

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: P197731

Luminaire Tested: **TT-C2-LED-E1-WQ-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115483)
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-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3805.1 lumens
Efficiency: N/A
Efficacy: 111.9 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): 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

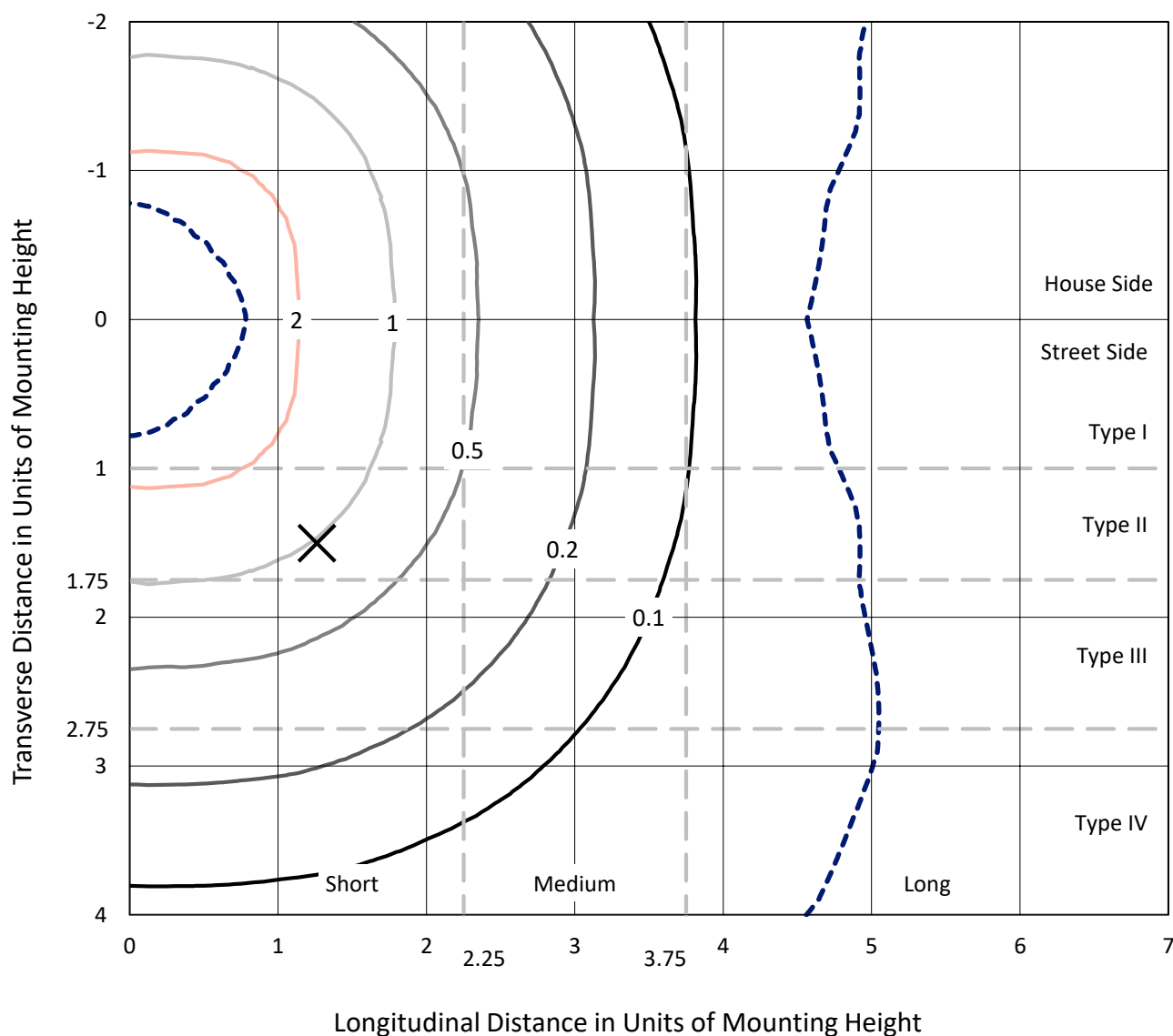


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

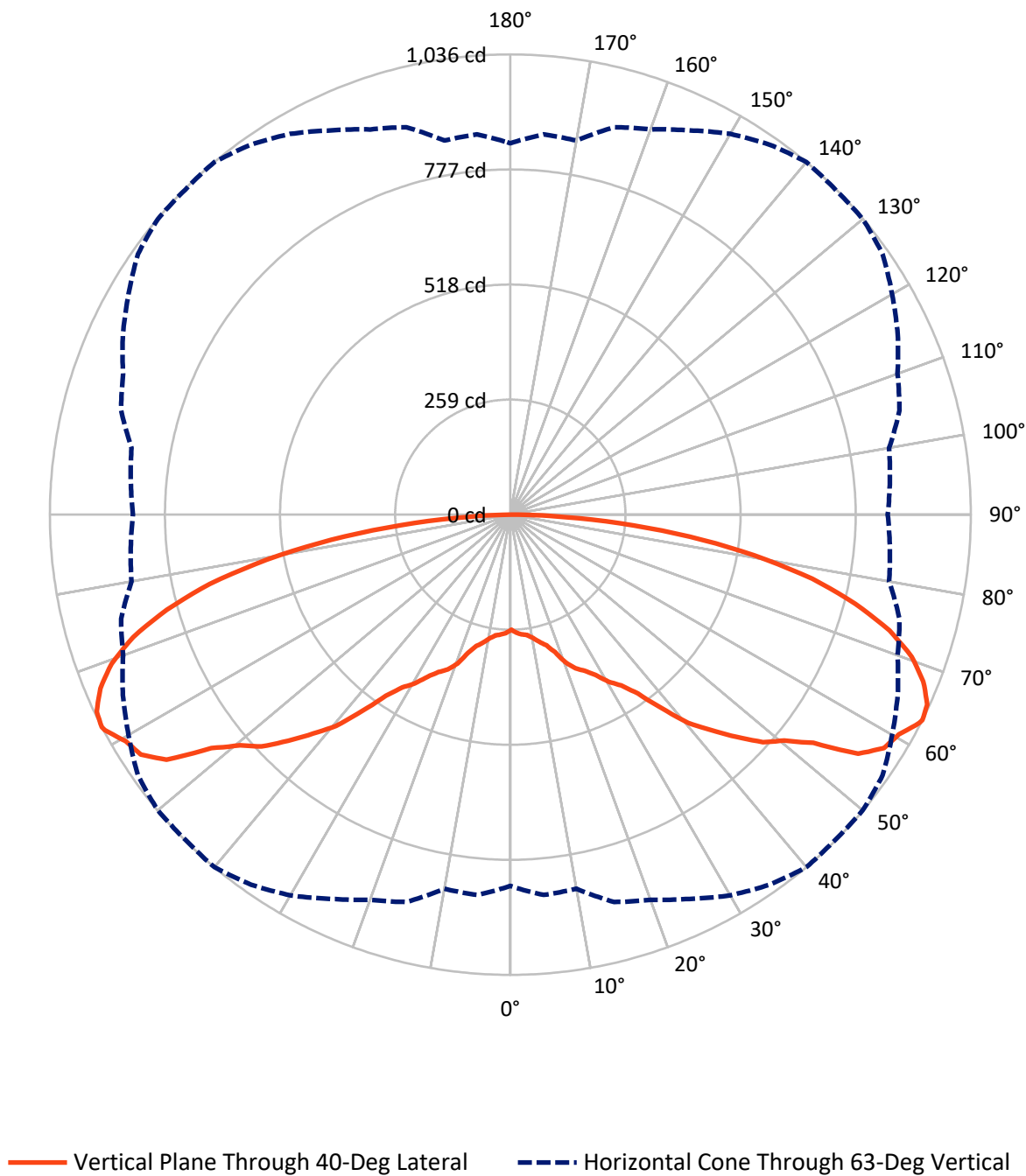


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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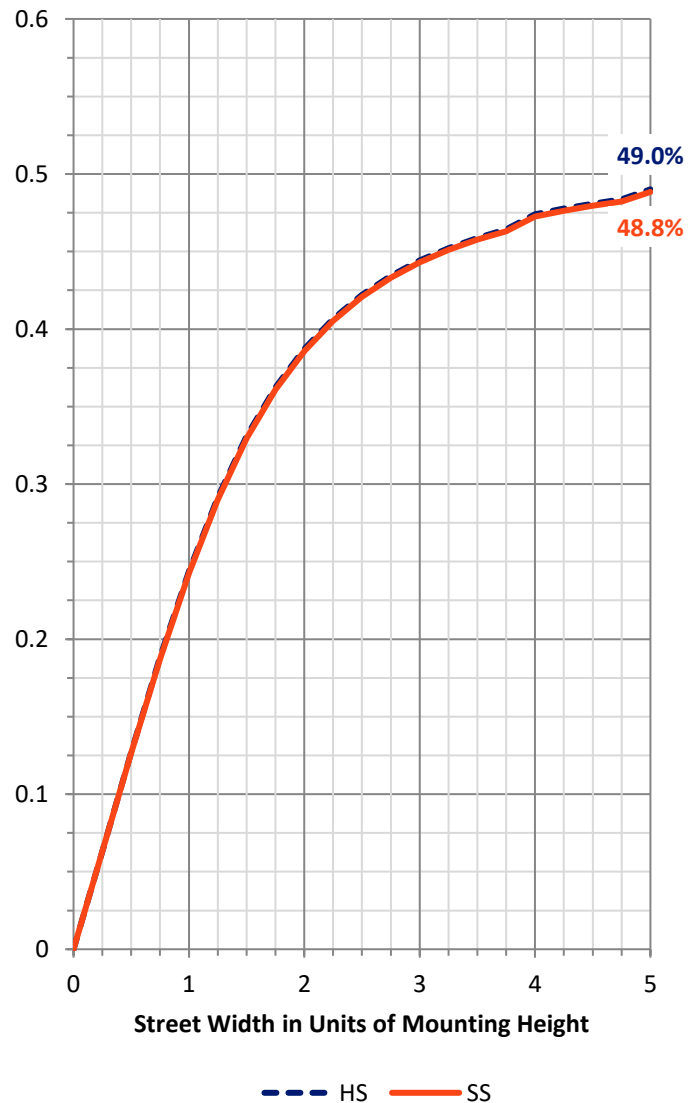
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1902.5	0.0	1902.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1902.5	0.0	1902.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3805.1	0.0	3805.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.1	0.7
10°-20°	88.9	2.3
20°-30°	180.7	4.7
30°-40°	311.5	8.2
40°-50°	524.7	13.8
50°-60°	772.6	20.3
60°-70°	918.8	24.1
70°-80°	743.8	19.5
80°-90°	238.0	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°	3805.1	100.0
0°-180°	3805.1	100.0

Coefficient of Utilization



