

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: P197800

Luminaire Tested: **TT-C1-LED-E1-WQ-CG-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197800
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-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: 2931.6 lumens
Efficiency: N/A
Efficacy: 104.7 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



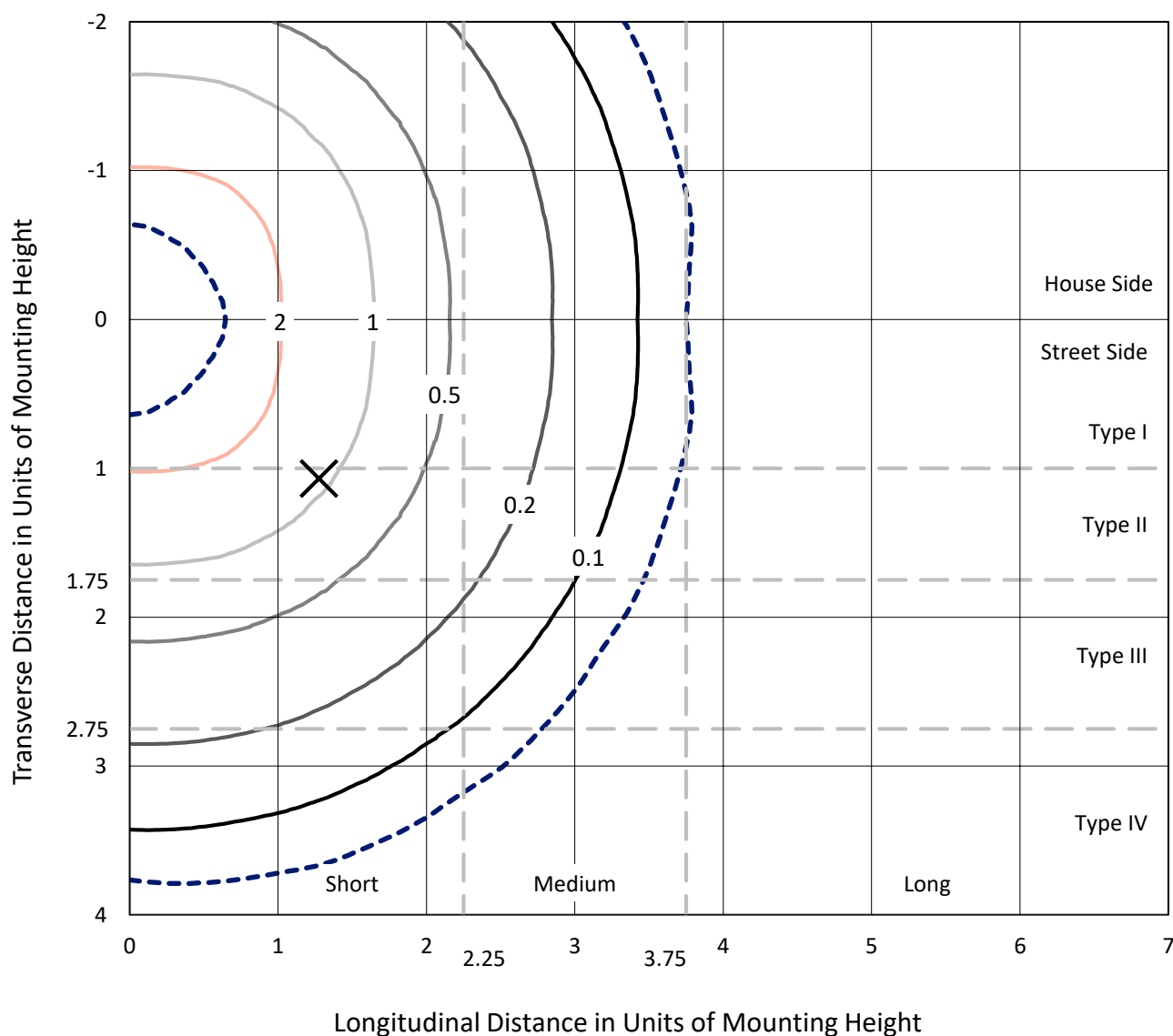
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

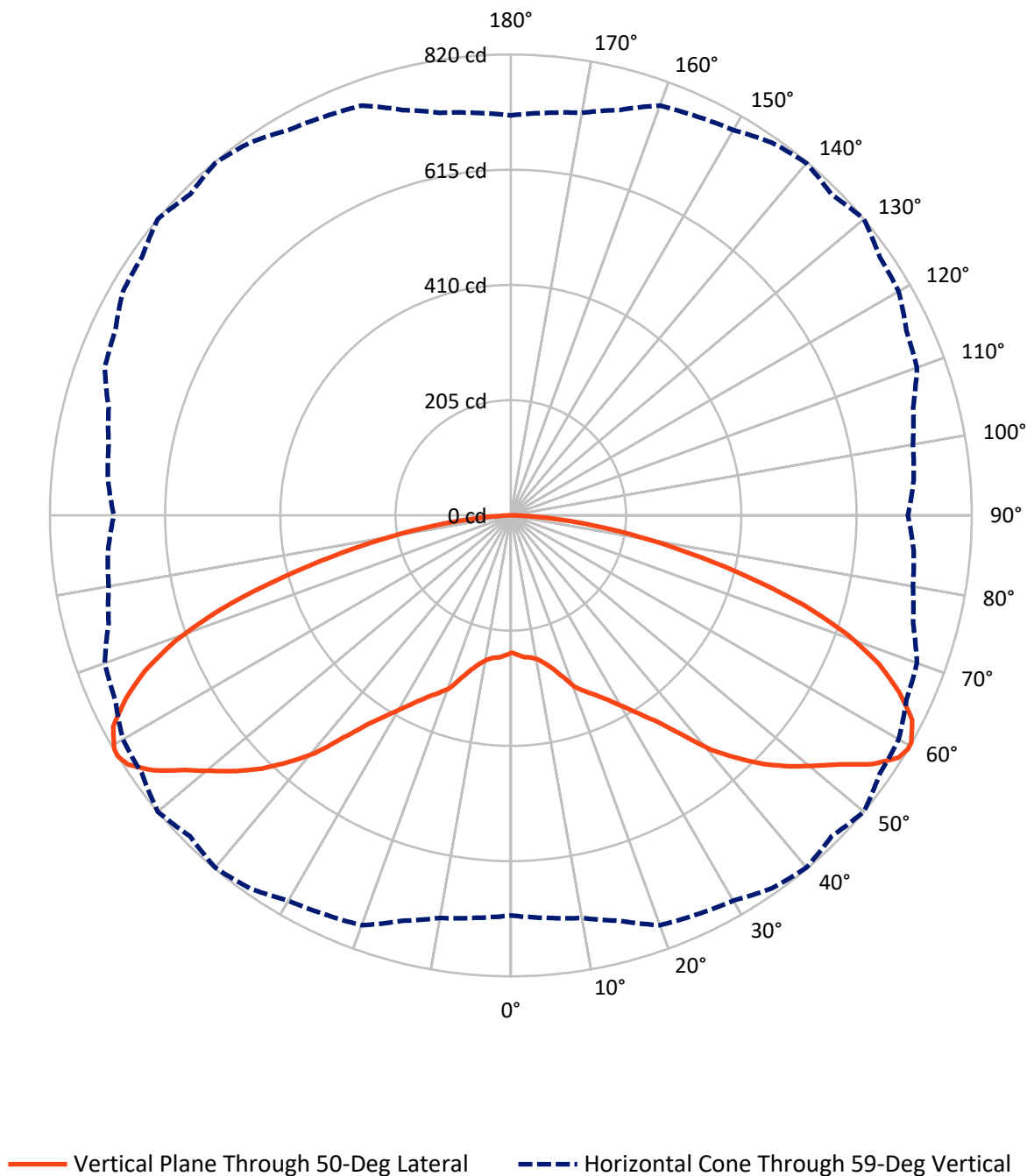


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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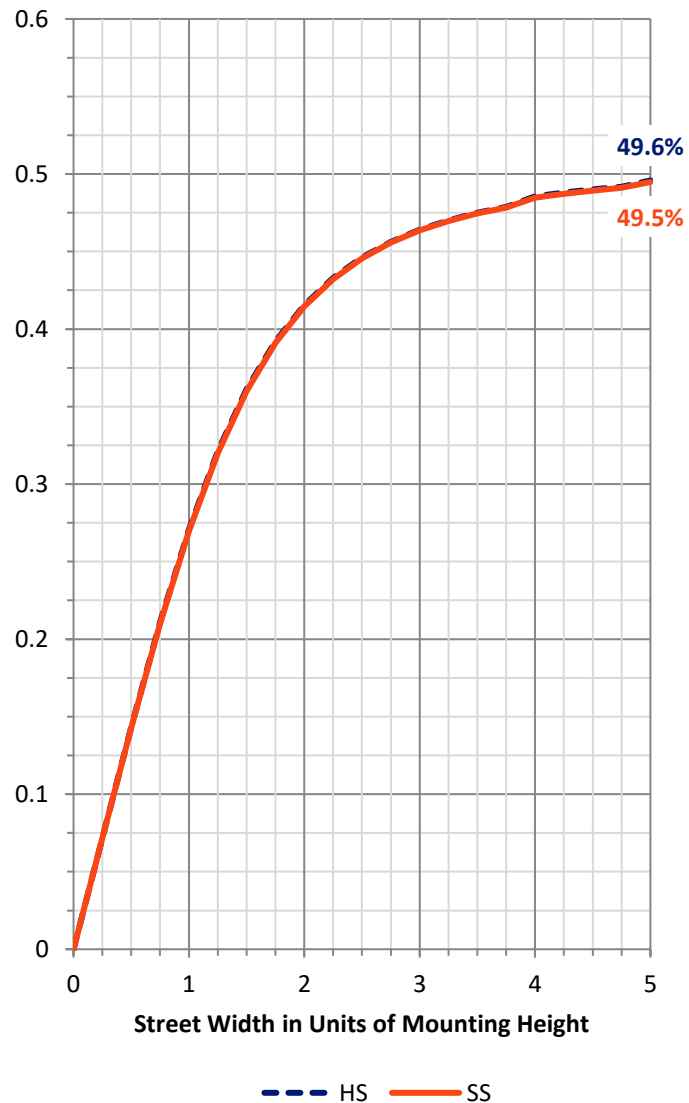
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1465.8	0.0	1465.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1465.8	0.0	1465.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	2931.6	0.0	2931.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.3	0.8
10°-20°	81.9	2.8
20°-30°	164.8	5.6
30°-40°	283.5	9.7
40°-50°	468.1	16.0
50°-60°	659.2	22.5
60°-70°	705.2	24.1
70°-80°	447.9	15.3
80°-90°	96.8	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°	2931.6	100.0
0°-180°	2931.6	100.0

Coefficient of Utilization



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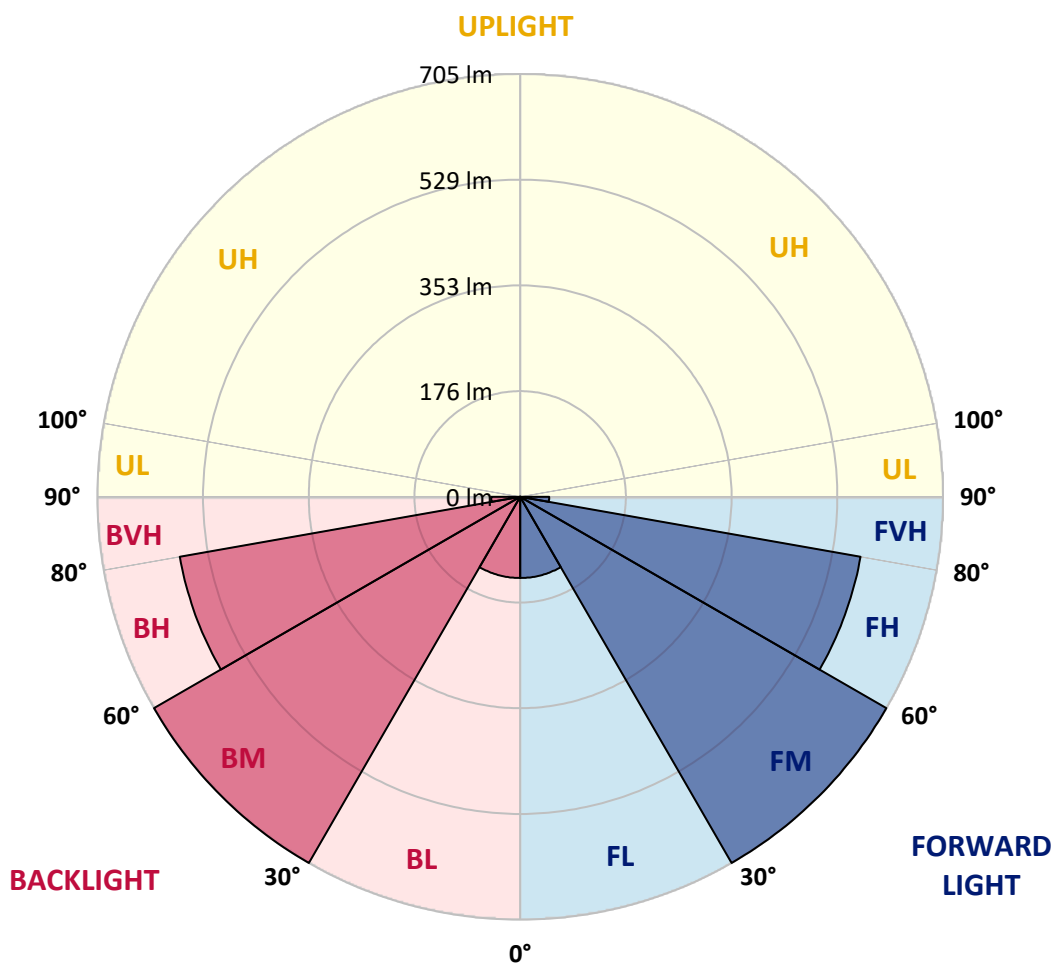
