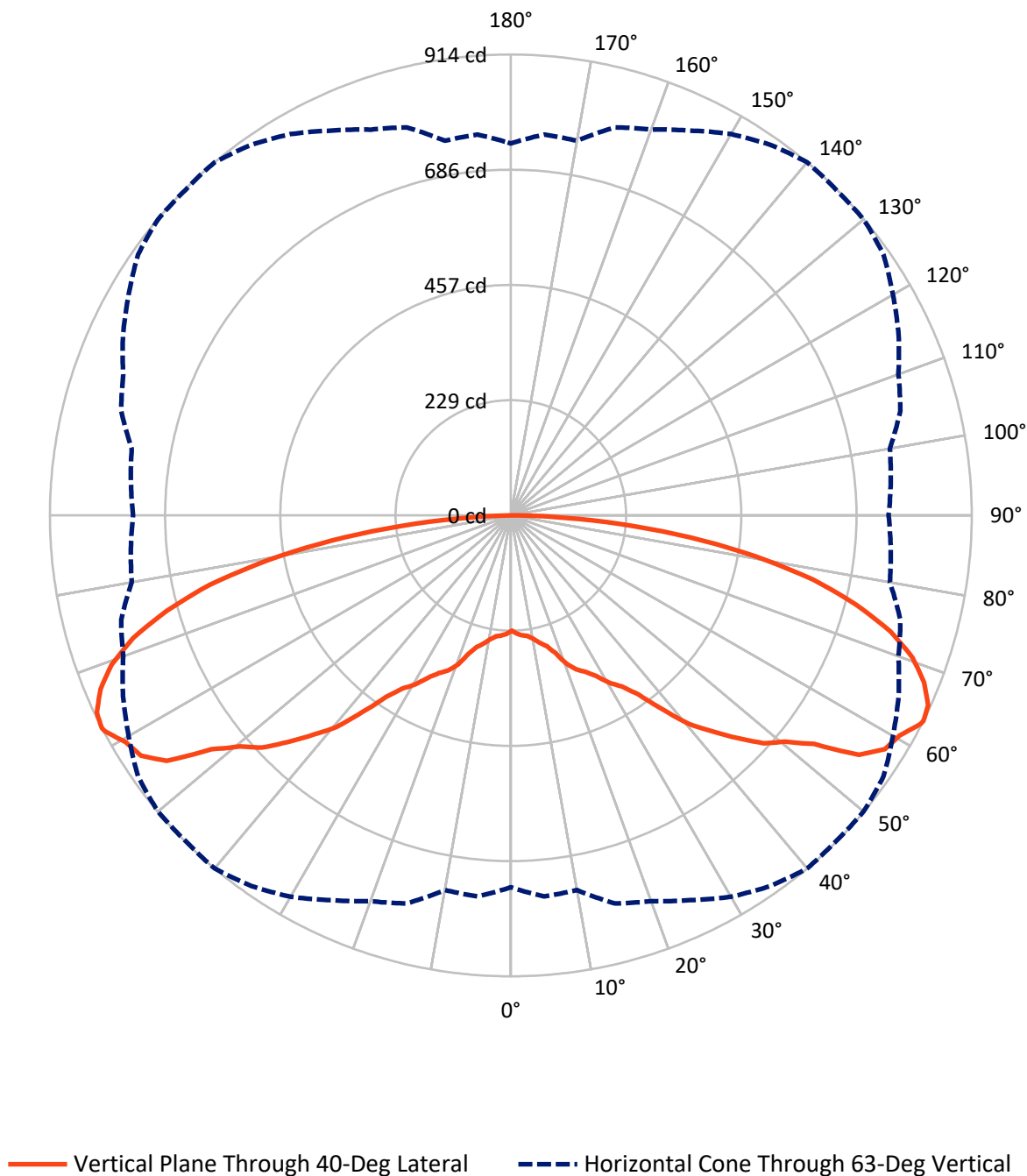


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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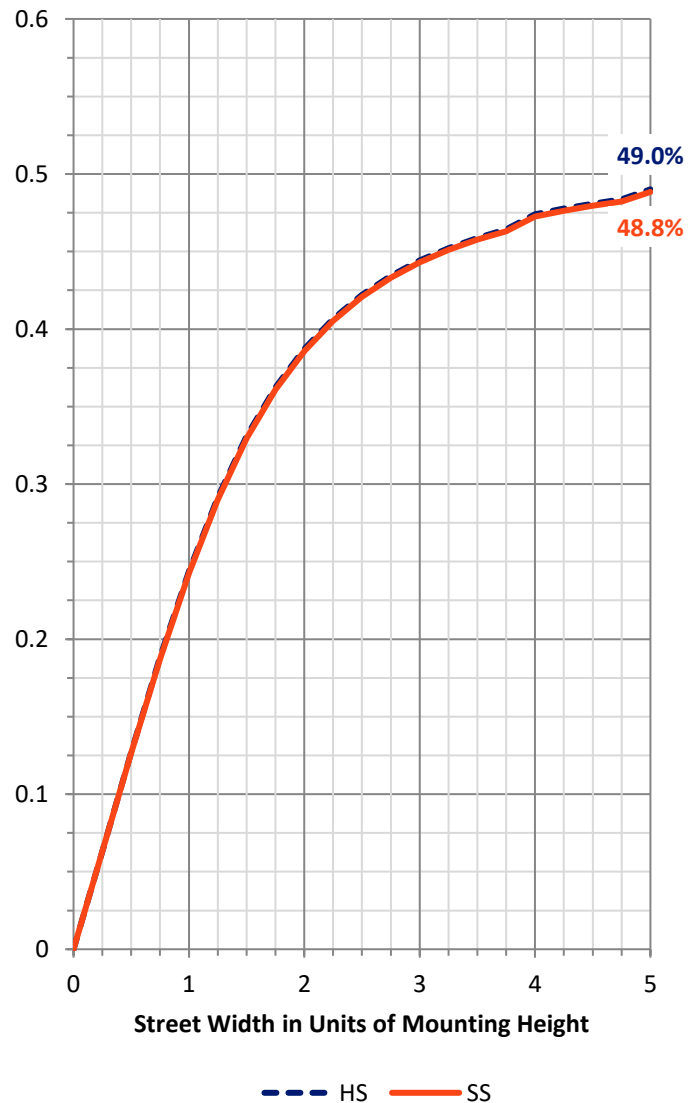
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1678.0	0.0	1678.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1678.0	0.0	1678.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3356.0	0.0	3356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.1	0.7
10°-20°	78.4	2.3
20°-30°	159.4	4.7
30°-40°	274.7	8.2
40°-50°	462.8	13.8
50°-60°	681.4	20.3
60°-70°	810.3	24.1
70°-80°	656.0	19.5
80°-90°	209.9	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°	3356.0	100.0
0°-180°	3356.0	100.0

Coefficient of Utilization



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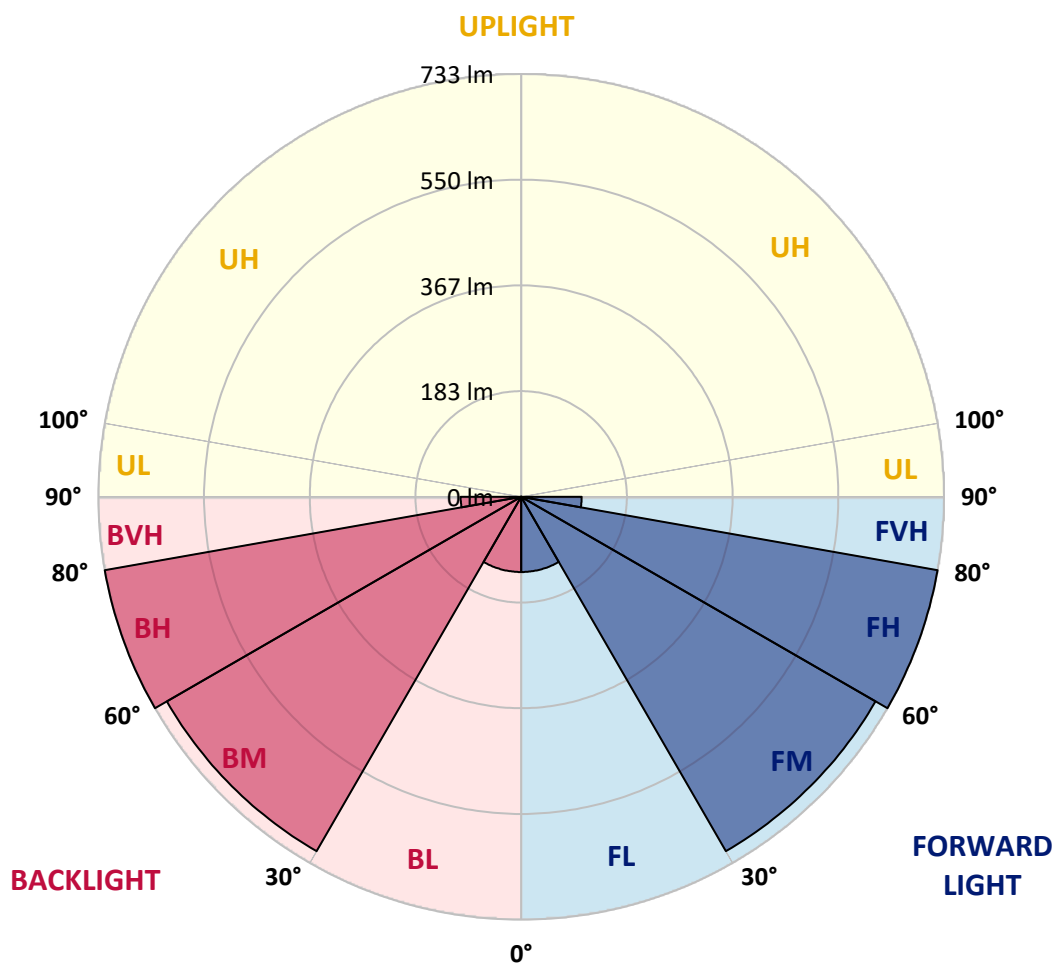
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	130.4	3.9			
FM	(30°-60°)	709.5	21.1			
FH	(60°-80°)	733.2	21.8			G1/1800
FVH	(80°-90°)	104.9	3.1			G2/225
BL	(0°-30°)	130.4	3.9	B1/500		
BM	(30°-60°)	709.5	21.1	B1/1000		
BH	(60°-80°)	733.2	21.8	B2/1000		G1/1800
BVH	(80°-90°)	104.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	228.5	228.5	228.5	228.5	228.5	228.5	228.5	228.5	228.5	228.5	228.5
2.5°	235.6	235.6	235.6	235.6	235.6	235.6	235.0	235.6	235.0	235.0	235.0
5°	240.2	240.2	240.2	240.2	239.6	239.6	238.9	238.9	238.9	238.2	238.9
7.5°	242.1	242.1	242.1	242.1	241.5	241.5	241.5	241.5	241.5	241.5	241.5
