

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: P197848

Luminaire Tested: **TT-C1-LED-E1-WQ-CG-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115498)
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-CG-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3209.5 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - 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



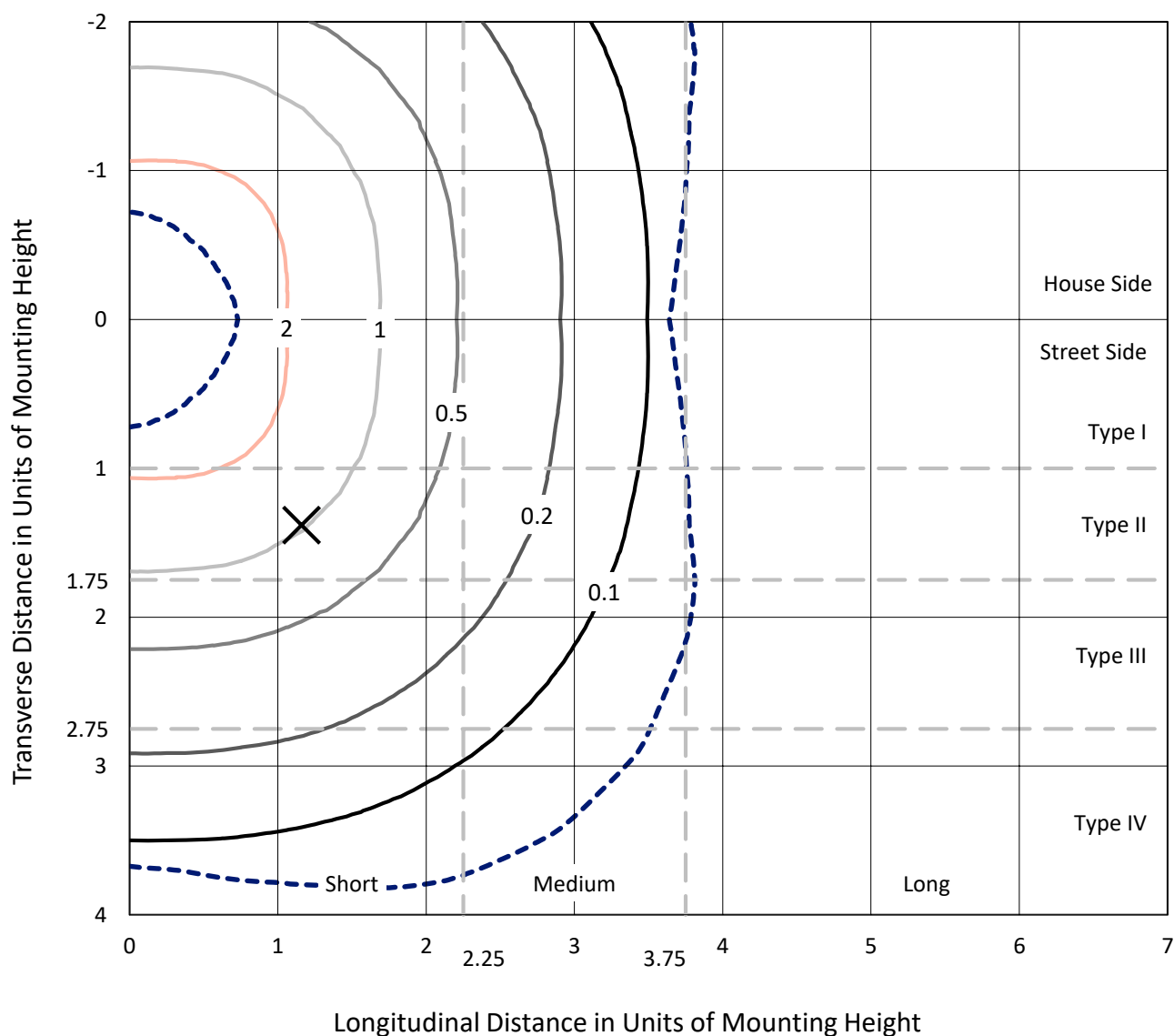
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

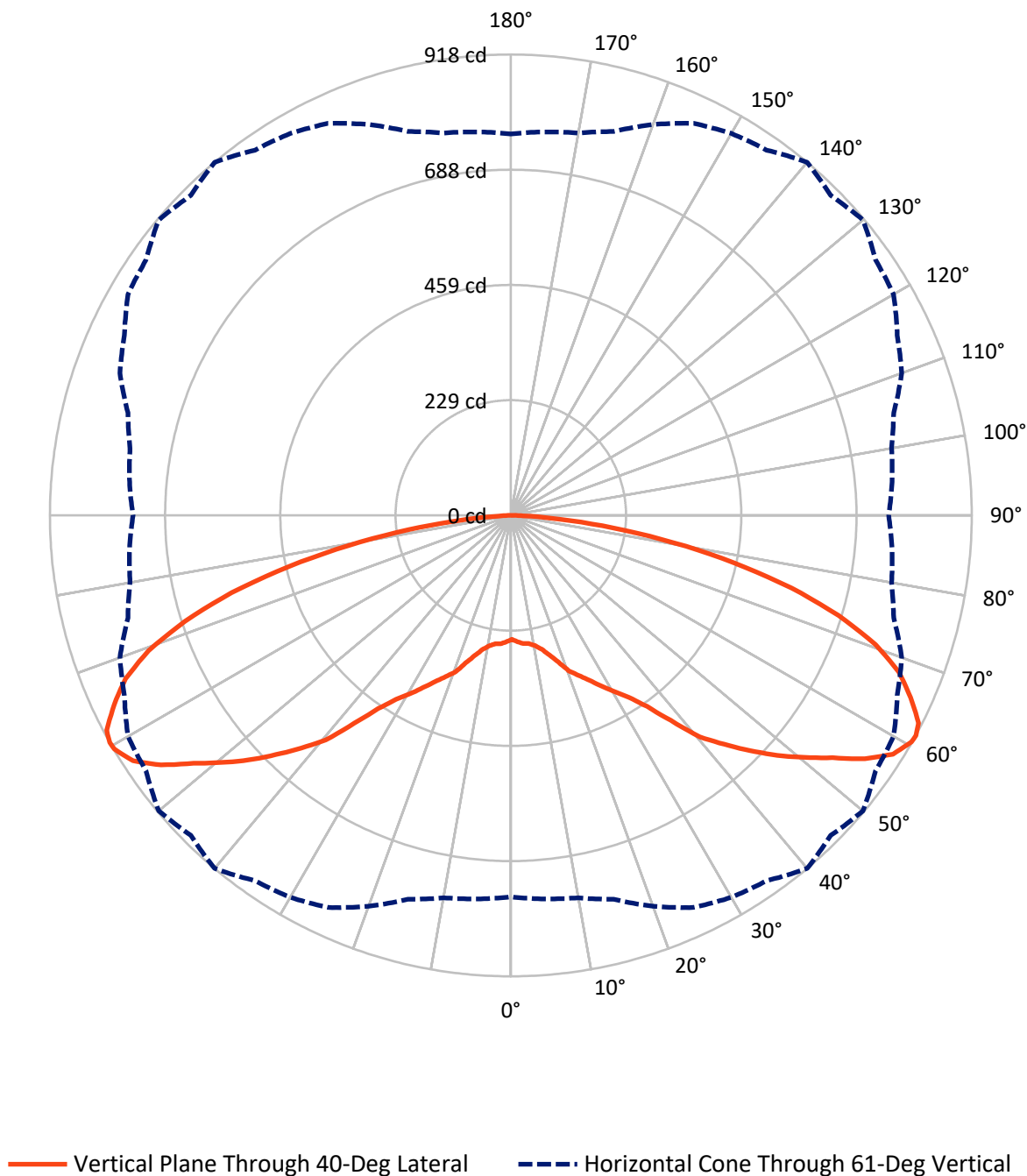


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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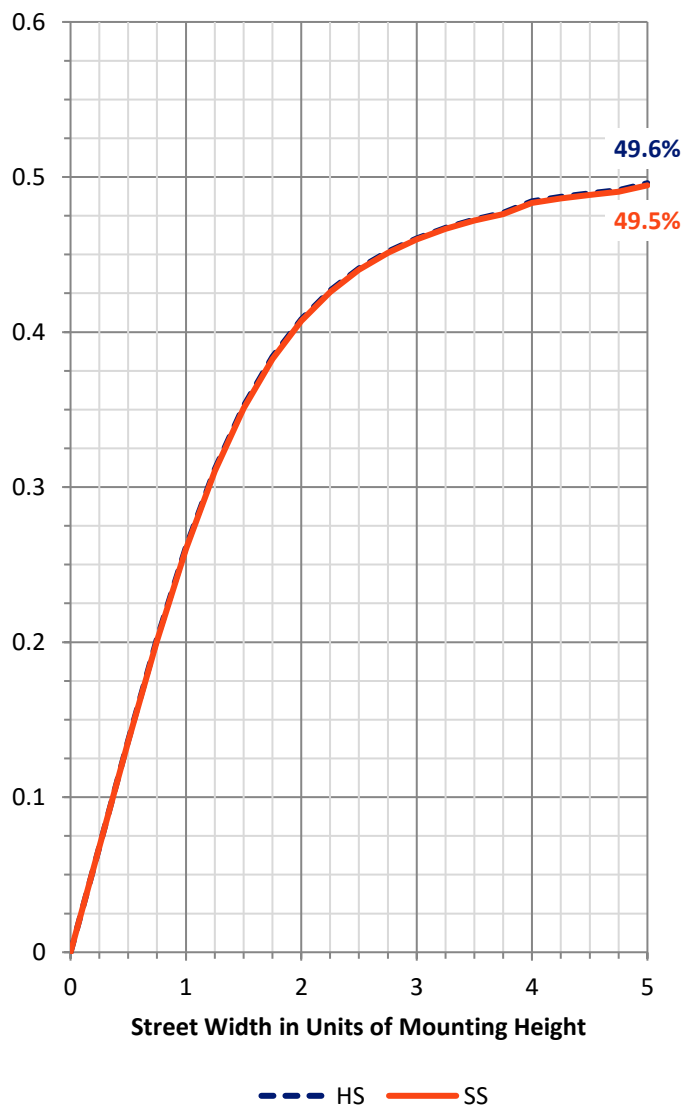
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1604.8	0.0	1604.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1604.8	0.0	1604.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	3209.5	0.0	3209.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.6	0.8
10°-20°	83.0	2.6
20°-30°	168.3	5.2
30°-40°	292.7	9.1
40°-50°	492.7	15.4
50°-60°	709.8	22.1
60°-70°	787.7	24.5
70°-80°	534.9	16.7
80°-90°	115.9	3.6
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°	3209.5	100.0
0°-180°	3209.5	100.0

Coefficient of Utilization



