

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: P197799

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115528)
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-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2999.6 lumens
Efficiency: N/A
Efficacy: 107.1 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): 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



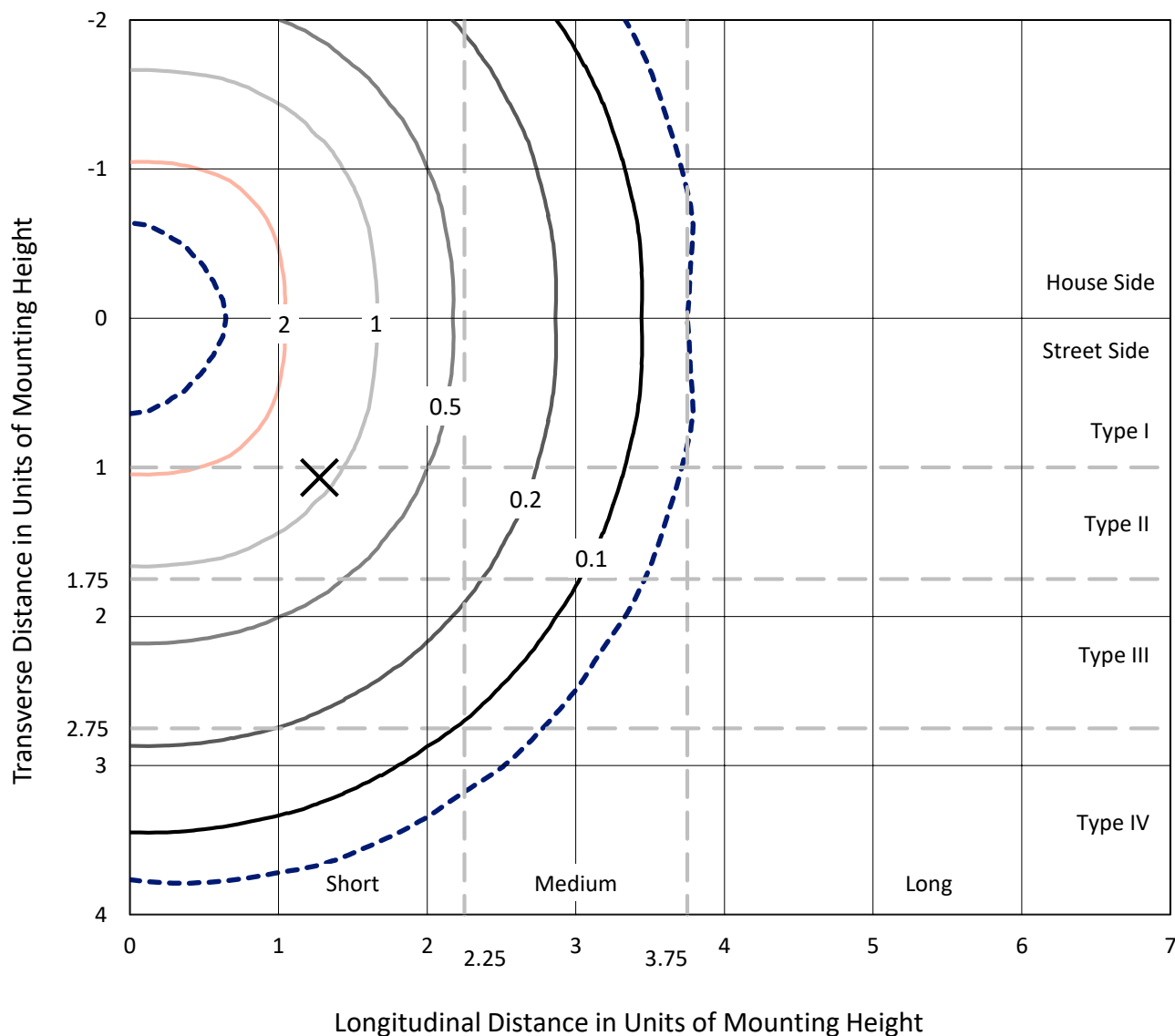
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

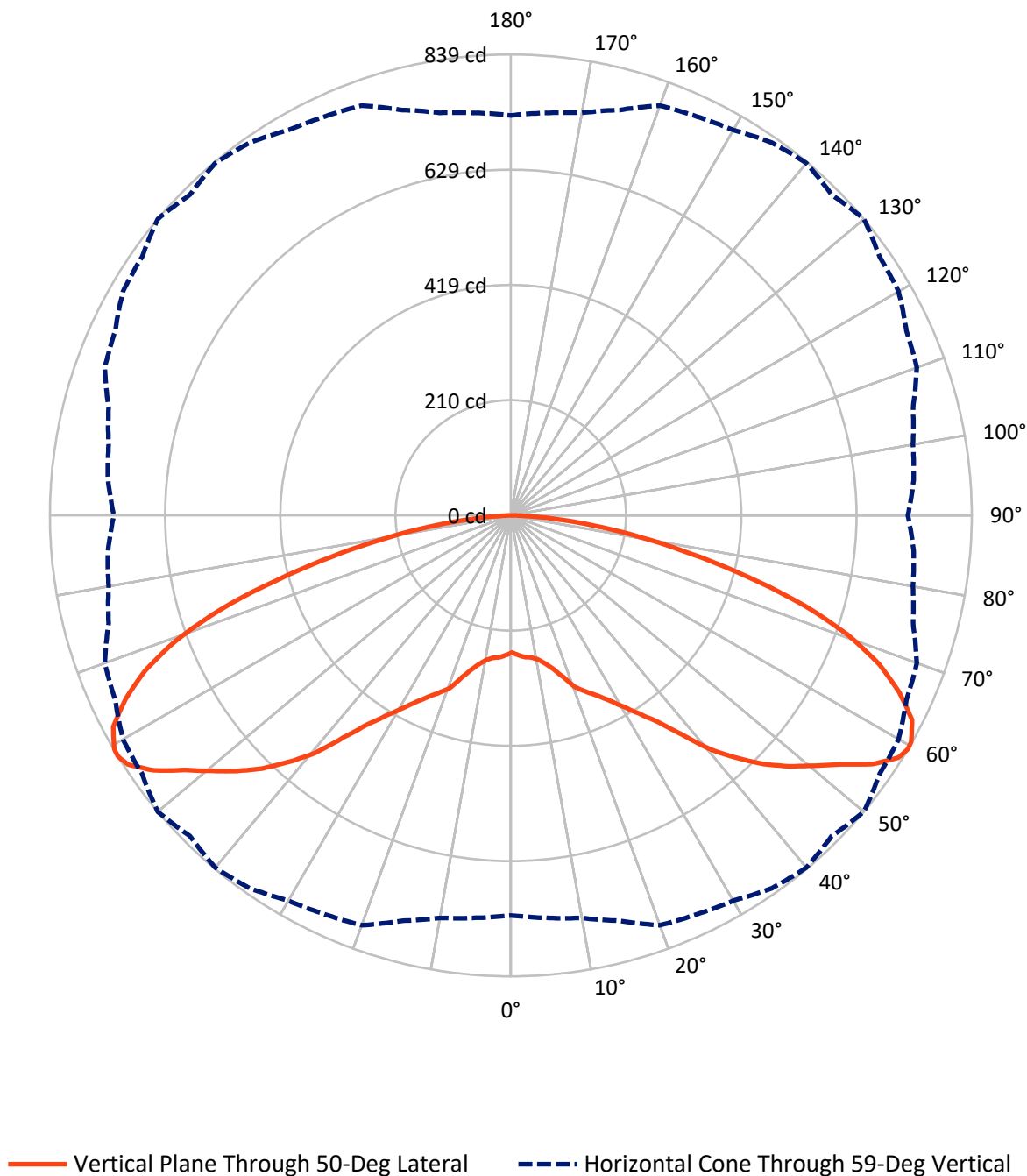


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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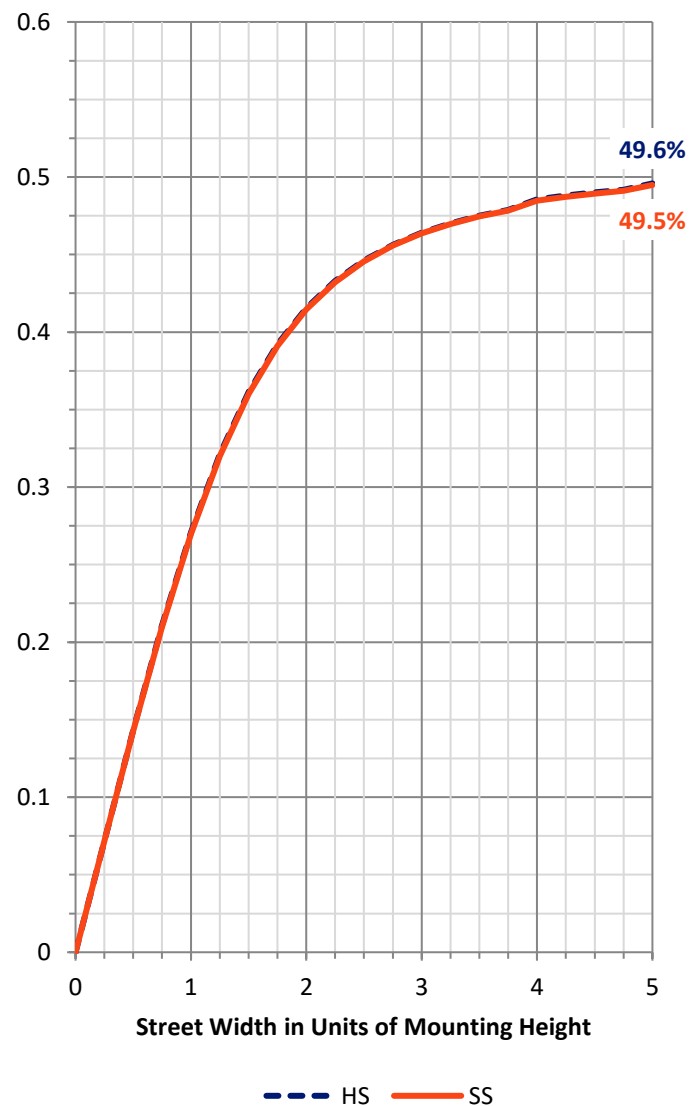
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1499.8	0.0	1499.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1499.8	0.0	1499.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	2999.6	0.0	2999.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.8	0.8
10°-20°	83.8	2.8
20°-30°	168.6	5.6
30°-40°	290.1	9.7
40°-50°	479.0	16.0
50°-60°	674.5	22.5
60°-70°	721.5	24.1
70°-80°	458.3	15.3
80°-90°	99.0	3.3
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°	2999.6	100.0
0°-180°	2999.6	100.0

Coefficient of Utilization