10°	246.7	246.7	247.3	248.0	249.2	249.2	249.2	249.9	249.2	249.2	249.2
12.5°	256.4	255.8	257.1	258.3	259.7	260.3	260.3	260.3	259.7	259.7	260.3
15°	270.0	268.8	269.4	270.0	270.7	271.4	271.4	270.7	269.4	269.4	269.4
17.5°	287.6	285.6	285.0	284.3	284.3	285.6	286.9	286.3	286.9	286.3	286.9
20°	308.3	307.0	307.0	307.0	307.7	310.3	312.9	314.2	313.5	312.3	314.2
22.5°	321.9	322.6	325.9	325.2	324.5	327.1	330.4	333.0	331.7	329.8	331.0
25°	336.9	336.9	341.5	343.4	341.5	341.5	342.7	344.7	343.4	342.1	343.4
27.5°	353.8	353.8	355.7	357.7	356.3	356.3	358.3	361.6	360.9	360.3	360.9
30°	373.9	371.3	369.4	372.6	375.9	376.5	378.5	383.6	385.0	384.3	385.6
32.5°	392.7	388.8	390.1	392.1	399.2	401.8	401.2	405.1	404.4	402.5	405.1
35°	410.9	415.4	418.0	421.9	424.5	427.8	427.8	434.9	436.2	434.3	436.2
37.5°	446.0	447.9	455.1	455.7	458.9	471.3	472.5	482.3	487.5	484.9	485.5
40°	494.0	493.3	498.6	506.3	512.8	528.4	533.0	539.4	544.0	542.0	544.6
42.5°	533.0	527.8	531.6	548.5	555.7	567.3	573.2	576.4	584.9	582.3	585.5
45°	560.8	562.8	568.0	584.9	589.4	599.1	612.8	618.6	629.6	626.4	628.4
47.5°	588.1	597.2	601.7	609.5	623.8	636.8	653.7	659.5	675.1	673.8	671.8
50°	623.8	631.0	636.1	642.0	661.5	682.9	697.1	699.7	705.0	701.1	707.6
52.5°	662.1	661.5	666.0	682.2	709.5	717.9	730.3	742.0	753.0	756.9	753.0
55°	712.7	696.5	715.3	738.7	750.4	770.5	800.4	816.6	838.0	841.3	834.8
57.5°	733.5	733.5	753.0	766.6	788.0	823.8	855.6	863.3	874.4	868.5	875.0
60°	730.9	755.6	755.6	779.6	814.7	846.5	858.2	871.1	886.0	885.4	885.4
