

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: P197797

Luminaire Tested: **TT-C1-LED-E1-WQ-CG-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197797
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-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2709.9 lumens
Efficiency: N/A
Efficacy: 96.8 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

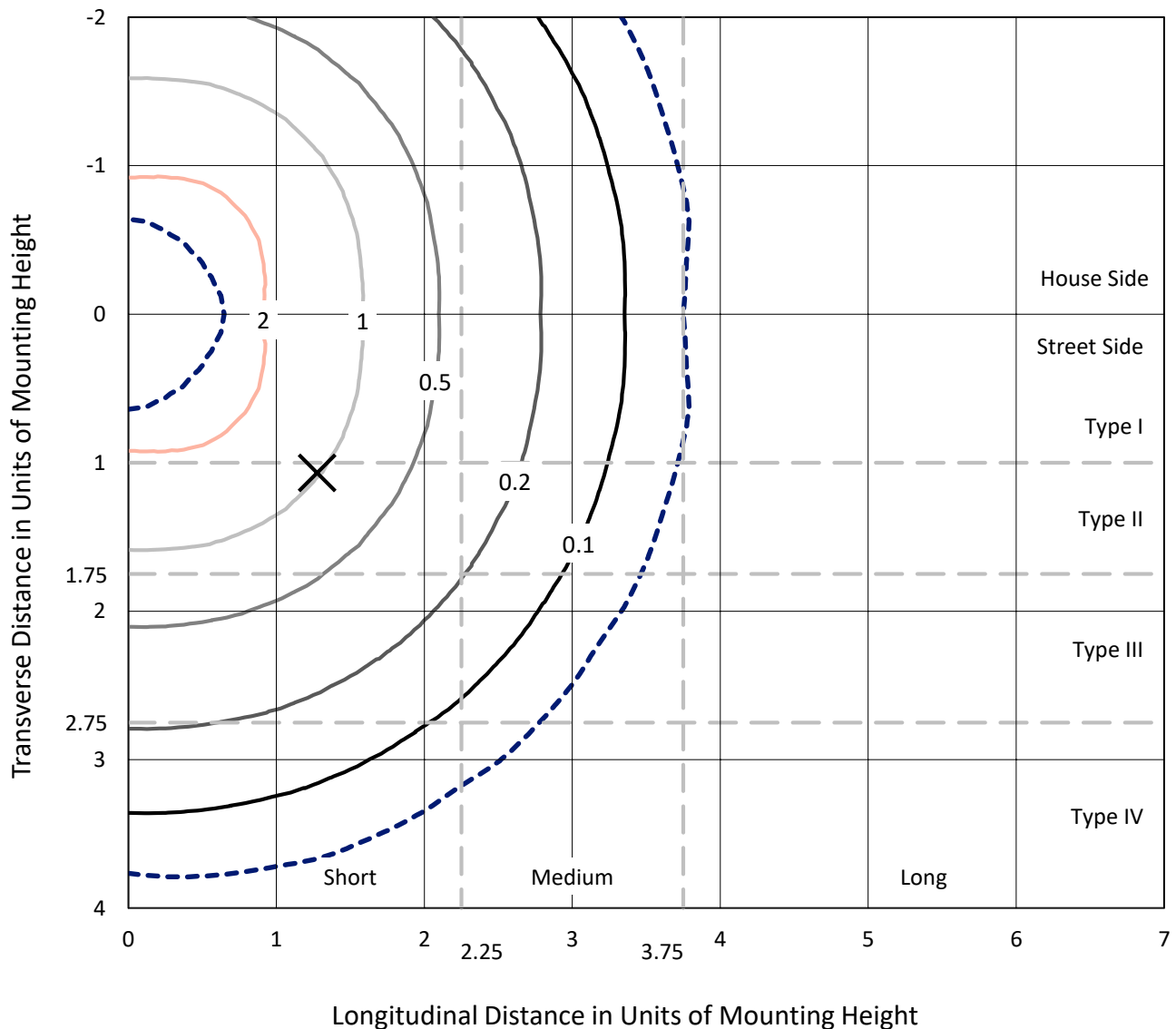


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

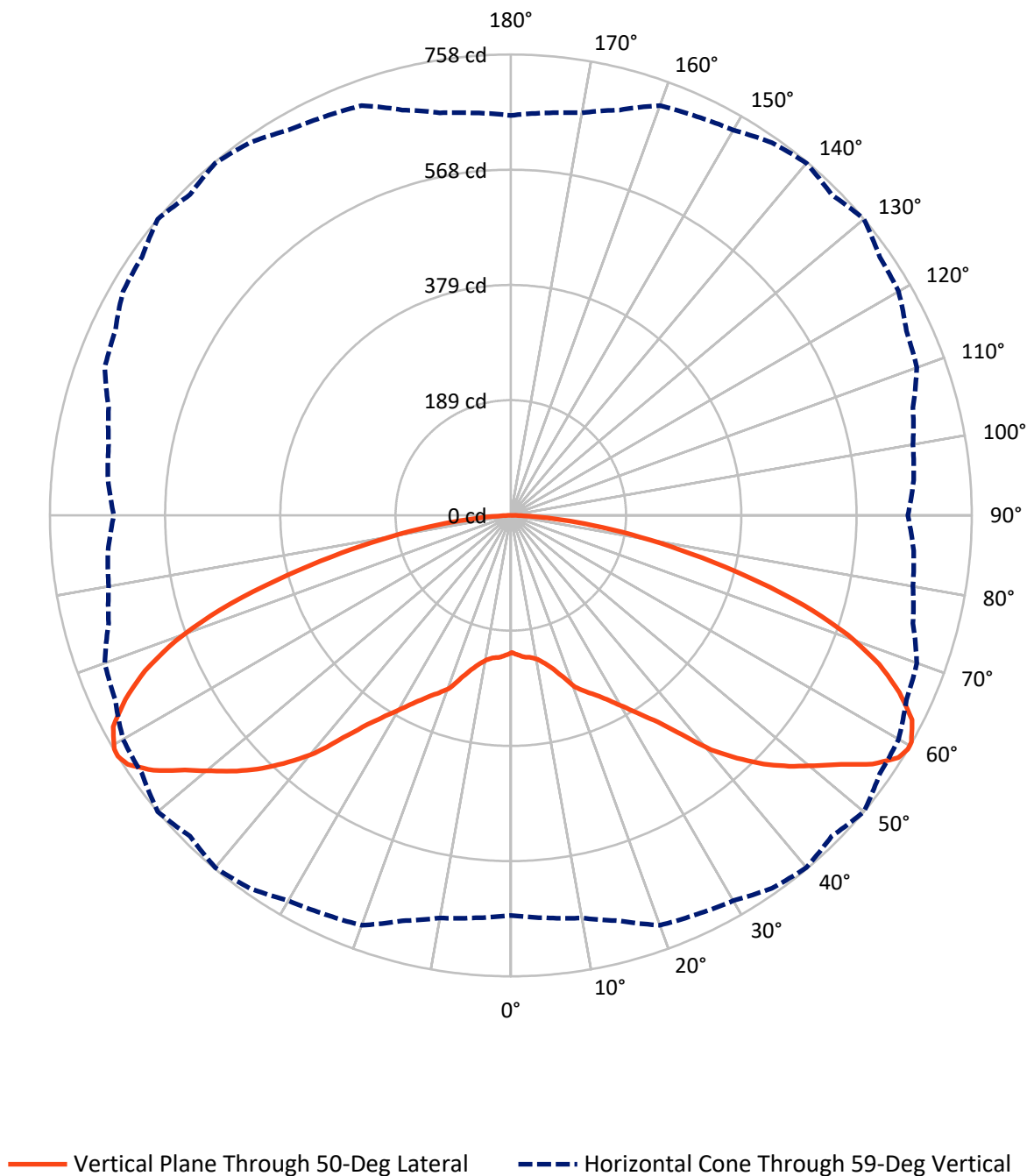


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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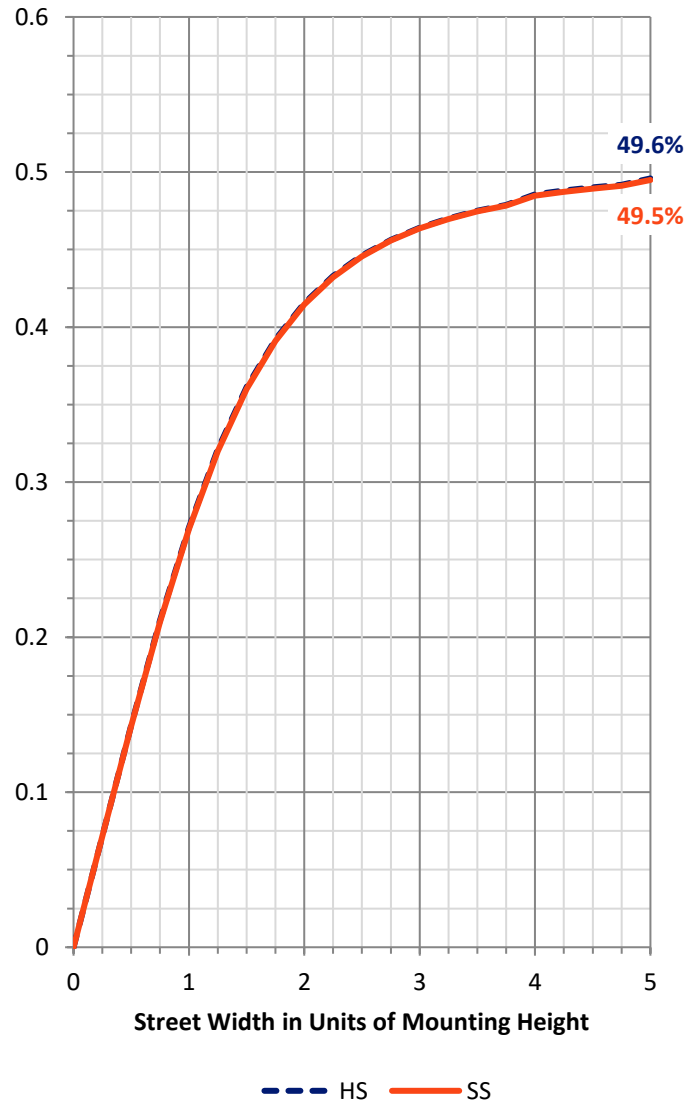
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1355.0	0.0	1355.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1355.0	0.0	1355.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	2709.9	0.0	2709.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.4	0.8
10°-20°	75.7	2.8
20°-30°	152.3	5.6
30°-40°	262.1	9.7
40°-50°	432.7	16.0
50°-60°	609.3	22.5
60°-70°	651.8	24.1
70°-80°	414.0	15.3
80°-90°	89.5	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°	2709.9	100.0
0°-180°	2709.9	100.0

Coefficient of Utilization



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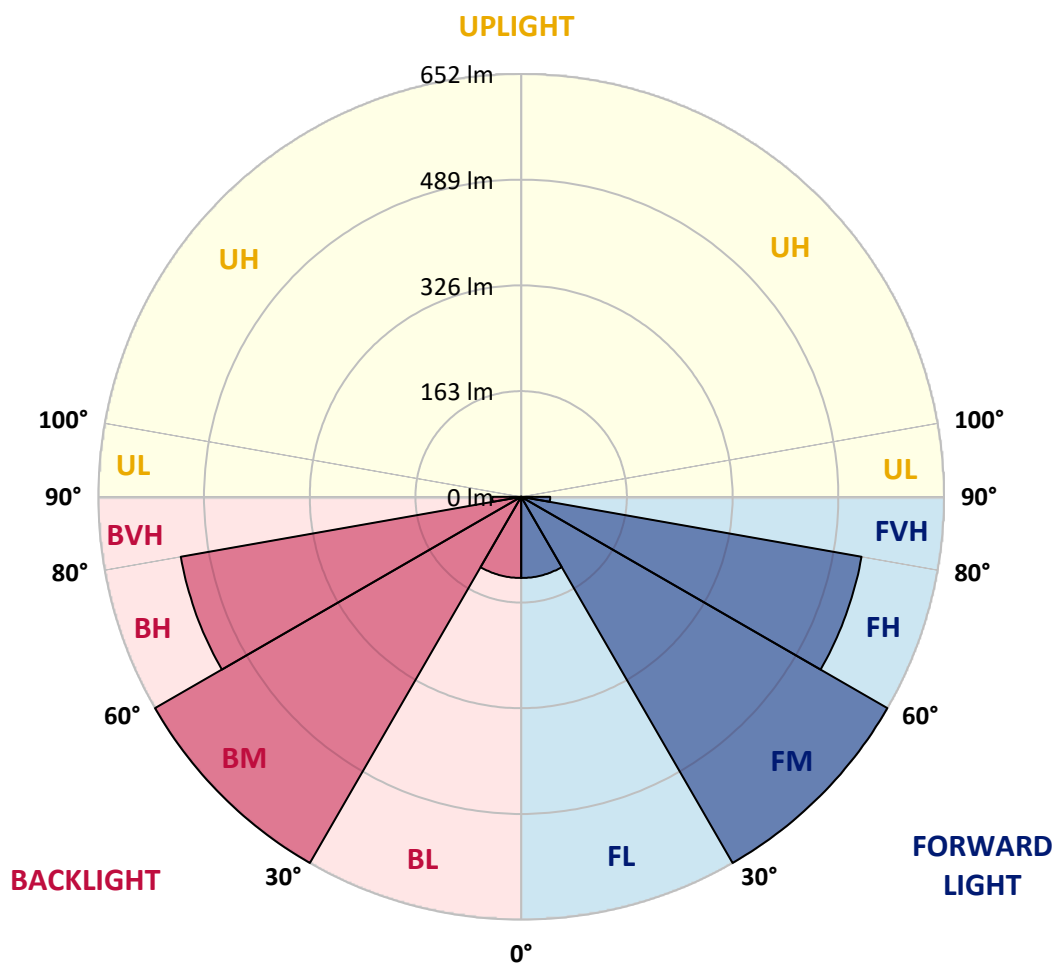
