

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: P198196

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34709)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C1-LED-E1-DL-CG-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2744 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 33.5
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

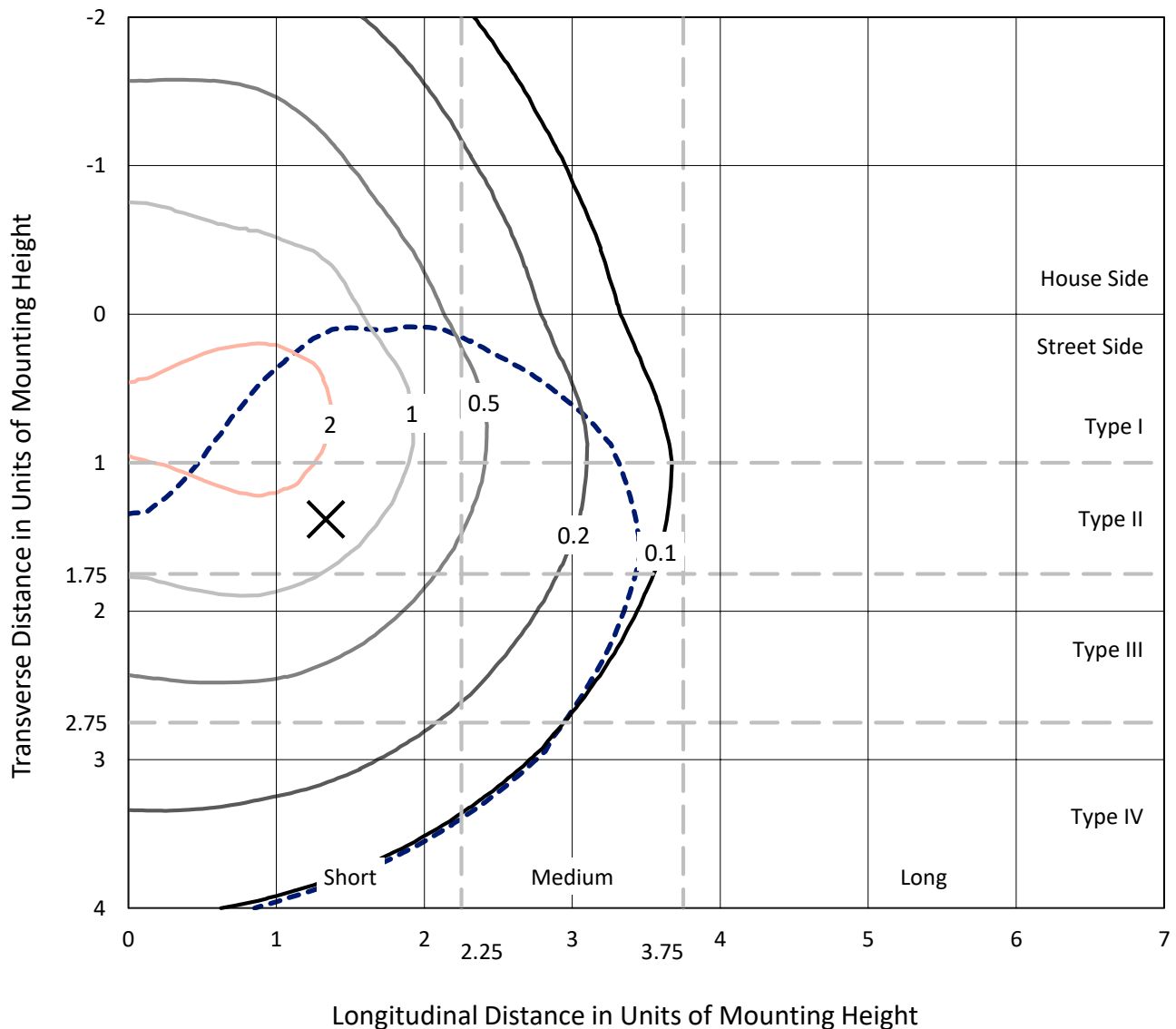


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

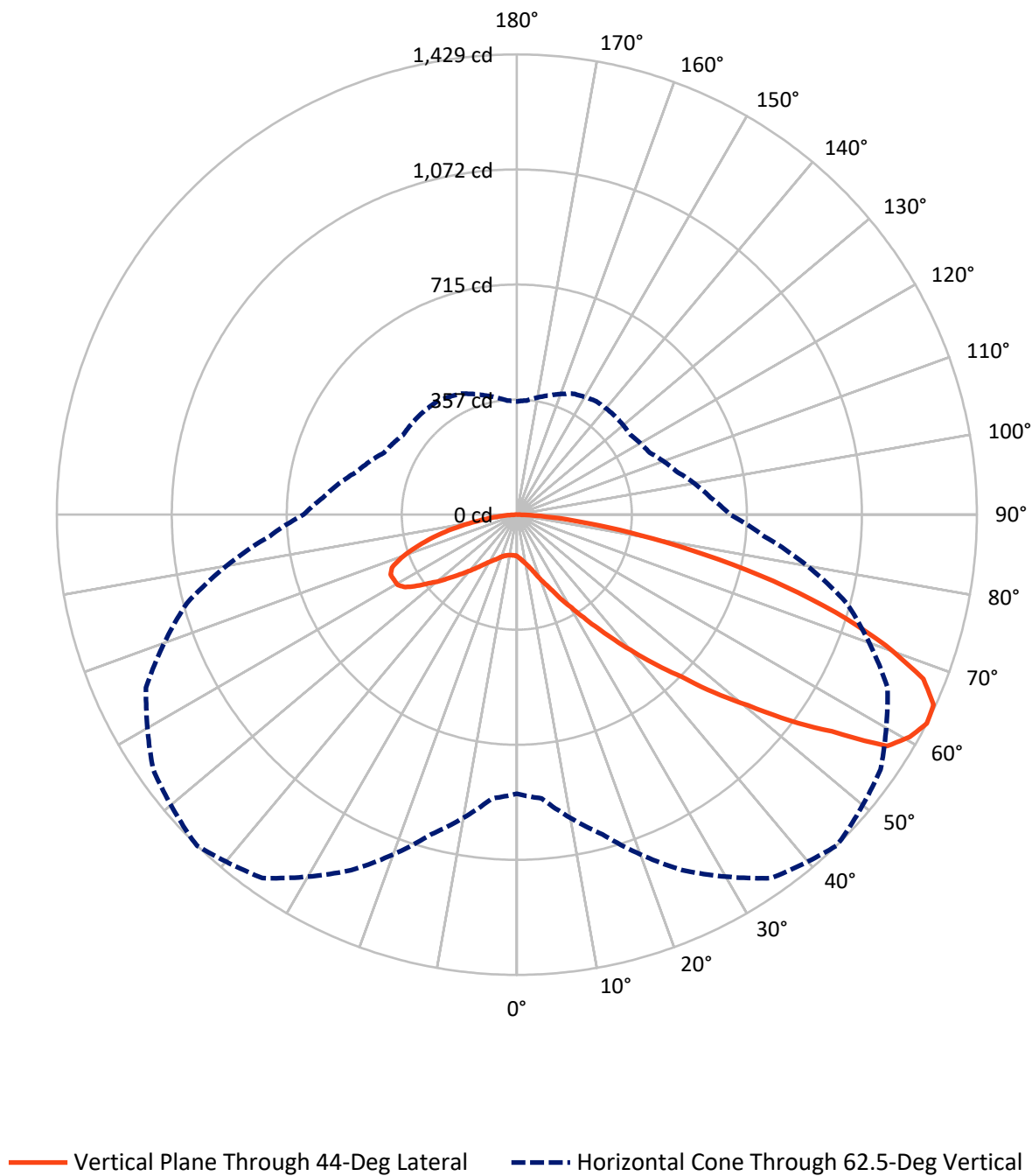


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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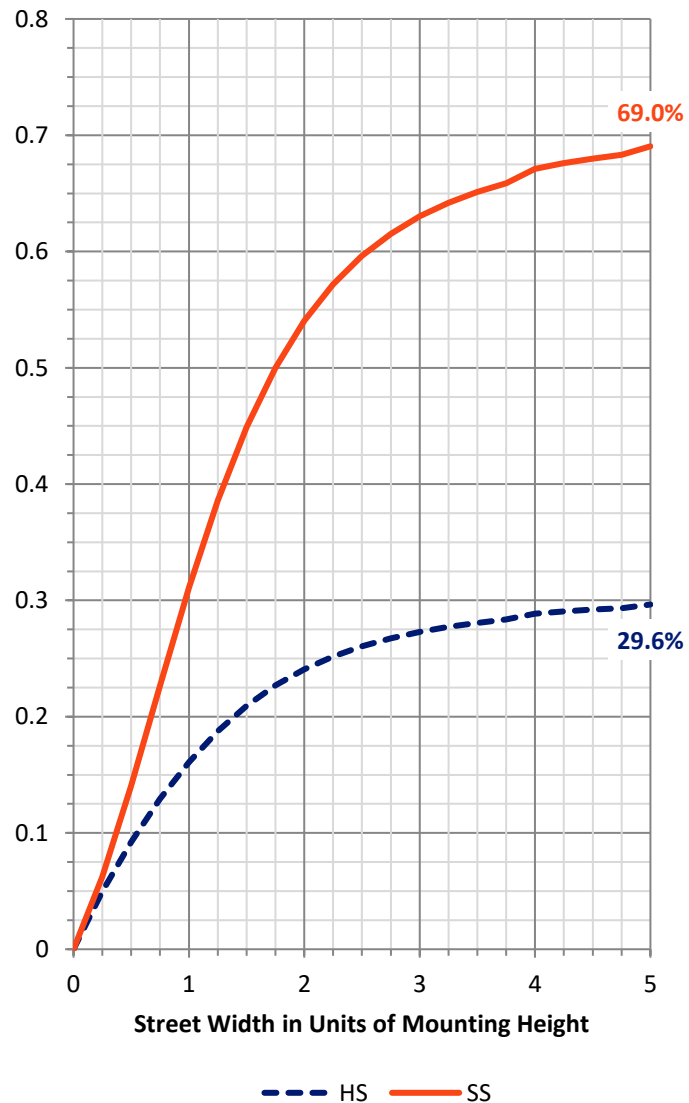
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	823.9	0.0	823.9
	% Fixture	30.0	0.0	30.0
Street Side	Lumens	1920.0	0.0	1920.0
	% Fixture	70.0	0.0	70.0
Total	Lumens	2744.0	0.0	2744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	0.5
10°-20°	44.7	1.6
20°-30°	96.7	3.5
30°-40°	190.8	7.0
40°-50°	360.8	13.1
50°-60°	620.0	22.6
60°-70°	778.0	28.4
70°-80°	531.3	19.4
80°-90°	108.7	4.0
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°	2744.0	100.0
0°-180°	2744.0	100.0