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	135.5	4.6			
FM	(30°-60°)	705.4	24.1			
FH	(60°-80°)	576.5	19.7			G0/660
FVH	(80°-90°)	48.4	1.7			G1/100
BL	(0°-30°)	135.5	4.6	B1/500		
BM	(30°-60°)	705.4	24.1	B1/1000		
BH	(60°-80°)	576.5	19.7	B2/1000		G0/660
BVH	(80°-90°)	48.4	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°	244.0	244.0	244.0	244.0	244.0	244.0	244.0	244.0	244.0	244.0	244.0
2.5°	249.2	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5
5°	250.5	250.5	251.1	251.1	251.8	251.8	251.8	252.4	252.4	252.4	253.1
7.5°	253.1	252.4	253.1	253.1	253.1	253.7	253.7	253.7	254.4	255.0	255.0
10°	261.5	260.9	261.5	261.5	261.5	260.2	260.2	260.9	260.2	260.2	260.2
12.5°	271.2	271.2	271.9	272.5	272.5	271.9	271.2	270.6	269.9	269.9	269.9
15°	280.3	281.0	281.6	282.9	283.6	283.6	284.2	284.9	284.2	284.2	283.6
17.5°	294.6	295.9	296.5	297.2	297.2	297.2	298.5	300.4	302.4	303.7	302.4
20°	318.6	319.3	320.6	320.6	319.9	320.6	321.8	322.5	323.8	325.1	325.7
22.5°	334.8	336.1	338.1	338.1	337.4	338.1	339.4	339.4	338.1	338.7	340.0
25°	348.5	349.1	350.4	351.0	351.7	354.9	357.5	356.9	354.3	354.9	354.3
27.5°	364.7	366.0	367.3	367.3	367.3	369.2	371.8	373.1	375.1	374.4	372.5
30°	386.1	388.0	388.7	388.0	389.3	391.3	390.6	391.9	395.2	398.4	394.5