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	125.2	4.6			
FM	(30°-60°)	652.1	24.1			
FH	(60°-80°)	532.9	19.7			G0/660
FVH	(80°-90°)	44.7	1.7			G1/100
BL	(0°-30°)	125.2	4.6	B1/500		
BM	(30°-60°)	652.1	24.1	B1/1000		
BH	(60°-80°)	532.9	19.7	B2/1000		G0/660
BVH	(80°-90°)	44.7	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°	225.5	225.5	225.5	225.5	225.5	225.5	225.5	225.5	225.5	225.5	225.5
2.5°	230.3	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7
5°	231.5	231.5	232.1	232.1	232.7	232.7	232.7	233.3	233.3	233.3	233.9
7.5°	233.9	233.3	233.9	233.9	233.9	234.5	234.5	234.5	235.1	235.7	235.7
10°	241.7	241.1	241.7	241.7	241.7	240.5	240.5	241.1	240.5	240.5	240.5
12.5°	250.7	250.7	251.3	251.9	251.9	251.3	250.7	250.1	249.5	249.5	249.5
15°	259.1	259.7	260.3	261.5	262.1	262.1	262.7	263.3	262.7	262.7	262.1
17.5°	272.3	273.5	274.1	274.7	274.7	274.7	275.9	277.7	279.5	280.7	279.5
20°	294.5	295.1	296.3	296.3	295.7	296.3	297.5	298.1	299.3	300.5	301.1
22.5°	309.5	310.7	312.5	312.5	311.9	312.5	313.7	313.7	312.5	313.1	314.3
25°	322.1	322.7	323.9	324.5	325.1	328.1	330.5	329.9	327.5	328.1	327.5
27.5°	337.1	338.3	339.5	339.5	339.5	341.3	343.7	344.9	346.7	346.1	344.3
30°	356.9	358.7	359.3	358.7	359.9	361.7	361.1	362.3	365.3	368.3	364.7
