

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: P197804

Luminaire Tested: **TT-C2-LED-E1-WQ-CG-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197804
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-C2-LED-E1-WQ-CG-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3557.9 lumens
Efficiency: N/A
Efficacy: 104.6 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

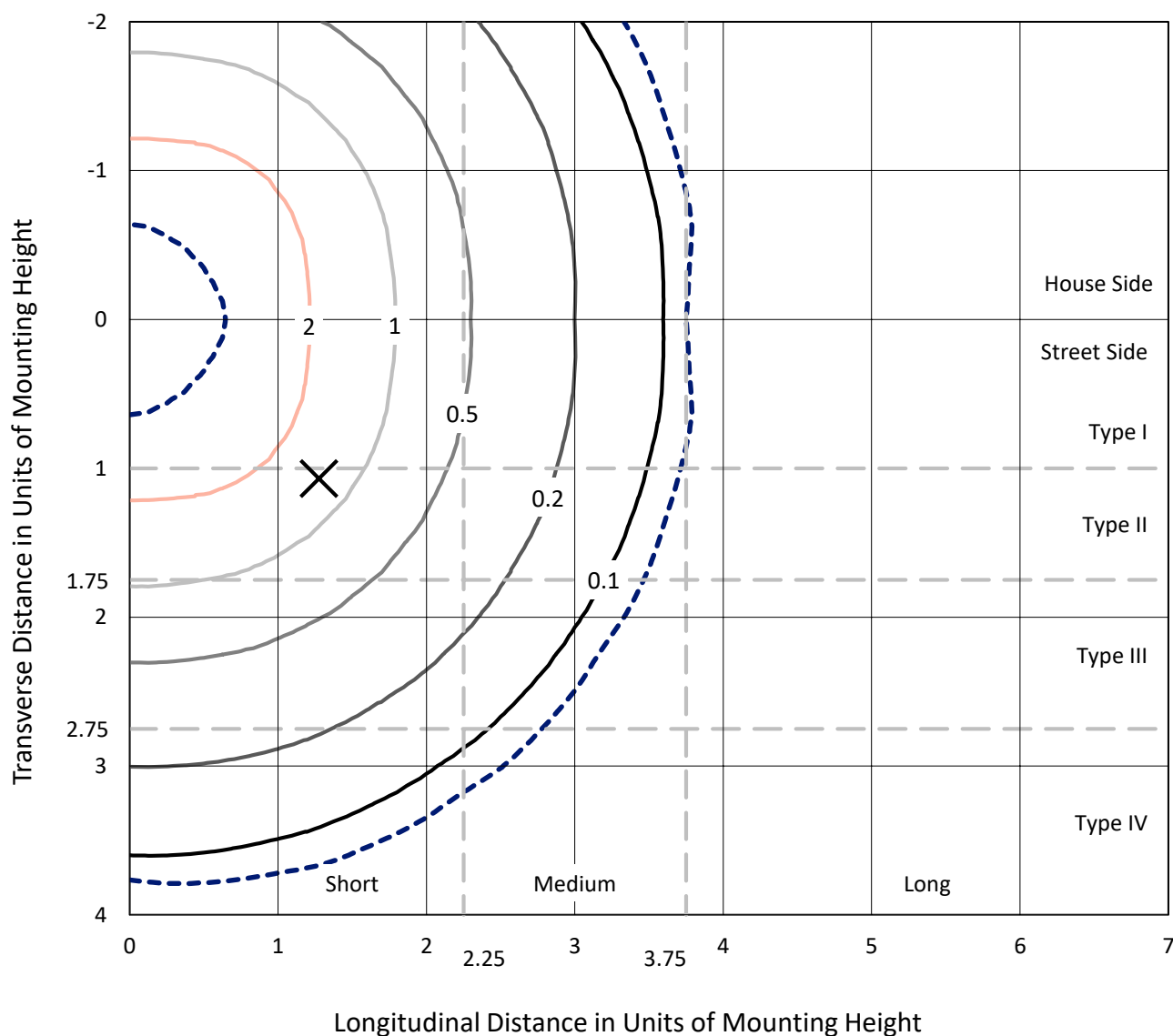


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

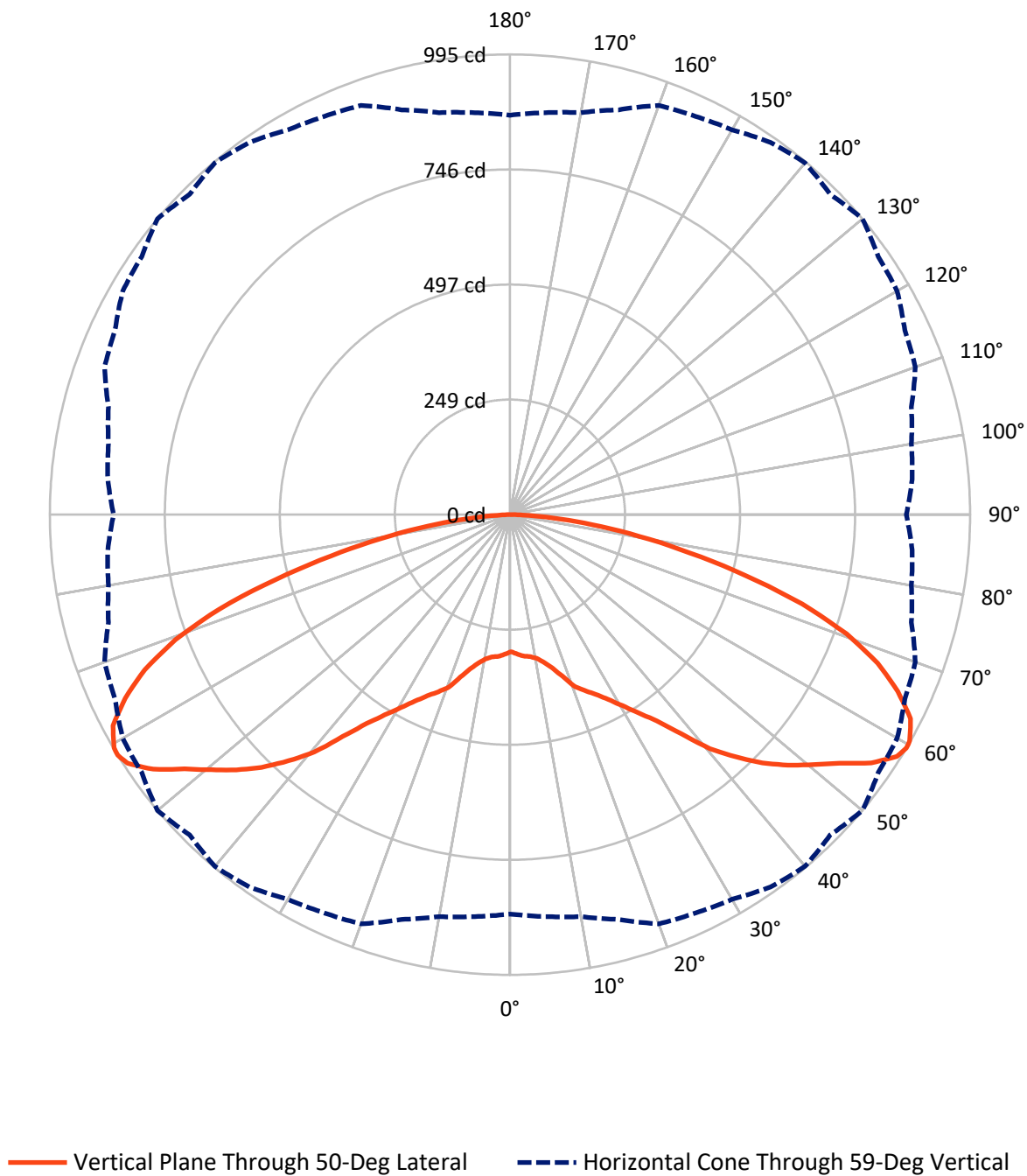


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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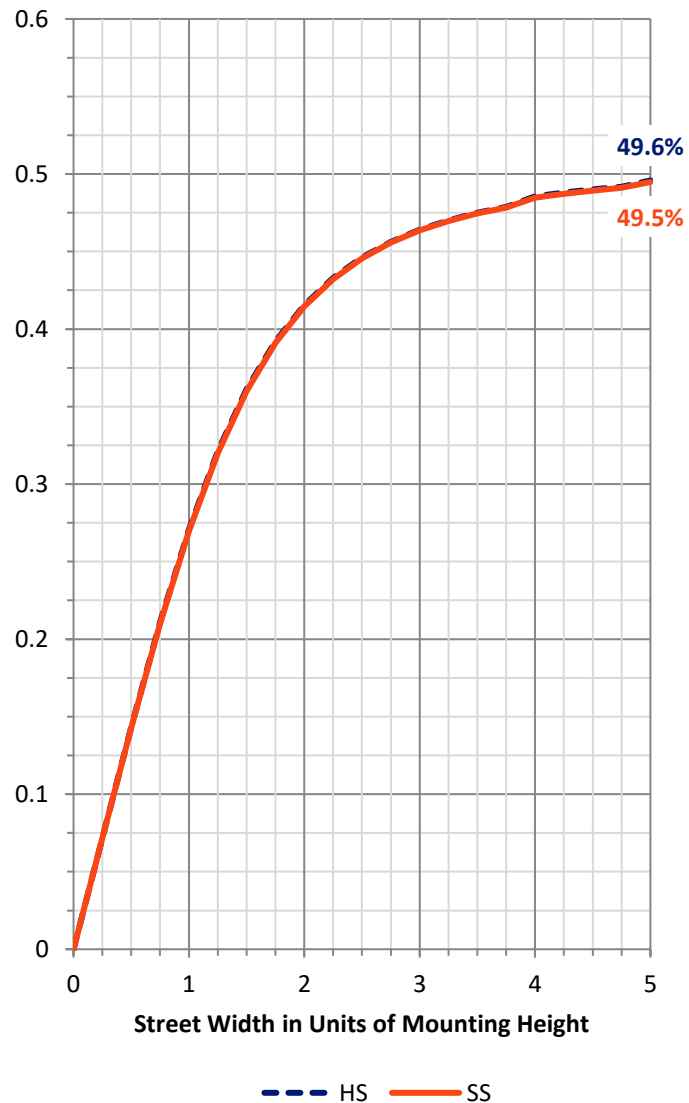
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1778.9	0.0	1778.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1778.9	0.0	1778.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	3557.9	0.0	3557.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.4	0.8
10°-20°	99.4	2.8
20°-30°	200.0	5.6
30°-40°	344.1	9.7
40°-50°	568.1	16.0
50°-60°	800.0	22.5
60°-70°	855.8	24.1
70°-80°	543.6	15.3
80°-90°	117.5	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°	3557.9	100.0
0°-180°	3557.9	100.0

Coefficient of Utilization



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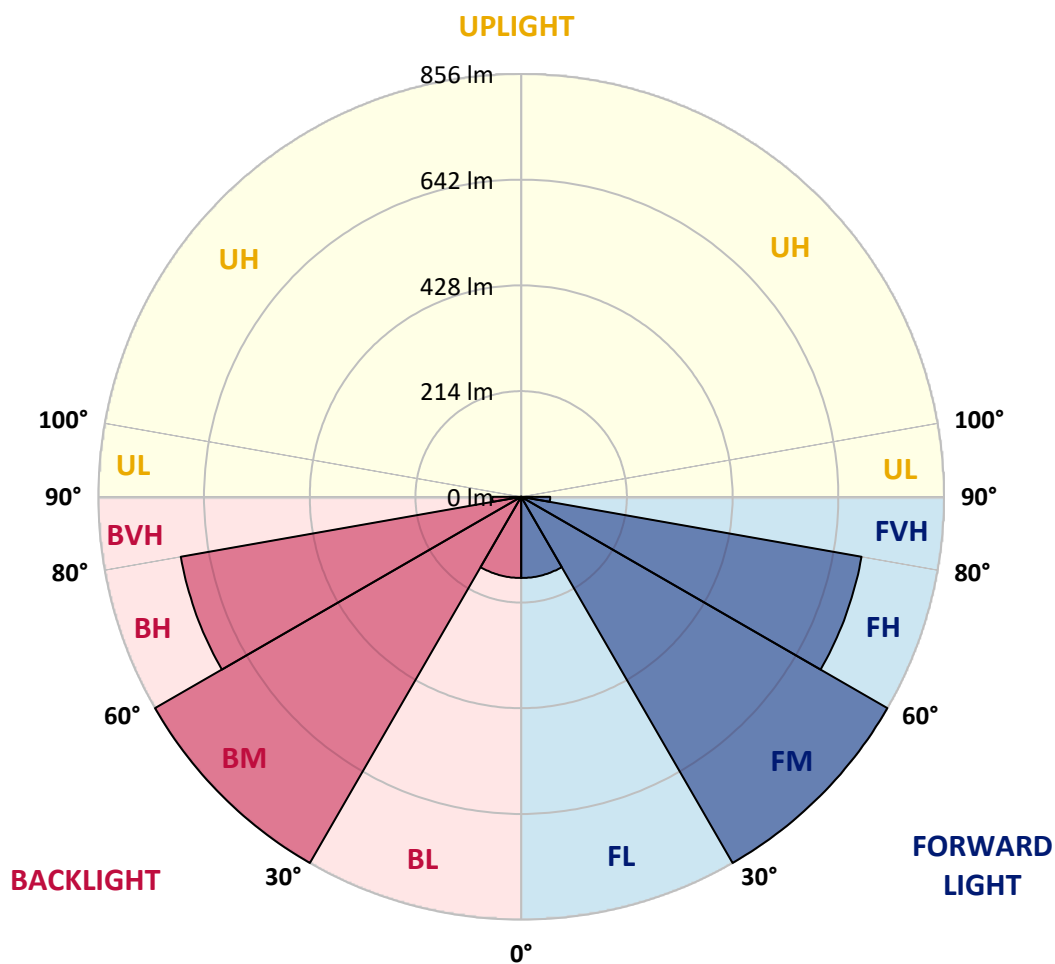