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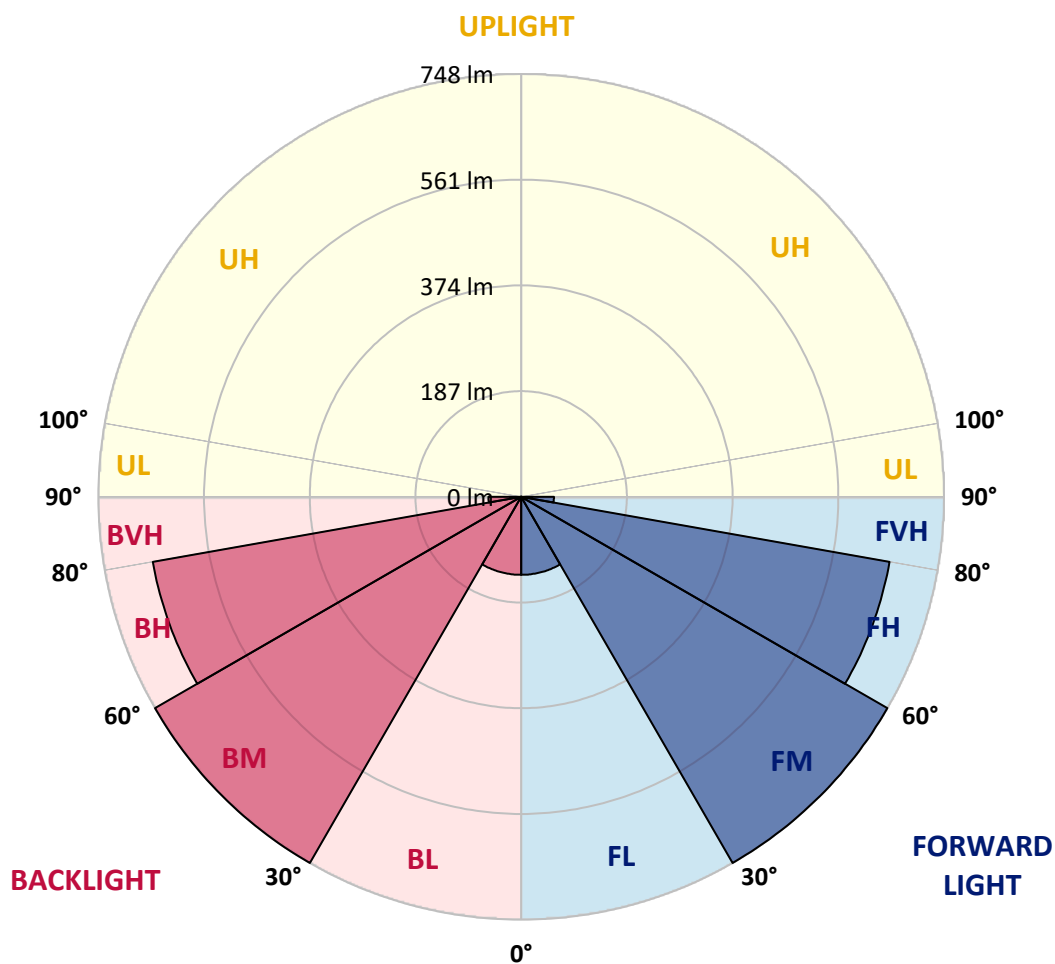
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	137.9	4.3			
FM	(30°-60°)	747.6	23.3			
FH	(60°-80°)	661.3	20.6			G1/1800
FVH	(80°-90°)	57.9	1.8			G1/100
BL	(0°-30°)	137.9	4.3	B1/500		
BM	(30°-60°)	747.6	23.3	B1/1000		
BH	(60°-80°)	661.3	20.6	B2/1000		G1/1800
BVH	(80°-90°)	57.9	1.8			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°	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6
2.5°	252.4	252.4	252.4	252.4	252.4	251.8	252.4	251.8	251.8	251.8	251.8
5°	254.4	255.0	255.0	255.0	255.0	255.7	255.7	256.3	256.3	256.3	256.3
7.5°	256.3	256.3	256.3	256.3	256.3	256.3	257.0	257.0	257.6	257.6	258.3
10°	264.1	264.1	264.7	264.7	264.1	264.1	264.1	263.4	263.4	262.8	262.8
12.5°	275.1	275.1	275.8	276.4	276.4	275.8	275.1	273.8	273.2	273.2	273.2
15°	283.6	284.2	285.5	286.8	287.5	287.5	288.1	288.1	288.1	287.5	286.8
17.5°	299.8	299.8	300.4	301.1	301.1	301.7	303.0	304.3	306.9	307.6	305.6
20°	323.1	323.8	325.7	325.1	325.1	326.4	327.7	328.3	330.3	331.6	331.6
22.5°	340.7	342.0	344.6	344.6	343.9	344.6	345.9	345.9	345.9	345.2	346.5
25°	354.3	355.6	357.5	357.5	358.8	362.1	366.0	365.3	363.4	363.4	362.7
27.5°	372.5	373.1	374.4	374.4	376.4	378.3	380.9	383.5	384.8	384.1	382.8