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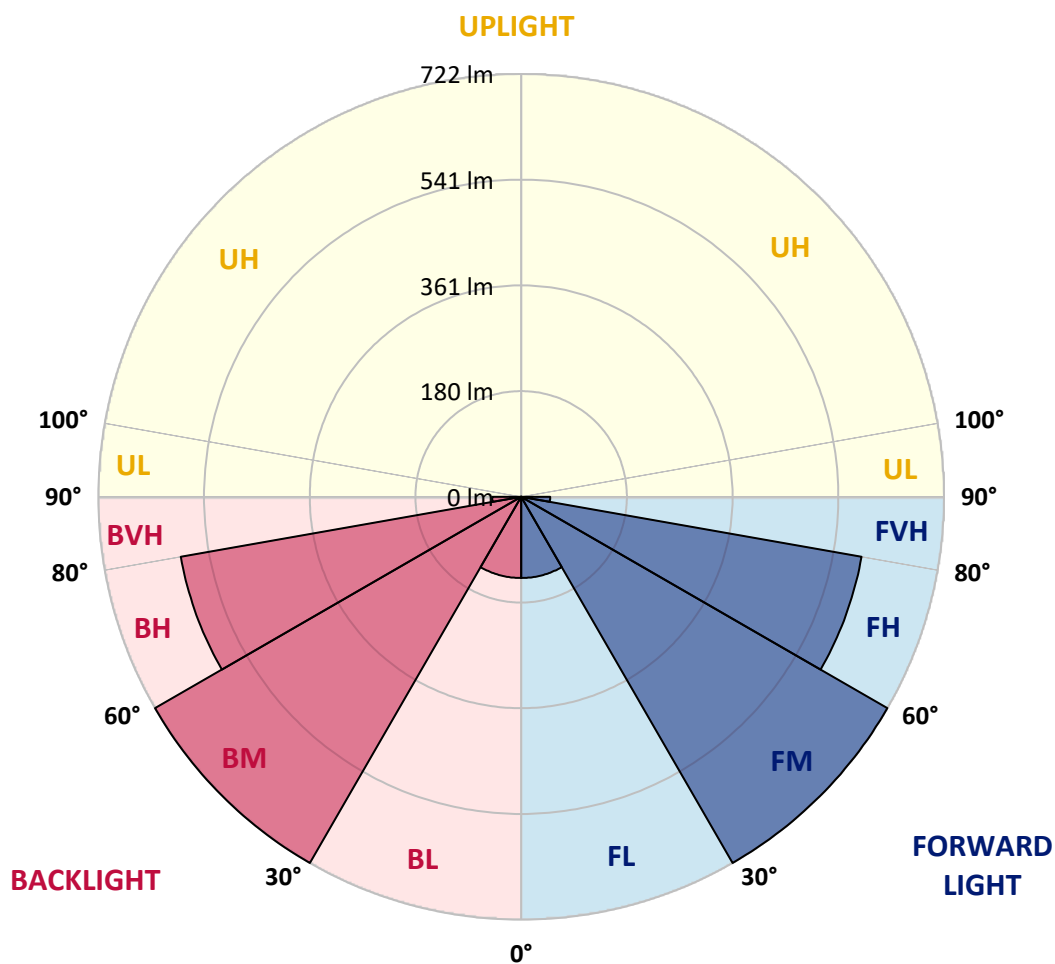
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	138.6	4.6			
FM	(30°-60°)	721.8	24.1			
FH	(60°-80°)	589.9	19.7			G0/660
FVH	(80°-90°)	49.5	1.7			G1/100
BL	(0°-30°)	138.6	4.6	B1/500		
BM	(30°-60°)	721.8	24.1	B1/1000		
BH	(60°-80°)	589.9	19.7	B2/1000		G0/660
BVH	(80°-90°)	49.5	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°	249.6	249.6	249.6	249.6	249.6	249.6	249.6	249.6	249.6	249.6	249.6
2.5°	255.0	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3
5°	256.3	256.3	256.9	256.9	257.6	257.6	257.6	258.3	258.3	258.3	258.9
7.5°	258.9	258.3	258.9	258.9	258.9	259.6	259.6	259.6	260.3	260.9	260.9
10°	267.6	266.9	267.6	267.6	267.6	266.2	266.2	266.9	266.2	266.2	266.2
12.5°	277.5	277.5	278.2	278.9	278.9	278.2	277.5	276.9	276.2	276.2	276.2
15°	286.8	287.5	288.2	289.5	290.1	290.1	290.8	291.5	290.8	290.8	290.1
17.5°	301.4	302.8	303.4	304.1	304.1	304.1	305.4	307.4	309.4	310.7	309.4
20°	326.0	326.7	328.0	328.0	327.3	328.0	329.3	330.0	331.3	332.6	333.3
22.5°	342.6	343.9	345.9	345.9	345.3	345.9	347.2	347.2	345.9	346.6	347.9
25°	356.5	357.2	358.5	359.2	359.9	363.2	365.8	365.2	362.5	363.2	362.5
27.5°	373.1	374.5	375.8	375.8	375.8	377.8	380.4	381.8	383.8	383.1	381.1
