

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: P197847

Luminaire Tested: **TT-C1-LED-E1-WQ-CG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197847
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3284 lumens
Efficiency: N/A
Efficacy: 117.3 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

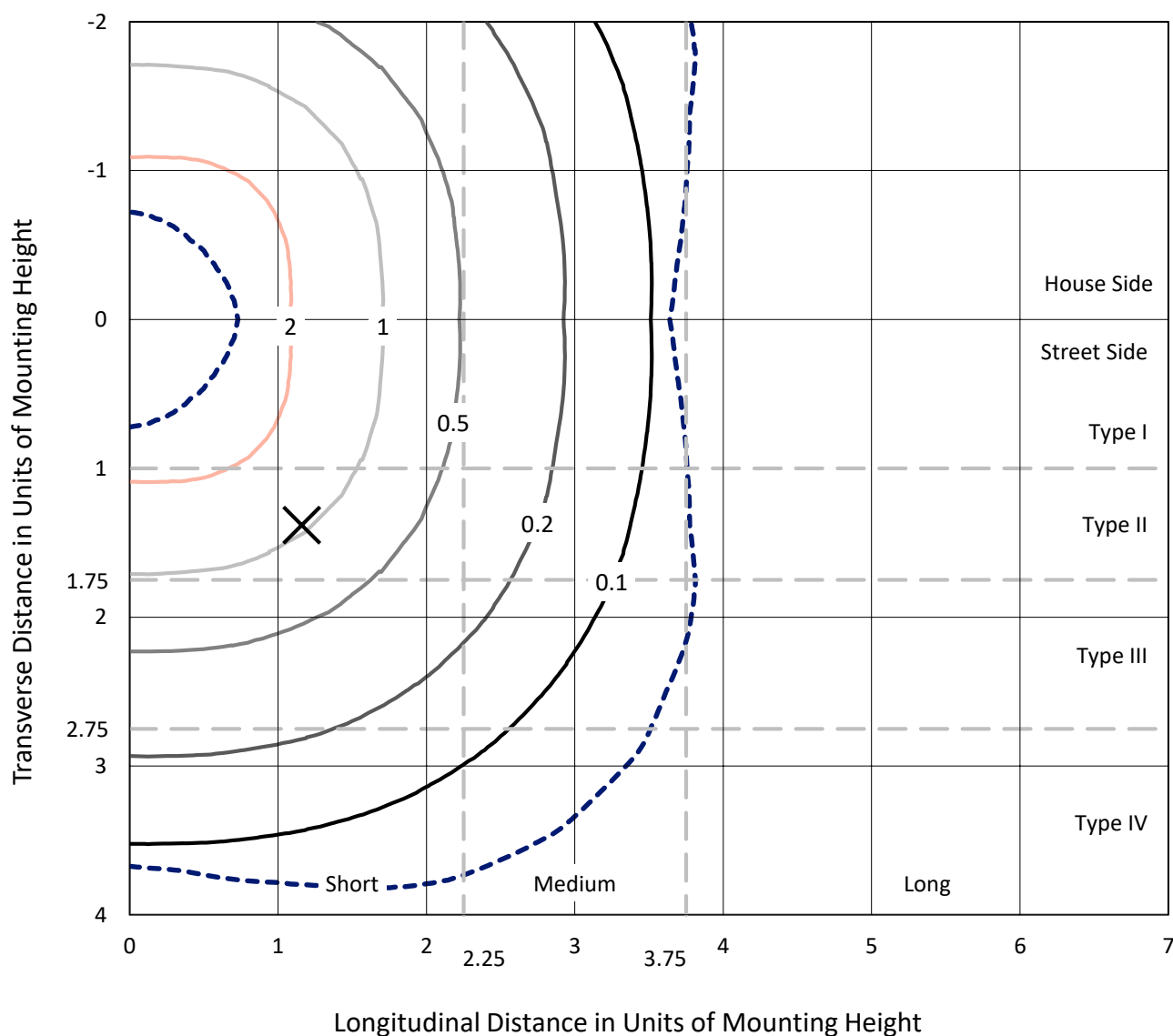


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

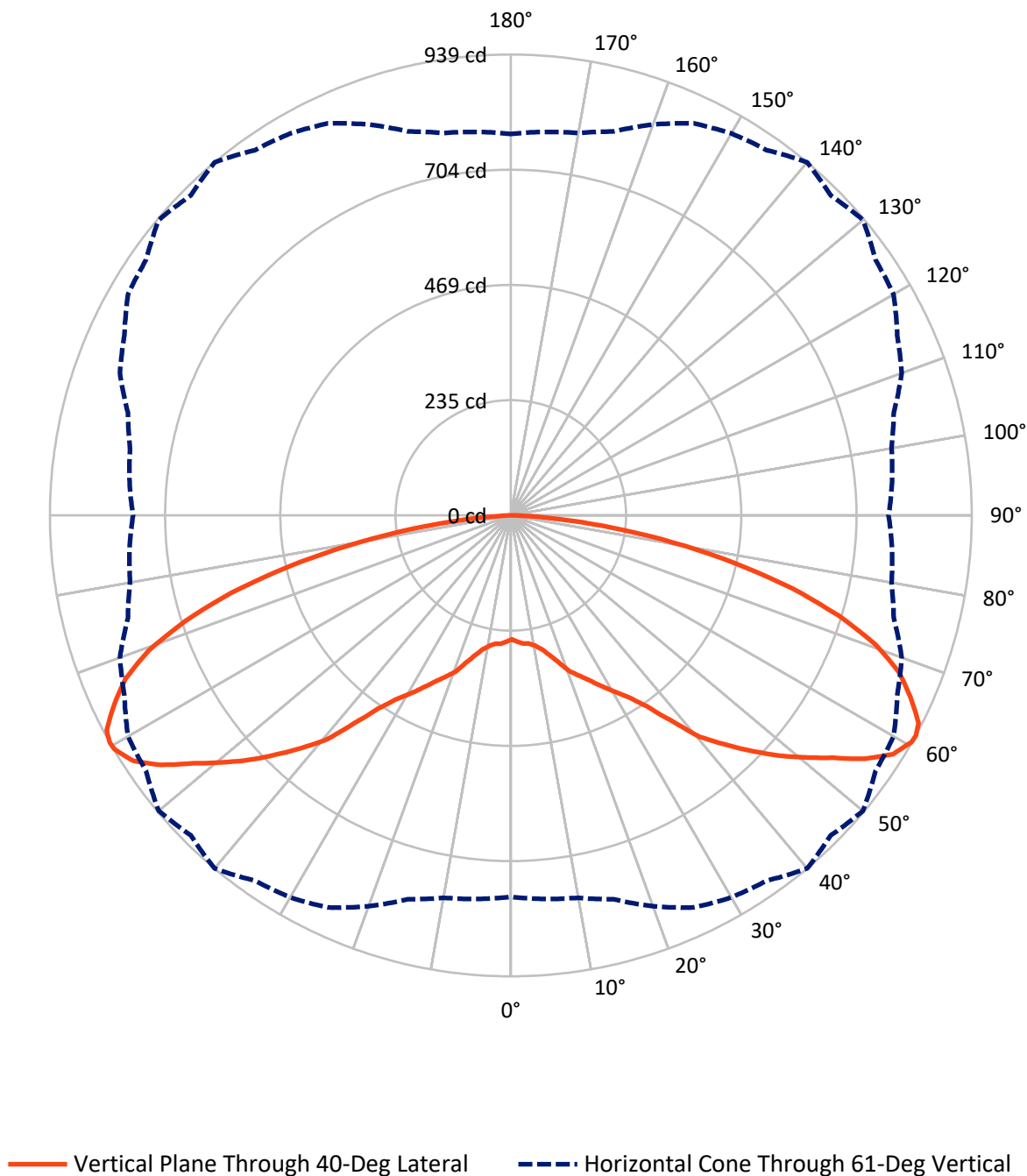


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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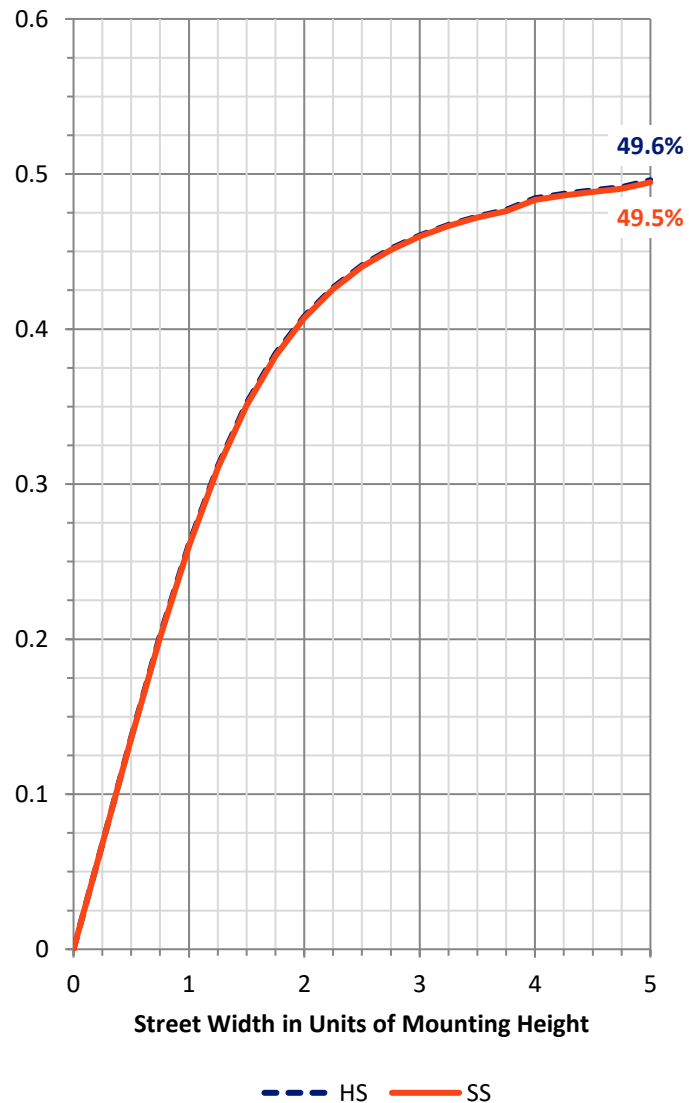
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1642.0	0.0	1642.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1642.0	0.0	1642.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3284.0	0.0	3284.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.1	0.8
10°-20°	84.9	2.6
20°-30°	172.2	5.2
30°-40°	299.5	9.1
40°-50°	504.1	15.4
50°-60°	726.3	22.1
60°-70°	805.9	24.5
70°-80°	547.3	16.7
80°-90°	118.5	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°	3284.0	100.0
0°-180°	3284.0	100.0

Coefficient of Utilization



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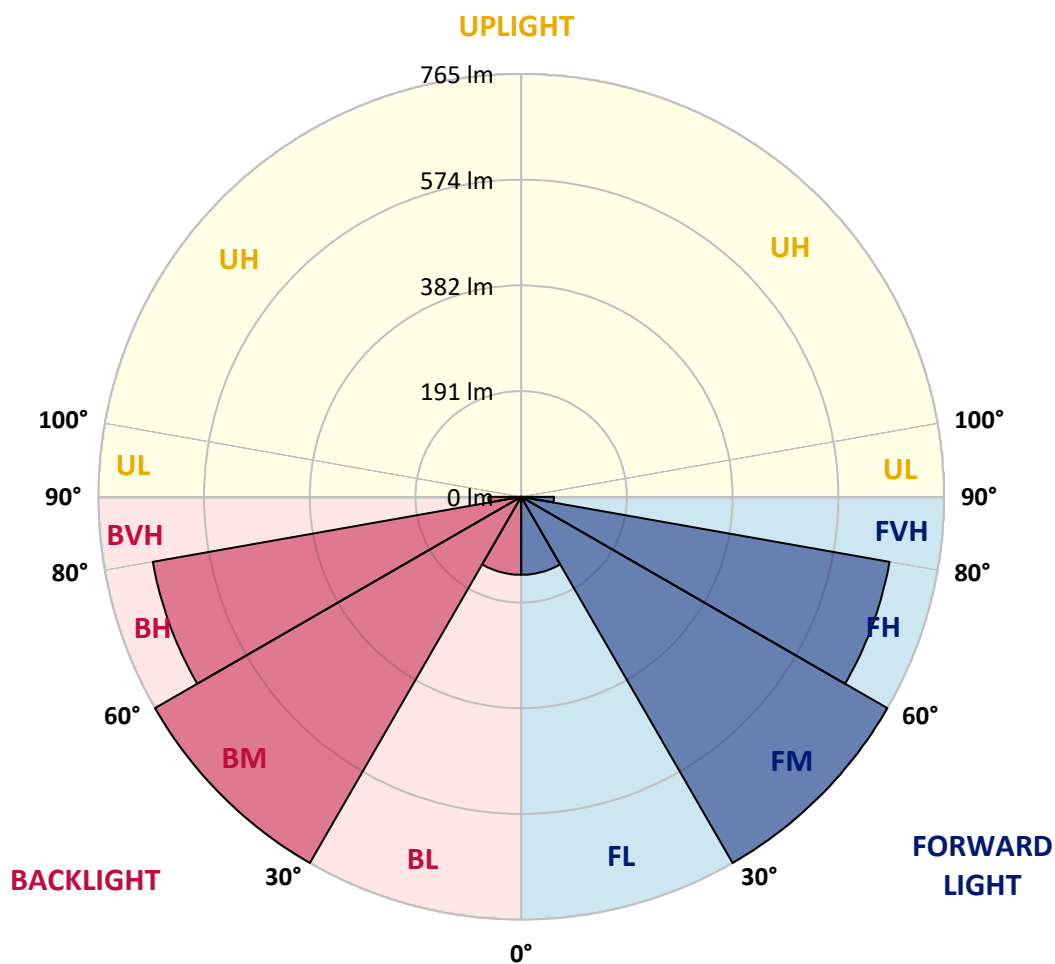