Coefficient of Utilization



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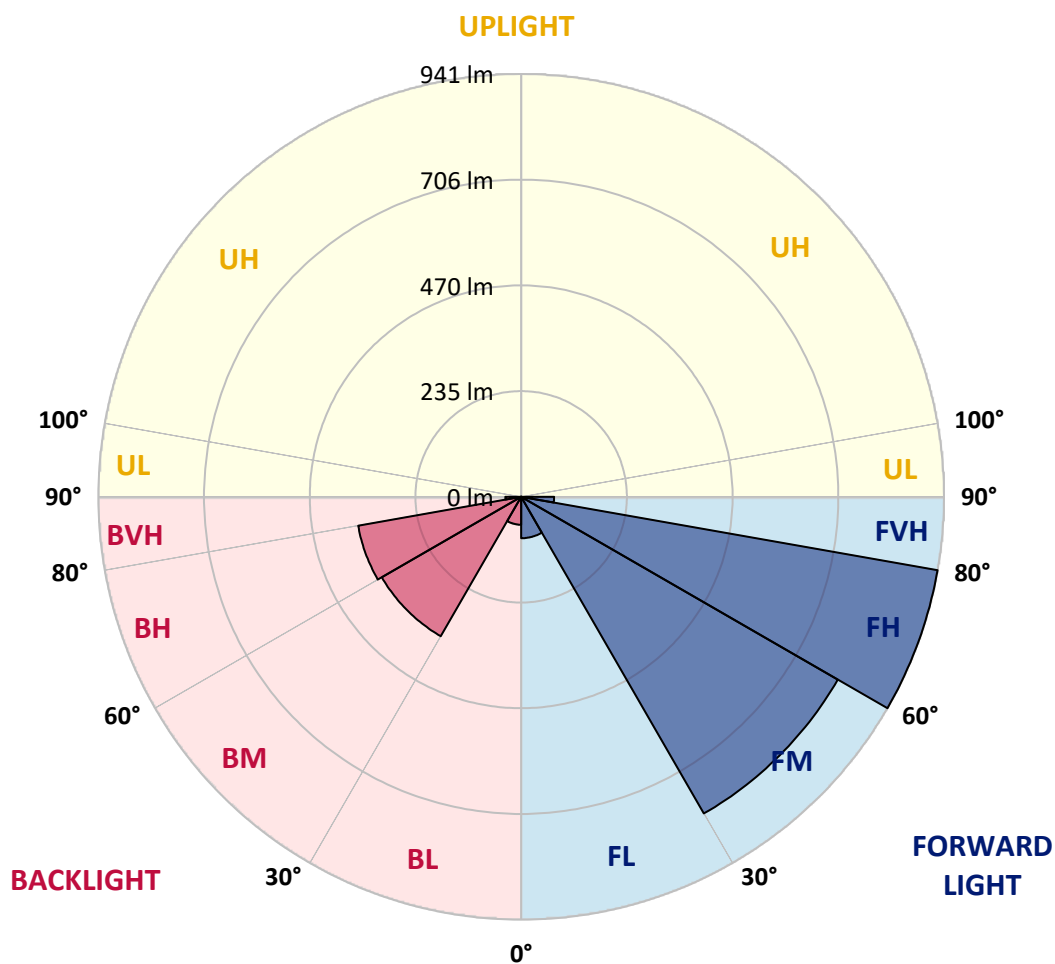
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	92.1	3.4			
FM	(30°-60°)	813.6	29.6			
FH	(60°-80°)	941.0	34.3			G1/1800
FVH	(80°-90°)	73.4	2.7			G1/100
BL	(0°-30°)	62.2	2.3	B0/110		
BM	(30°-60°)	358.1	13.0	B1/1000		
BH	(60°-80°)	368.3	13.4	B1/500		G1/500
BVH	(80°-90°)	35.3	1.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	128.8	128.8	128.8	128.8	128.8	128.8	128.8	128.8	128.8	128.8	128.8
2.5°	135.2	135.2	135.2	135.2	134.0	134.0	134.0	133.4	132.9	131.7	131.1
5°	142.1	142.7	142.1	141.5	140.4	139.8	139.2	138.6	136.9	135.2	133.4
7.5°	150.8	150.2	150.2	149.6	147.9	146.7	146.7	144.4	142.1	139.8	136.9
10°	160.0	160.6	160.6	158.9	157.7	155.4	155.4	151.9	149.0	145.6	142.1
12.5°	171.6	171.0	172.1	171.0	169.3	165.2	165.2	162.3	157.1	152.5	147.9
15°	186.0	186.0	186.6	184.3	182.5	178.5	179.7	172.1	167.5	162.3	154.8
17.5°	204.5	204.5	202.8	201.6	198.7	196.4	194.1	187.7	180.8	172.1	163.5
20°	225.3	225.9	223.0	223.0	219.5	216.6	214.9	207.4	197.0	185.4	174.5
22.5°	250.7	249.6	247.2	244.9	243.2	238.0	239.7	229.9	216.1	200.5	186.0