32.5°	372.5	374.3	376.1	378.5	382.7	385.1	383.9	384.5	386.3	388.7	388.7
35°	395.9	398.9	400.1	400.7	404.9	409.7	413.3	416.3	415.7	413.9	416.9
37.5°	431.3	434.3	435.5	437.9	443.3	444.5	449.9	457.1	459.5	457.1	457.1
40°	469.1	472.1	478.1	483.5	491.9	493.7	500.3	503.3	509.3	509.9	506.3
42.5°	500.3	503.9	505.1	514.1	525.5	533.9	541.1	541.7	545.9	549.5	545.3
45°	533.9	536.9	538.7	547.1	553.0	563.2	574.6	579.4	581.2	580.6	583.0
47.5°	565.0	569.2	571.0	577.6	584.8	593.2	599.8	613.6	616.6	610.6	616.0
50°	584.2	589.0	593.2	607.6	620.2	626.8	632.2	643.6	650.2	644.8	646.6
52.5°	614.2	615.4	619.0	625.0	643.6	665.8	671.8	675.4	685.0	688.0	679.6
55°	655.0	659.2	662.2	670.0	677.8	693.4	719.8	724.6	722.2	736.6	721.6
57.5°	661.0	668.8	677.8	695.2	710.8	715.6	731.2	749.8	748.0	749.8	751.0
59°	657.4	664.0	671.8	689.8	716.8	723.4	731.2	748.0	755.8	745.6	757.6
60°	658.6	663.4	667.6	682.0	710.8	725.8	730.6	740.8	755.8	742.0	756.4
62.5°	653.8	659.8	664.6	673.0	686.8	707.8	726.4	721.6	743.2	732.4	740.2
65°	628.0	634.6	644.2	656.2	672.4	678.4	697.0	707.2	702.4	714.4	701.8
67.5°	584.8	590.8	596.8	611.2	629.2	637.0	641.8	660.4	653.8	667.6	653.2
70°	527.3	533.9	542.3	550.1	566.2	572.8	578.2	586.6	589.0	589.0	587.8