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	141.1	4.3			
FM	(30°-60°)	765.0	23.3			
FH	(60°-80°)	676.6	20.6			G1/1800
FVH	(80°-90°)	59.3	1.8			G1/100
BL	(0°-30°)	141.1	4.3	B1/500		
BM	(30°-60°)	765.0	23.3	B1/1000		
BH	(60°-80°)	676.6	20.6	B2/1000		G1/1800
BVH	(80°-90°)	59.3	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°	252.3	252.3	252.3	252.3	252.3	252.3	252.3	252.3	252.3	252.3	252.3
2.5°	258.3	258.3	258.3	258.3	258.3	257.6	258.3	257.6	257.6	257.6	257.6
5°	260.3	260.9	260.9	260.9	260.9	261.6	261.6	262.3	262.3	262.3	262.3
7.5°	262.3	262.3	262.3	262.3	262.3	262.3	262.9	262.9	263.6	263.6	264.3
10°	270.2	270.2	270.9	270.9	270.2	270.2	270.2	269.6	269.6	268.9	268.9
12.5°	281.5	281.5	282.2	282.8	282.8	282.2	281.5	280.2	279.5	279.5	279.5
15°	290.1	290.8	292.1	293.5	294.1	294.1	294.8	294.8	294.8	294.1	293.5
17.5°	306.7	306.7	307.4	308.1	308.1	308.7	310.1	311.4	314.0	314.7	312.7
20°	330.6	331.3	333.3	332.6	332.6	334.0	335.3	336.0	337.9	339.3	339.3
22.5°	348.6	349.9	352.6	352.6	351.9	352.6	353.9	353.9	353.9	353.2	354.5
25°	362.5	363.8	365.8	365.8	367.2	370.5	374.5	373.8	371.8	371.8	371.1
27.5°	381.1	381.8	383.1	383.1	385.1	387.1	389.7	392.4	393.7	393.1	391.7
30°	404.3	405.7	407.0	405.0	408.3	410.3	411.6	411.6	417.0	419.6	415.0