32.5°	403.0	404.9	406.9	409.4	414.0	416.6	415.3	415.9	417.9	420.5	420.5
35°	428.3	431.5	432.8	433.5	438.0	443.2	447.1	450.3	449.7	447.7	451.0
37.5°	466.6	469.8	471.1	473.7	479.5	480.8	486.7	494.5	497.0	494.5	494.5
40°	507.4	510.7	517.2	523.0	532.1	534.0	541.2	544.4	550.9	551.6	547.7
42.5°	541.2	545.1	546.4	556.1	568.4	577.5	585.3	585.9	590.5	594.4	589.8
45°	577.5	580.8	582.7	591.8	598.3	609.3	621.6	626.8	628.8	628.1	630.7
47.5°	611.3	615.8	617.7	624.9	632.7	641.8	648.9	663.8	667.1	660.6	666.4
50°	632.0	637.2	641.8	657.3	671.0	678.1	683.9	696.3	703.4	697.6	699.5
52.5°	664.5	665.8	669.7	676.1	696.3	720.3	726.8	730.6	741.0	744.3	735.2
55°	708.6	713.1	716.4	724.8	733.2	750.1	778.7	783.9	781.3	796.8	780.6
57.5°	715.1	723.5	733.2	752.1	768.9	774.1	791.0	811.1	809.2	811.1	812.4
59°	711.2	718.3	726.8	746.2	775.4	782.6	791.0	809.2	817.6	806.6	819.5
60°	712.5	717.7	722.2	737.8	768.9	785.2	790.3	801.4	817.6	802.7	818.2
62.5°	707.3	713.8	719.0	728.1	743.0	765.7	785.8	780.6	804.0	792.3	800.7
65°	679.4	686.5	696.9	709.9	727.4	733.9	754.0	765.0	759.8	772.8	759.2
67.5°	632.7	639.2	645.6	661.2	680.7	689.1	694.3	714.4	707.3	722.2	706.6
70°	570.4	577.5	586.6	595.0	612.6	619.7	625.5	634.6	637.2	637.2	635.9