25°	270.9	272.7	272.7	274.4	271.5	265.7	267.5	255.3	239.2	220.7	200.5
27.5°	295.8	299.2	302.1	305.6	304.4	300.4	299.2	288.3	267.5	245.5	218.4
30°	322.9	328.1	330.4	336.8	338.5	335.1	334.5	323.5	303.3	270.4	240.9
32.5°	358.2	357.6	364.5	375.5	382.4	380.7	380.1	368.0	340.8	306.2	265.7
35°	392.2	393.4	401.5	418.2	429.2	432.7	432.1	419.4	392.2	348.9	298.7
37.5°	429.2	430.9	446.5	466.8	484.7	493.3	493.3	487.6	451.2	392.8	335.1
40°	465.6	473.7	491.6	517.6	547.6	562.1	561.5	552.3	518.8	453.5	373.2
42.5°	509.5	517.6	537.2	574.2	611.8	639.5	639.5	636.6	594.4	524.5	428.6
45°	552.8	559.8	584.0	630.8	685.7	718.1	722.1	732.5	703.0	604.8	492.8
47.5°	599.0	604.8	636.0	694.9	763.7	826.7	830.7	838.8	791.4	683.4	543.0
50°	645.3	647.6	693.2	772.4	870.0	930.1	943.3	959.5	893.7	778.1	599.6
52.5°	698.4	699.6	752.7	853.8	975.7	1063.5	1065.8	1077.4	1041.0	894.2	705.3
55°	745.2	746.9	815.1	945.1	1103.9	1188.3	1211.4	1244.9	1155.9	972.2	736.5
57.5°	788.5	795.5	889.0	1055.4	1228.1	1355.8	1351.8	1350.0	1223.5	1003.4	742.9
60°	830.7	843.4	963.0	1145.0	1319.4	1402.0	1406.6	1373.7	1241.4	1016.1	736.5
62.5°	867.1	884.4	1027.7	1218.3	1377.8	1429.2	1426.3	1379.5	1270.9	1060.6	771.2