32.5°	421.6	424.3	426.9	428.9	435.5	438.9	436.9	438.9	441.5	444.2	444.2
35°	450.2	452.8	454.8	456.1	462.8	467.4	472.7	478.0	477.4	475.4	479.4
37.5°	491.3	494.0	496.0	498.6	507.3	510.6	514.6	525.8	529.8	524.5	527.2
40°	535.1	539.8	546.4	554.4	567.0	571.0	577.6	585.6	592.9	595.6	588.9
42.5°	573.0	578.3	579.6	592.2	607.5	619.5	628.8	630.7	637.4	643.4	638.7
45°	613.5	618.1	621.5	632.1	640.7	657.3	672.6	679.9	683.2	682.5	687.8
47.5°	651.3	656.6	661.3	672.6	683.2	697.1	707.1	724.4	730.3	722.4	731.0
50°	674.6	681.2	687.2	708.4	727.0	741.6	749.6	764.2	774.8	769.5	771.5
52.5°	713.1	715.7	720.4	732.3	756.9	790.8	798.7	806.7	820.0	826.6	814.7
55°	762.2	769.5	776.2	791.4	804.0	829.3	865.8	875.7	875.1	895.7	877.1
57.5°	772.8	783.5	796.7	824.6	849.2	863.8	887.0	914.9	917.6	918.9	921.6
60°	774.2	780.8	789.4	812.7	855.8	882.4	895.7	913.6	937.5	920.2	938.2
61°	776.8	784.1	790.8	809.4	847.2	881.1	898.3	908.3	938.8	921.6	936.2
62.5°	772.2	780.8	790.8	808.7	833.9	868.4	901.6	901.6	932.2	920.9	928.9
65°	744.3	752.3	771.5	794.7	825.3	843.2	877.7	899.6	895.0	914.9	895.0
67.5°	697.1	703.8	720.4	747.6	780.8	806.0	822.0	857.2	852.5	873.1	850.5
70°	630.7	639.4	660.0	678.6	709.8	736.3	757.6	778.8	788.1	786.1	787.4
72.5°	551.1	557.1	575.6	596.2	620.8	650.7	669.9	683.2	697.8	697.1	699.8