30°	395.0	397.0	397.7	397.0	398.4	400.4	399.7	401.0	404.3	407.7	403.7
32.5°	412.3	414.3	416.3	419.0	423.6	426.3	424.9	425.6	427.6	430.2	430.2
35°	438.2	441.5	442.9	443.5	448.2	453.5	457.5	460.8	460.1	458.1	461.4
37.5°	477.4	480.7	482.0	484.7	490.7	492.0	498.0	505.9	508.6	505.9	505.9
40°	519.2	522.5	529.2	535.1	544.4	546.4	553.7	557.1	563.7	564.4	560.4
42.5°	553.7	557.7	559.0	569.0	581.6	590.9	598.9	599.5	604.2	608.2	603.5
45°	590.9	594.2	596.2	605.5	612.2	623.4	636.1	641.4	643.4	642.7	645.4
47.5°	625.4	630.1	632.1	639.4	647.3	656.6	663.9	679.2	682.5	675.9	681.9
50°	646.7	652.0	656.6	672.6	686.5	693.8	699.8	712.4	719.7	713.7	715.7
52.5°	679.9	681.2	685.2	691.8	712.4	737.0	743.6	747.6	758.2	761.5	752.3
55°	725.0	729.7	733.0	741.6	750.3	767.5	796.7	802.0	799.4	815.3	798.7
57.5°	731.7	740.3	750.3	769.5	786.8	792.1	809.4	829.9	827.9	829.9	831.3
59°	727.7	735.0	743.6	763.5	793.4	800.7	809.4	827.9	836.6	825.3	838.6
60°	729.0	734.3	739.0	754.9	786.8	803.4	808.7	820.0	836.6	821.3	837.2
62.5°	723.7	730.3	735.7	744.9	760.2	783.5	804.0	798.7	822.6	810.7	819.3
65°	695.2	702.5	713.1	726.4	744.3	750.9	771.5	782.8	777.5	790.8	776.8
67.5°	647.3	654.0	660.6	676.6	696.5	705.1	710.4	731.0	723.7	739.0	723.0
70°	583.6	590.9	600.2	608.8	626.8	634.1	640.0	649.3	652.0	652.0	650.7