72.5°	495.8	501.6	507.4	515.9	526.2	532.7	535.3	537.3	547.7	543.8	544.4
75°	411.4	417.2	419.8	423.1	430.2	429.6	432.2	430.9	437.4	434.8	433.5
77.5°	321.8	323.8	330.9	330.9	329.0	332.2	329.0	327.0	325.7	327.0	327.0
80°	223.2	229.1	233.6	236.8	238.1	236.8	237.5	234.9	234.9	233.0	233.6
82.5°	137.6	143.4	145.4	148.6	149.2	149.2	149.2	147.3	147.9	146.0	147.3
85°	67.5	67.5	70.1	73.3	74.0	75.3	75.3	75.3	75.3	75.3	75.9
87.5°	16.9	16.9	18.2	20.1	20.1	20.8	21.4	22.1	22.1	22.7	22.7
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°	244.0	244.0	244.0	244.0	244.0	244.0	244.0	244.0
2.5°	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5
5°	253.1	252.4	252.4	251.8	251.8	251.1	251.1	251.1
7.5°	255.7	255.7	255.0	254.4	253.7	253.7	254.4	254.4
10°	260.9	262.2	262.8	262.8	262.2	262.2	261.5	261.5
12.5°	269.3	270.6	271.9	273.2	273.2	272.5	271.2	270.6
15°	282.3	282.3	282.9	283.6	283.6	282.3	279.7	279.7
17.5°	299.8	298.5	296.5	297.2	297.8	297.2	294.6	295.9
20°	323.8	321.2	319.9	318.6	321.2	321.2	317.3	317.3
22.5°	341.3	339.4	336.1	335.5	337.4	338.7	335.5	333.5
25°	356.2	356.9	353.0	351.0	351.7	352.3	347.8	348.5
27.5°	372.5	373.1	371.2	367.9	366.6	368.6	365.3	364.0
30°	391.9	391.3	392.6	388.7	385.4	387.4	387.4	384.1
32.5°	417.2	415.3	415.9	411.4	407.5	406.9	404.3	400.4