75°	458.8	464.1	480.0	495.3	519.2	542.4	564.4	578.3	590.2	589.6	586.9
77.5°	353.9	359.9	377.8	391.1	402.4	428.2	444.8	454.1	464.1	464.1	465.4
80°	247.0	251.0	264.9	278.9	289.5	302.1	323.3	325.3	336.6	334.0	336.6
82.5°	148.7	151.4	162.0	170.0	177.3	189.2	199.2	203.2	209.8	207.2	211.1
85°	67.1	68.4	75.0	79.7	83.0	89.6	94.9	96.9	100.3	99.6	102.2
87.5°	13.9	15.3	17.3	18.6	19.3	21.9	23.9	23.9	25.2	25.2	25.9
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°	252.3	252.3	252.3	252.3	252.3	252.3	252.3	252.3
2.5°	257.6	258.3	257.6	257.6	257.6	258.3	257.6	258.3
5°	262.3	262.3	262.3	261.6	260.9	260.9	260.9	260.3
7.5°	264.9	264.9	264.3	263.6	262.9	263.6	263.6	263.6
10°	270.2	271.6	272.2	272.2	271.6	271.6	271.6	270.9
12.5°	279.5	280.2	282.2	282.8	283.5	282.8	280.8	280.2
15°	292.1	292.1	292.8	294.1	294.1	291.5	289.5	288.8
17.5°	310.1	309.4	308.1	308.1	308.7	307.4	305.4	305.4
20°	337.3	334.6	333.3	331.3	333.3	333.3	329.3	327.3
22.5°	356.5	353.9	350.6	348.6	351.2	353.2	348.6	345.9
25°	373.1	373.8	368.5	365.8	366.5	367.8	361.9	361.2
27.5°	390.4	391.7	389.1	384.4	383.1	385.8	381.1	379.8
30°	411.6	411.0	412.3	406.3	403.7	405.7	405.0	401.7
32.5°	439.5	436.2	437.5	432.2	426.9	426.9	422.9	419.0