30°	395.2	396.5	397.8	395.8	399.1	401.0	402.3	402.3	407.5	410.1	405.6
32.5°	412.0	414.6	417.2	419.2	425.7	428.9	427.0	428.9	431.5	434.1	434.1
35°	439.9	442.5	444.5	445.8	452.3	456.8	462.0	467.2	466.6	464.6	468.5
37.5°	480.2	482.8	484.7	487.3	495.8	499.0	502.9	513.9	517.8	512.6	515.2
40°	523.0	527.5	534.0	541.8	554.2	558.0	564.5	572.3	579.5	582.1	575.6
42.5°	560.0	565.2	566.5	578.8	593.7	605.4	614.5	616.4	622.9	628.8	624.2
45°	599.6	604.1	607.4	617.7	626.2	642.4	657.3	664.5	667.7	667.1	672.2
47.5°	636.6	641.8	646.3	657.3	667.7	681.3	691.1	707.9	713.8	706.0	714.4
50°	659.3	665.8	671.6	692.4	710.5	724.8	732.6	746.9	757.3	752.1	754.0
52.5°	696.9	699.5	704.0	715.7	739.7	772.8	780.6	788.4	801.4	807.9	796.2
55°	744.9	752.1	758.6	773.5	785.8	810.5	846.2	855.9	855.2	875.4	857.2
57.5°	755.3	765.7	778.7	805.9	829.9	844.2	866.9	894.2	896.8	898.1	900.7
60°	756.6	763.1	771.5	794.2	836.4	862.4	875.4	892.9	916.2	899.4	916.9
61°	759.2	766.3	772.8	791.0	828.0	861.1	877.9	887.7	917.5	900.7	914.9
62.5°	754.7	763.1	772.8	790.3	815.0	848.7	881.2	881.2	911.0	900.0	907.8
65°	727.4	735.2	754.0	776.7	806.6	824.1	857.8	879.2	874.7	894.2	874.7
67.5°	681.3	687.8	704.0	730.6	763.1	787.8	803.3	837.7	833.2	853.3	831.2
70°	616.4	624.9	645.0	663.2	693.7	719.6	740.4	761.1	770.2	768.3	769.6