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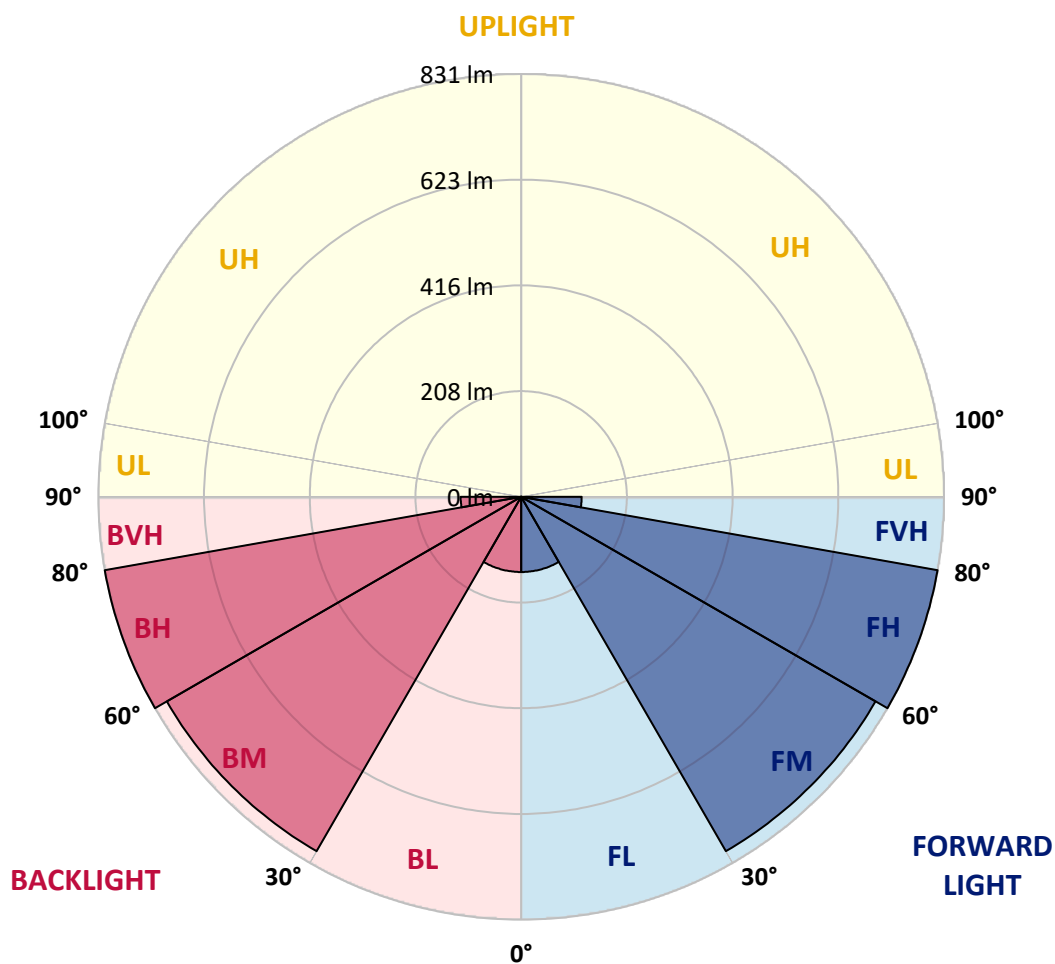
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	147.9	3.9			
FM	(30°-60°)	804.4	21.1			
FH	(60°-80°)	831.3	21.8			G1/1800
FVH	(80°-90°)	119.0	3.1			G2/225
BL	(0°-30°)	147.9	3.9	B1/500		
BM	(30°-60°)	804.4	21.1	B1/1000		
BH	(60°-80°)	831.3	21.8	B2/1000		G1/1800
BVH	(80°-90°)	119.0	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°	259.1	259.1	259.1	259.1	259.1	259.1	259.1	259.1	259.1	259.1	259.1
2.5°	267.2	267.2	267.2	267.2	267.2	267.2	266.4	267.2	266.4	266.4	266.4
5°	272.4	272.4	272.4	272.4	271.5	271.5	270.8	270.8	270.8	270.1	270.8
7.5°	274.5	274.5	274.5	274.5	273.8	273.8	273.8	273.8	273.8	273.8	273.8
10°	279.7	279.7	280.4	281.1	282.6	282.6	282.6	283.4	282.6	282.6	282.6
12.5°	290.7	290.0	291.5	292.9	294.4	295.2	295.2	295.2	294.4	294.4	295.2
15°	306.2	304.7	305.5	306.2	306.9	307.6	307.6	306.9	305.5	305.5	305.5
17.5°	326.0	323.8	323.1	322.4	322.4	323.8	325.3	324.6	325.3	324.6	325.3
20°	349.6	348.1	348.1	348.1	348.8	351.8	354.8	356.2	355.5	354.0	356.2
22.5°	365.0	365.8	369.5	368.7	368.0	371.0	374.6	377.6	376.1	373.9	375.3
25°	382.0	382.0	387.1	389.4	387.1	387.1	388.6	390.8	389.4	387.9	389.4
27.5°	401.1	401.1	403.3	405.6	404.1	404.1	406.3	410.0	409.2	408.5	409.2