62.5°	734.2	758.2	751.7	793.2	814.7	840.6	866.6	890.6	911.4	910.7	910.1
63°	737.4	758.2	754.3	796.5	814.0	841.9	873.1	897.1	914.0	912.7	913.3
65°	747.1	741.3	764.7	791.3	811.4	853.0	878.9	897.7	909.4	908.7	908.7
67.5°	728.9	715.3	748.5	758.8	797.1	834.1	854.2	875.7	884.1	884.1	882.8
70°	673.2	679.0	701.7	718.6	757.5	790.6	807.5	834.8	845.1	845.1	844.5
72.5°	616.7	626.4	642.0	666.0	703.0	728.9	749.1	773.8	787.4	786.7	786.7
75°	544.6	553.7	571.9	594.6	627.0	652.4	668.6	692.0	707.6	713.4	706.9
77.5°	463.5	466.1	483.0	506.3	534.9	552.4	577.1	599.8	612.8	612.1	610.2
80°	364.8	368.0	382.4	408.9	424.5	445.3	468.0	480.4	491.4	491.4	490.1
82.5°	251.8	259.0	273.3	290.8	307.0	325.2	337.6	349.9	359.0	358.3	356.3
85°	142.2	145.4	159.0	170.1	182.4	194.1	202.5	210.3	218.1	218.1	216.8
87.5°	42.8	38.3	46.1	50.7	57.1	62.9	66.9	74.6	79.9	74.0	74.0
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°	228.5	228.5	228.5	228.5	228.5	228.5	228.5	228.5
2.5°	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6
5°	238.9	239.6	239.6	240.2	240.2	240.2	240.2	240.2
7.5°	241.5	241.5	241.5	241.5	242.1	242.1	242.1	242.1
10°	249.2	249.9	249.2	249.2	248.0	247.3	247.3	247.3
12.5°	260.3	260.9	260.9	259.7	258.3	257.1	256.4	255.8
15°	270.7	272.6	271.4	270.7	269.4	270.0	270.0	270.7
17.5°	286.9	287.6	285.6	284.3	283.6	285.0	286.3	286.9
20°	314.8	313.5	309.7	308.3	307.0	307.0	308.3	308.3
22.5°	332.4	329.1	326.5	325.2	325.2	325.2	323.3	320.7