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	164.4	4.6			
FM	(30°-60°)	856.1	24.1			
FH	(60°-80°)	699.7	19.7			G1/1800
FVH	(80°-90°)	58.7	1.7			G1/100
BL	(0°-30°)	164.4	4.6	B1/500		
BM	(30°-60°)	856.1	24.1	B1/1000		
BH	(60°-80°)	699.7	19.7	B2/1000		G1/1800
BVH	(80°-90°)	58.7	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°	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1
2.5°	302.4	301.6	301.6	301.6	301.6	301.6	301.6	301.6	301.6	301.6	301.6
5°	304.0	304.0	304.8	304.8	305.6	305.6	305.6	306.3	306.3	306.3	307.1
7.5°	307.1	306.3	307.1	307.1	307.1	307.9	307.9	307.9	308.7	309.5	309.5
10°	317.4	316.6	317.4	317.4	317.4	315.8	315.8	316.6	315.8	315.8	315.8
12.5°	329.2	329.2	330.0	330.8	330.8	330.0	329.2	328.4	327.6	327.6	327.6
15°	340.2	341.0	341.8	343.4	344.1	344.1	344.9	345.7	344.9	344.9	344.1
17.5°	357.5	359.1	359.9	360.7	360.7	360.7	362.3	364.6	367.0	368.6	367.0
20°	386.7	387.5	389.0	389.0	388.2	389.0	390.6	391.4	393.0	394.5	395.3
22.5°	406.4	407.9	410.3	410.3	409.5	410.3	411.9	411.9	410.3	411.1	412.7
25°	422.9	423.7	425.3	426.0	426.8	430.8	433.9	433.1	430.0	430.8	430.0
27.5°	442.6	444.2	445.7	445.7	445.7	448.1	451.2	452.8	455.2	454.4	452.0
30°	468.6	470.9	471.7	470.9	472.5	474.9	474.1	475.7	479.6	483.5	478.8