30°	423.9	421.0	418.8	422.5	426.2	426.9	429.1	435.0	436.4	435.7	437.2
32.5°	445.3	440.8	442.4	444.6	452.6	455.6	454.9	459.3	458.5	456.3	459.3
35°	465.9	471.1	474.0	478.4	481.4	485.0	485.0	493.1	494.6	492.4	494.6
37.5°	505.6	507.8	515.9	516.7	520.4	534.3	535.8	546.9	552.8	549.8	550.5
40°	560.1	559.4	565.3	574.0	581.5	599.1	604.3	611.6	616.7	614.6	617.5
42.5°	604.3	598.4	602.8	621.9	630.0	643.3	649.9	653.6	663.2	660.2	663.9
45°	635.9	638.1	644.0	663.2	668.3	679.4	694.7	701.4	713.9	710.2	712.5
47.5°	666.8	677.1	682.3	691.1	707.3	722.0	741.2	747.8	765.4	764.0	761.8
50°	707.3	715.4	721.3	727.9	750.0	774.3	790.5	793.4	799.3	794.9	802.2
52.5°	750.7	750.0	755.1	773.6	804.4	814.0	828.0	841.2	853.7	858.2	853.7
55°	808.1	789.7	811.1	837.5	850.8	873.6	907.5	925.9	950.2	953.9	946.5
57.5°	831.7	831.7	853.7	869.2	893.5	934.0	970.1	978.9	991.4	984.7	992.2
60°	828.7	856.7	856.7	883.9	923.7	959.8	973.0	987.7	1004.7	1003.9	1003.9
62.5°	832.5	859.6	852.3	899.4	923.7	953.1	982.6	1009.8	1033.3	1032.6	1031.9
63°	836.1	859.6	855.3	903.0	922.9	954.6	989.9	1017.1	1036.3	1034.8	1035.5
65°	847.1	840.5	867.0	897.2	920.0	967.1	996.5	1017.9	1031.2	1030.4	1030.4
67.5°	826.5	811.1	848.6	860.4	903.8	945.7	968.6	992.9	1002.4	1002.4	1000.9
70°	763.2	769.8	795.6	814.7	858.9	896.4	915.6	946.5	958.2	958.2	957.5