65°	893.1	916.8	1057.1	1249.5	1373.1	1422.8	1426.9	1402.0	1296.3	1062.9	760.8
67.5°	906.4	939.9	1056.6	1228.7	1338.5	1362.2	1363.9	1318.3	1218.3	1006.3	696.1
70°	909.8	931.8	1028.3	1152.5	1218.3	1216.0	1213.1	1179.0	1083.1	897.7	618.7
72.5°	872.3	891.9	938.7	1015.0	1041.5	1035.8	1024.8	986.7	922.0	771.8	527.4
75°	789.7	796.6	798.3	819.7	820.9	822.6	809.9	785.1	739.4	623.9	421.1
77.5°	636.0	646.4	623.9	599.6	599.0	596.7	593.9	562.7	540.7	467.9	313.1
80°	463.3	458.7	440.2	412.5	394.0	388.2	384.7	376.1	362.8	320.6	217.8
82.5°	279.6	284.8	265.7	246.1	236.3	226.4	231.6	222.4	215.5	195.8	133.4
85°	125.4	125.4	121.3	116.1	108.0	108.6	109.8	106.3	101.7	91.9	64.1
87.5°	24.3	22.0	23.7	24.3	22.5	23.1	24.8	26.0	27.2	25.4	19.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	128.8	128.8	128.8	128.8	128.8	128.8	128.8	128.8	128.8	128.8	128.8
2.5°	131.1	130.6	130.0	128.8	127.7	127.1	126.5	125.9	125.9	125.4	125.4
5°	132.9	132.3	131.1	130.0	128.8	127.1	125.9	125.4	124.2	124.2	124.2
7.5°	135.8	134.6	132.3	130.6	128.8	127.1	125.9	124.8	124.2	123.0	123.0
10°	139.8	138.1	135.2	131.7	129.4	127.7	125.9	124.8	124.2	123.6	123.6