32.5°	489.0	491.4	493.8	496.9	502.4	505.6	504.0	504.8	507.2	510.3	510.3
35°	519.8	523.7	525.3	526.1	531.6	537.9	542.6	546.5	545.7	543.4	547.3
37.5°	566.2	570.2	571.7	574.9	582.0	583.5	590.6	600.1	603.2	600.1	600.1
40°	615.8	619.8	627.6	634.7	645.8	648.1	656.8	660.7	668.6	669.4	664.7
42.5°	656.8	661.5	663.1	674.9	689.9	700.9	710.3	711.1	716.6	721.4	715.8
45°	700.9	704.8	707.2	718.2	726.1	739.5	754.4	760.7	763.1	762.3	765.5
47.5°	741.8	747.3	749.7	758.4	767.8	778.8	787.5	805.6	809.6	801.7	808.8
50°	767.0	773.3	778.8	797.7	814.3	822.9	830.0	845.0	853.7	846.6	848.9
52.5°	806.4	808.0	812.7	820.6	845.0	874.1	882.0	886.7	899.3	903.3	892.2
55°	860.0	865.5	869.4	879.6	889.9	910.4	945.0	951.3	948.2	967.1	947.4
57.5°	867.8	878.1	889.9	912.7	933.2	939.5	960.0	984.4	982.0	984.4	986.0
59°	863.1	871.8	882.0	905.6	941.1	949.7	960.0	982.0	992.3	978.9	994.6
60°	864.7	871.0	876.5	895.4	933.2	952.9	959.2	972.6	992.3	974.1	993.0
62.5°	858.4	866.3	872.6	883.6	901.7	929.3	953.7	947.4	975.7	961.5	971.8
65°	824.5	833.2	845.8	861.5	882.8	890.7	915.1	928.5	922.2	937.9	921.4
67.5°	767.8	775.7	783.6	802.5	826.1	836.3	842.6	867.0	858.4	876.5	857.6
70°	692.2	700.9	711.9	722.1	743.4	752.1	759.2	770.2	773.3	773.3	771.8