72.5°	507.3	513.2	519.2	527.8	538.5	545.1	547.8	549.7	560.4	556.4	557.1
75°	420.9	426.9	429.6	432.9	440.2	439.5	442.2	440.9	447.5	444.8	443.5
77.5°	329.3	331.3	338.6	338.6	336.6	339.9	336.6	334.6	333.3	334.6	334.6
80°	228.4	234.4	239.0	242.3	243.7	242.3	243.0	240.3	240.3	238.4	239.0
82.5°	140.8	146.7	148.7	152.0	152.7	152.7	152.7	150.7	151.4	149.4	150.7
85°	69.1	69.1	71.7	75.0	75.7	77.0	77.0	77.0	77.0	77.0	77.7
87.5°	17.3	17.3	18.6	20.6	20.6	21.2	21.9	22.6	22.6	23.2	23.2
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°	249.6	249.6	249.6	249.6	249.6	249.6	249.6	249.6
2.5°	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3
5°	258.9	258.3	258.3	257.6	257.6	256.9	256.9	256.9
7.5°	261.6	261.6	260.9	260.3	259.6	259.6	260.3	260.3
10°	266.9	268.2	268.9	268.9	268.2	268.2	267.6	267.6
12.5°	275.5	276.9	278.2	279.5	279.5	278.9	277.5	276.9
15°	288.8	288.8	289.5	290.1	290.1	288.8	286.2	286.2
17.5°	306.7	305.4	303.4	304.1	304.8	304.1	301.4	302.8
20°	331.3	328.7	327.3	326.0	328.7	328.7	324.7	324.7
22.5°	349.2	347.2	343.9	343.3	345.3	346.6	343.3	341.3
25°	364.5	365.2	361.2	359.2	359.9	360.5	355.9	356.5
27.5°	381.1	381.8	379.8	376.5	375.1	377.1	373.8	372.5
30°	401.0	400.4	401.7	397.7	394.4	396.4	396.4	393.1
32.5°	426.9	424.9	425.6	420.9	417.0	416.3	413.6	409.7