72.5°	538.6	544.4	562.6	582.7	606.7	635.9	654.7	667.7	682.0	681.3	683.9
75°	448.4	453.6	469.1	484.1	507.4	530.1	551.6	565.2	576.9	576.2	573.6
77.5°	345.9	351.7	369.2	382.2	393.2	418.5	434.8	443.8	453.6	453.6	454.9
80°	241.4	245.3	258.9	272.5	282.9	295.2	316.0	318.0	329.0	326.4	329.0
82.5°	145.4	147.9	158.3	166.1	173.3	184.9	194.7	198.6	205.0	202.5	206.3
85°	65.5	66.8	73.3	77.9	81.1	87.6	92.8	94.7	98.0	97.3	99.9
87.5°	13.6	14.9	16.9	18.2	18.8	21.4	23.4	23.4	24.7	24.7	25.3
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°	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6
2.5°	251.8	252.4	251.8	251.8	251.8	252.4	251.8	252.4
5°	256.3	256.3	256.3	255.7	255.0	255.0	255.0	254.4
7.5°	258.9	258.9	258.3	257.6	257.0	257.6	257.6	257.6
10°	264.1	265.4	266.0	266.0	265.4	265.4	265.4	264.7
12.5°	273.2	273.8	275.8	276.4	277.1	276.4	274.5	273.8
15°	285.5	285.5	286.2	287.5	287.5	284.9	282.9	282.3
17.5°	303.0	302.4	301.1	301.1	301.7	300.4	298.5	298.5
20°	329.6	327.0	325.7	323.8	325.7	325.7	321.8	319.9
22.5°	348.5	345.9	342.6	340.7	343.3	345.2	340.7	338.1
25°	364.7	365.3	360.1	357.5	358.2	359.5	353.6	353.0
27.5°	381.5	382.8	380.2	375.7	374.4	377.0	372.5	371.2
30°	402.3	401.7	403.0	397.1	394.5	396.5	395.8	392.6
32.5°	429.6	426.3	427.6	422.4	417.2	417.2	413.3	409.4