72.5°	458.3	463.7	469.1	476.9	486.5	492.5	494.9	496.7	506.3	502.7	503.3
75°	380.3	385.7	388.1	391.1	397.7	397.1	399.5	398.3	404.3	401.9	400.7
77.5°	297.5	299.3	305.9	305.9	304.1	307.1	304.1	302.3	301.1	302.3	302.3
80°	206.3	211.7	215.9	218.9	220.1	218.9	219.5	217.1	217.1	215.3	215.9
82.5°	127.2	132.6	134.4	137.4	138.0	138.0	138.0	136.2	136.8	135.0	136.2
85°	62.4	62.4	64.8	67.8	68.4	69.6	69.6	69.6	69.6	69.6	70.2
87.5°	15.6	15.6	16.8	18.6	18.6	19.2	19.8	20.4	20.4	21.0	21.0
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°	225.5	225.5	225.5	225.5	225.5	225.5	225.5	225.5
2.5°	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7
5°	233.9	233.3	233.3	232.7	232.7	232.1	232.1	232.1
7.5°	236.3	236.3	235.7	235.1	234.5	234.5	235.1	235.1
10°	241.1	242.3	242.9	242.9	242.3	242.3	241.7	241.7
12.5°	248.9	250.1	251.3	252.5	252.5	251.9	250.7	250.1
15°	260.9	260.9	261.5	262.1	262.1	260.9	258.5	258.5
17.5°	277.1	275.9	274.1	274.7	275.3	274.7	272.3	273.5
20°	299.3	296.9	295.7	294.5	296.9	296.9	293.3	293.3
22.5°	315.5	313.7	310.7	310.1	311.9	313.1	310.1	308.3
25°	329.3	329.9	326.3	324.5	325.1	325.7	321.5	322.1
27.5°	344.3	344.9	343.1	340.1	338.9	340.7	337.7	336.5
30°	362.3	361.7	362.9	359.3	356.3	358.1	358.1	355.1
32.5°	385.7	383.9	384.5	380.3	376.7	376.1	373.7	370.1