35°	462.1	456.8	452.8	450.2	442.9	441.5	441.5	436.9
37.5°	507.9	500.0	492.6	492.6	481.4	478.0	480.0	474.1
40°	559.0	556.4	545.1	543.1	531.2	523.2	523.2	515.9
42.5°	596.2	599.5	586.3	578.3	570.3	557.7	559.0	549.7
45°	636.7	634.7	623.4	609.5	606.8	593.6	594.9	585.6
47.5°	675.2	663.3	658.0	644.0	638.1	622.8	627.4	620.1
50°	712.4	699.1	693.8	677.2	669.3	652.7	653.3	640.0
52.5°	750.9	739.0	731.0	709.8	695.8	683.9	681.2	675.2
55°	800.7	788.1	768.9	748.9	738.3	721.0	723.0	713.7
57.5°	820.0	812.0	791.4	779.5	759.6	742.3	738.3	721.7
59°	819.3	814.7	794.1	786.1	757.6	743.0	735.7	722.4
60°	814.7	813.3	792.8	782.8	752.9	739.6	733.0	724.4
62.5°	800.7	800.1	776.8	764.9	740.3	729.7	725.7	714.4
65°	780.1	768.9	750.9	743.0	717.7	709.8	698.5	687.2
67.5°	731.0	705.8	703.1	693.2	671.3	661.3	654.0	643.4
70°	650.0	633.4	633.4	620.8	605.5	600.9	590.9	579.0
72.5°	549.1	545.1	547.1	532.5	525.2	522.5	513.9	503.3
75°	438.9	439.5	437.5	434.2	432.2	432.9	423.6	419.0
77.5°	332.6	338.6	337.3	332.6	337.3	336.6	328.7	326.7
80°	237.0	239.7	241.0	238.4	241.0	239.0	232.4	231.7
82.5°	149.4	150.1	151.4	148.7	149.4	148.7	144.1	144.1
85°	76.4	79.0	75.7	73.0	73.0	70.4	69.1	69.7
87.5°	22.6	23.9	21.2	21.2	19.9	18.6	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)