72.5°	699.2	710.2	727.9	755.1	797.1	826.5	849.4	877.3	892.7	892.0	892.0
75°	617.5	627.8	648.4	674.2	710.9	739.7	758.1	784.6	802.2	808.8	801.5
77.5°	525.5	528.4	547.6	574.0	606.4	626.3	654.3	680.1	694.7	694.0	691.8
80°	413.6	417.3	433.5	463.6	481.4	504.9	530.7	544.6	557.1	557.1	555.7
82.5°	285.6	293.6	309.8	329.7	348.1	368.7	382.7	396.7	407.0	406.3	404.1
85°	161.2	164.9	180.3	192.8	206.8	220.1	229.6	238.4	247.3	247.3	245.8
87.5°	48.6	43.4	52.3	57.4	64.8	71.4	75.8	84.6	90.5	83.9	83.9
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°	259.1	259.1	259.1	259.1	259.1	259.1	259.1	259.1
2.5°	267.2	267.2	267.2	267.2	267.2	267.2	267.2	267.2
5°	270.8	271.5	271.5	272.4	272.4	272.4	272.4	272.4
7.5°	273.8	273.8	273.8	273.8	274.5	274.5	274.5	274.5
10°	282.6	283.4	282.6	282.6	281.1	280.4	280.4	280.4
12.5°	295.2	295.9	295.9	294.4	292.9	291.5	290.7	290.0
15°	306.9	309.1	307.6	306.9	305.5	306.2	306.2	306.9
17.5°	325.3	326.0	323.8	322.4	321.7	323.1	324.6	325.3
20°	357.0	355.5	351.1	349.6	348.1	348.1	349.6	349.6
22.5°	376.9	373.2	370.2	368.7	368.7	368.7	366.6	363.6
25°	390.8	388.6	386.4	387.9	389.4	387.1	382.0	381.2
27.5°	410.0	405.6	404.8	404.1	404.8	403.3	402.6	399.7
30°	435.0	429.1	427.6	426.2	421.7	420.2	421.7	423.9
32.5°	458.5	454.9	456.3	453.4	445.3	442.4	443.8	443.1