35°	451.6	446.4	442.5	439.9	432.8	431.5	431.5	427.0
37.5°	496.4	488.6	481.5	481.5	470.4	467.2	469.1	463.3
40°	546.4	543.8	532.7	530.8	519.1	511.3	511.3	504.2
42.5°	582.7	585.9	573.0	565.2	557.4	545.1	546.4	537.3
45°	622.3	620.3	609.3	595.7	593.1	580.1	581.4	572.3
47.5°	659.9	648.2	643.0	629.4	623.6	608.7	613.2	606.1
50°	696.3	683.3	678.1	661.9	654.1	637.9	638.5	625.5
52.5°	733.9	722.2	714.4	693.7	680.0	668.4	665.8	659.9
55°	782.6	770.2	751.4	731.9	721.6	704.7	706.6	697.6
57.5°	801.4	793.6	773.5	761.8	742.3	725.5	721.6	705.3
59°	800.7	796.2	776.1	768.3	740.4	726.1	719.0	706.0
60°	796.2	794.9	774.8	765.0	735.8	722.9	716.4	707.9
62.5°	782.6	781.9	759.2	747.5	723.5	713.1	709.2	698.2
65°	762.4	751.4	733.9	726.1	701.4	693.7	682.6	671.6
67.5°	714.4	689.8	687.2	677.4	656.0	646.3	639.2	628.8
70°	635.3	619.0	619.0	606.7	591.8	587.2	577.5	565.8
72.5°	536.6	532.7	534.7	520.4	513.3	510.7	502.2	491.9
75°	428.9	429.6	427.6	424.4	422.4	423.1	414.0	409.4
77.5°	325.1	330.9	329.6	325.1	329.6	329.0	321.2	319.3
80°	231.7	234.2	235.5	233.0	235.5	233.6	227.1	226.5
82.5°	146.0	146.6	147.9	145.4	146.0	145.4	140.8	140.8
85°	74.6	77.2	74.0	71.4	71.4	68.8	67.5	68.1
87.5°	22.1	23.4	20.8	20.8	19.5	18.2	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)