72.5°	601.7	608.7	615.8	626.1	638.7	646.5	649.7	652.1	664.7	659.9	660.7
75°	499.3	506.4	509.5	513.5	522.1	521.3	524.5	522.9	530.8	527.6	526.1
77.5°	390.6	393.0	401.6	401.6	399.3	403.2	399.3	396.9	395.3	396.9	396.9
80°	270.9	278.0	283.5	287.4	289.0	287.4	288.2	285.1	285.1	282.7	283.5
82.5°	167.0	174.0	176.4	180.3	181.1	181.1	181.1	178.8	179.6	177.2	178.8
85°	81.9	81.9	85.1	89.0	89.8	91.4	91.4	91.4	91.4	91.4	92.1
87.5°	20.5	20.5	22.1	24.4	24.4	25.2	26.0	26.8	26.8	27.6	27.6
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°	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1
2.5°	301.6	301.6	301.6	301.6	301.6	301.6	301.6	301.6
5°	307.1	306.3	306.3	305.6	305.6	304.8	304.8	304.8
7.5°	310.3	310.3	309.5	308.7	307.9	307.9	308.7	308.7
10°	316.6	318.2	318.9	318.9	318.2	318.2	317.4	317.4
12.5°	326.8	328.4	330.0	331.5	331.5	330.8	329.2	328.4
15°	342.6	342.6	343.4	344.1	344.1	342.6	339.4	339.4
17.5°	363.8	362.3	359.9	360.7	361.5	360.7	357.5	359.1
20°	393.0	389.8	388.2	386.7	389.8	389.8	385.1	385.1
22.5°	414.2	411.9	407.9	407.1	409.5	411.1	407.1	404.8
25°	432.3	433.1	428.4	426.0	426.8	427.6	422.1	422.9
27.5°	452.0	452.8	450.5	446.5	444.9	447.3	443.4	441.8
30°	475.7	474.9	476.4	471.7	467.8	470.1	470.1	466.2
32.5°	506.4	504.0	504.8	499.3	494.6	493.8	490.6	485.9