35°	417.5	412.7	409.1	406.7	400.1	398.9	398.9	394.7
37.5°	458.9	451.7	445.1	445.1	434.9	431.9	433.7	428.3
40°	505.1	502.7	492.5	490.7	479.9	472.7	472.7	466.1
42.5°	538.7	541.7	529.7	522.5	515.3	503.9	505.1	496.7
45°	575.2	573.4	563.2	550.7	548.3	536.3	537.5	529.1
47.5°	610.0	599.2	594.4	581.8	576.4	562.6	566.8	560.2
50°	643.6	631.6	626.8	611.8	604.6	589.6	590.2	578.2
52.5°	678.4	667.6	660.4	641.2	628.6	617.8	615.4	610.0
55°	723.4	712.0	694.6	676.6	667.0	651.4	653.2	644.8
57.5°	740.8	733.6	715.0	704.2	686.2	670.6	667.0	652.0
59°	740.2	736.0	717.4	710.2	684.4	671.2	664.6	652.6
60°	736.0	734.8	716.2	707.2	680.2	668.2	662.2	654.4
62.5°	723.4	722.8	701.8	691.0	668.8	659.2	655.6	645.4
65°	704.8	694.6	678.4	671.2	648.4	641.2	631.0	620.8
67.5°	660.4	637.6	635.2	626.2	606.4	597.4	590.8	581.2
70°	587.2	572.2	572.2	560.8	547.1	542.9	533.9	523.1
72.5°	496.1	492.5	494.3	481.1	474.5	472.1	464.3	454.7
75°	396.5	397.1	395.3	392.3	390.5	391.1	382.7	378.5
77.5°	300.5	305.9	304.7	300.5	304.7	304.1	296.9	295.1
80°	214.1	216.5	217.7	215.3	217.7	215.9	209.9	209.3
82.5°	135.0	135.6	136.8	134.4	135.0	134.4	130.2	130.2
85°	69.0	71.4	68.4	66.0	66.0	63.6	62.4	63.0
87.5°	20.4	21.6	19.2	19.2	18.0	16.8	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)