35°	492.4	485.7	485.7	479.8	477.7	476.9	471.1	465.9
37.5°	546.1	537.3	535.0	521.8	515.9	517.4	509.3	503.5
40°	611.6	605.0	599.1	584.4	576.3	566.0	560.8	560.8
42.5°	655.0	650.6	642.5	632.2	623.4	605.7	599.1	602.8
45°	702.9	697.0	680.1	669.8	661.6	649.1	641.8	634.4
47.5°	751.5	743.3	723.5	710.2	691.1	687.4	679.4	669.0
50°	794.2	791.2	777.2	755.1	730.8	725.0	717.6	708.0
52.5°	846.4	828.7	817.0	807.4	780.2	761.1	750.7	755.1
55°	931.8	909.7	879.5	849.4	843.5	820.6	794.9	808.8
57.5°	981.1	968.6	945.7	897.9	874.4	858.9	842.0	829.5
60°	992.9	970.1	964.9	928.8	891.3	858.9	865.6	836.1
62.5°	1015.7	984.7	956.1	927.4	904.6	860.4	858.9	843.5
63°	1023.0	992.2	961.9	927.4	906.7	865.6	857.4	849.4
65°	1021.6	995.1	972.3	927.4	896.4	880.2	840.5	858.9
67.5°	993.6	971.5	945.0	914.1	862.6	850.1	822.1	825.8
70°	948.7	920.0	895.0	866.3	825.0	796.4	779.4	765.4
72.5°	878.8	853.0	826.5	800.1	763.2	728.7	716.8	701.4
75°	786.0	761.1	736.7	711.7	677.1	646.2	633.7	622.6
77.5°	680.1	658.7	624.2	600.6	580.7	547.6	535.8	524.0
80°	542.5	532.1	507.1	476.2	465.9	433.5	424.6	409.2
82.5°	394.5	384.2	364.3	342.9	330.5	313.5	298.8	288.6
85°	240.7	229.6	219.3	200.2	192.8	180.3	168.6	162.7
87.5°	86.9	78.0	69.9	61.1	56.6	47.9	46.3	42.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)