25°	344.7	342.7	340.8	342.1	343.4	341.5	336.9	336.2
27.5°	361.6	357.7	357.0	356.3	357.0	355.7	355.1	352.5
30°	383.6	378.5	377.1	375.9	371.9	370.7	371.9	373.9
32.5°	404.4	401.2	402.5	399.8	392.7	390.1	391.4	390.8
35°	434.3	428.4	428.4	423.2	421.3	420.6	415.4	410.9
37.5°	481.6	473.9	471.9	460.2	455.1	456.3	449.2	444.0
40°	539.4	533.6	528.4	515.4	508.3	499.2	494.6	494.6
42.5°	577.7	573.9	566.7	557.6	549.8	534.2	528.4	531.6
45°	619.9	614.8	599.8	590.7	583.5	572.5	566.0	559.6
47.5°	662.8	655.6	638.1	626.4	609.5	606.3	599.1	590.1
50°	700.4	697.8	685.5	666.0	644.6	639.4	632.9	624.4
52.5°	746.5	730.9	720.5	712.1	688.1	671.2	662.1	666.0
55°	821.8	802.3	775.7	749.1	743.9	723.8	701.1	713.4
57.5°	865.3	854.2	834.1	792.0	771.2	757.5	742.6	731.5
60°	875.7	855.6	851.0	819.2	786.1	757.5	763.3	737.4
62.5°	895.8	868.5	843.2	817.9	797.8	758.8	757.5	743.9
63°	902.3	875.0	848.4	817.9	799.7	763.3	756.2	749.1
65°	901.0	877.6	857.5	817.9	790.6	776.4	741.3	757.5
67.5°	876.3	856.8	833.5	806.2	760.8	749.7	725.1	728.4
70°	836.7	811.4	789.4	764.0	727.7	702.3	687.5	675.1
72.5°	775.0	752.3	728.9	705.6	673.2	642.6	632.3	618.6
75°	693.3	671.2	649.8	627.7	597.2	569.9	558.9	549.2
77.5°	599.8	581.0	550.5	529.7	512.2	483.0	472.5	462.2
80°	478.4	469.3	447.2	420.0	410.9	382.4	374.5	360.9
82.5°	347.9	338.8	321.3	302.5	291.5	276.5	263.5	254.4
85°	212.3	202.5	193.4	176.5	170.1	159.0	148.7	143.5
87.5°	76.6	68.8	61.7	53.8	50.0	42.2	40.9	37.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)