35°	467.2	460.1	456.8	453.6	443.8	444.5	441.2	438.0
37.5°	516.5	505.5	496.4	498.3	484.1	482.8	480.8	476.3
40°	573.0	567.8	557.4	551.6	536.6	529.5	526.9	518.5
42.5°	615.1	616.4	600.9	590.5	578.8	566.5	565.2	556.7
45°	660.6	656.0	641.8	624.9	619.7	604.8	602.8	594.4
47.5°	706.0	690.4	682.0	664.5	656.0	637.2	638.5	630.7
50°	748.8	730.6	722.9	702.1	689.1	670.3	665.8	652.8
52.5°	794.2	777.4	765.0	738.4	719.6	705.3	697.6	692.4
55°	855.2	838.4	810.5	785.8	770.2	746.9	744.3	735.2
57.5°	883.8	871.5	841.0	823.4	795.5	771.5	763.7	745.6
60°	887.0	881.8	849.4	832.5	791.6	772.2	762.4	751.4
61°	886.4	879.9	848.7	828.0	789.0	769.6	761.8	752.1
62.5°	883.8	876.0	841.6	820.2	783.9	765.0	758.6	744.3
65°	875.4	853.9	824.1	804.6	765.0	748.2	732.6	718.3
67.5°	838.4	798.1	785.8	761.1	720.9	702.1	687.8	675.5
70°	759.2	732.6	719.6	689.1	656.7	641.1	624.9	609.3
72.5°	666.4	648.9	637.9	600.9	576.9	561.3	546.4	531.4
75°	562.6	549.6	529.5	501.6	480.2	464.6	451.0	443.8
77.5°	441.9	433.5	417.9	390.0	378.3	364.7	351.0	340.0
80°	318.0	311.5	299.1	279.0	269.3	255.7	245.9	236.8
82.5°	197.9	192.7	185.6	170.7	166.8	158.3	149.2	142.8
85°	94.7	91.5	88.9	79.2	78.5	71.4	68.1	64.2
87.5°	24.7	24.0	22.7	19.5	18.8	16.9	15.6	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)