35°	478.0	470.7	467.4	464.1	454.1	454.8	451.5	448.2
37.5°	528.5	517.2	507.9	509.9	495.3	494.0	492.0	487.3
40°	586.3	581.0	570.3	564.4	549.1	541.8	539.1	530.5
42.5°	629.4	630.7	614.8	604.2	592.2	579.6	578.3	569.7
45°	675.9	671.3	656.6	639.4	634.1	618.8	616.8	608.2
47.5°	722.4	706.4	697.8	679.9	671.3	652.0	653.3	645.4
50°	766.2	747.6	739.6	718.4	705.1	685.9	681.2	667.9
52.5°	812.7	795.4	782.8	755.6	736.3	721.7	713.7	708.4
55°	875.1	857.8	829.3	804.0	788.1	764.2	761.5	752.3
57.5°	904.3	891.7	860.5	842.5	814.0	789.4	781.5	762.9
60°	907.6	902.3	869.1	851.8	810.0	790.1	780.1	768.9
61°	907.0	900.3	868.4	847.2	807.4	787.4	779.5	769.5
62.5°	904.3	896.3	861.1	839.2	802.0	782.8	776.2	761.5
65°	895.7	873.8	843.2	823.3	782.8	765.5	749.6	735.0
67.5°	857.8	816.7	804.0	778.8	737.6	718.4	703.8	691.2
70°	776.8	749.6	736.3	705.1	671.9	656.0	639.4	623.4
72.5°	681.9	663.9	652.7	614.8	590.2	574.3	559.0	543.8
75°	575.6	562.4	541.8	513.2	491.3	475.4	461.4	454.1
77.5°	452.1	443.5	427.6	399.0	387.1	373.1	359.2	347.9
80°	325.3	318.7	306.1	285.5	275.5	261.6	251.6	242.3
82.5°	202.5	197.2	189.9	174.6	170.6	162.0	152.7	146.1
85°	96.9	93.6	91.0	81.0	80.3	73.0	69.7	65.7
87.5°	25.2	24.6	23.2	19.9	19.3	17.3	15.9	13.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)