35°	548.1	541.8	537.1	533.9	525.3	523.7	523.7	518.2
37.5°	602.4	593.0	584.3	584.3	570.9	567.0	569.4	562.3
40°	663.1	659.9	646.5	644.2	630.0	620.6	620.6	611.9
42.5°	707.2	711.1	695.4	685.9	676.5	661.5	663.1	652.1
45°	755.2	752.9	739.5	722.9	719.8	704.0	705.6	694.6
47.5°	800.9	786.7	780.4	763.9	756.8	738.7	744.2	735.5
50°	845.0	829.2	822.9	803.3	793.8	774.1	774.9	759.2
52.5°	890.7	876.5	867.0	841.8	825.3	811.1	808.0	800.9
55°	949.7	934.8	911.9	888.3	875.7	855.2	857.6	846.6
57.5°	972.6	963.1	938.7	924.5	900.9	880.4	875.7	856.0
59°	971.8	966.3	941.9	932.4	898.5	881.2	872.6	856.8
60°	966.3	964.7	940.3	928.5	893.0	877.3	869.4	859.2
62.5°	949.7	948.9	921.4	907.2	878.1	865.5	860.7	847.4
65°	925.3	911.9	890.7	881.2	851.3	841.8	828.5	815.1
67.5°	867.0	837.1	834.0	822.2	796.2	784.4	775.7	763.1
70°	771.0	751.3	751.3	736.3	718.2	712.7	700.9	686.7
72.5°	651.3	646.5	648.9	631.6	622.9	619.8	609.5	596.9
75°	520.5	521.3	519.0	515.0	512.7	513.5	502.4	496.9
77.5°	394.5	401.6	400.1	394.5	400.1	399.3	389.8	387.5
80°	281.1	284.3	285.9	282.7	285.9	283.5	275.6	274.8
82.5°	177.2	178.0	179.6	176.4	177.2	176.4	170.9	170.9
85°	90.6	93.7	89.8	86.6	86.6	83.5	81.9	82.7
87.5°	26.8	28.4	25.2	25.2	23.6	22.1	21.3	21.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)