12.5°	145.6	142.7	138.1	134.6	131.1	128.8	127.1	125.9	125.4	124.8	124.8
15°	151.4	148.5	142.7	137.5	133.4	131.1	128.8	128.2	127.1	127.1	127.1
17.5°	159.4	154.8	147.9	142.1	137.5	134.0	132.3	130.6	130.6	131.1	131.1
20°	168.7	163.5	154.8	147.3	142.1	138.6	136.9	135.8	135.2	135.8	136.3
22.5°	179.7	172.1	161.2	154.2	148.5	144.4	142.7	141.5	141.0	142.1	141.5
25°	190.6	183.1	170.4	161.2	154.2	151.4	149.6	149.0	147.9	149.0	148.5
27.5°	209.1	198.7	181.4	169.3	162.9	159.4	157.1	156.0	156.0	156.0	155.4
30°	225.3	213.2	192.9	180.8	171.6	167.5	165.2	164.6	164.6	165.2	164.6
32.5°	247.8	232.8	209.1	192.9	184.3	177.9	175.6	175.0	175.0	174.5	175.0
35°	276.7	258.8	227.6	208.5	197.0	191.2	188.9	188.3	186.6	186.6	186.6
37.5°	307.9	284.2	249.6	228.8	214.3	206.8	203.3	201.0	199.9	198.7	198.7
40°	342.0	314.8	276.1	249.0	234.0	224.1	217.8	214.3	212.6	210.9	209.7
42.5°	386.5	356.4	306.7	273.8	254.8	243.8	234.5	231.1	226.4	224.7	221.2
45°	444.8	406.7	344.9	307.9	280.2	264.6	255.3	247.8	242.0	239.2	236.3
47.5°	490.4	445.4	381.8	337.4	310.2	290.0	277.3	265.2	258.2	253.0	251.9
50°	536.7	489.3	421.1	368.0	337.9	320.0	303.3	288.3	275.6	269.8	270.9
52.5°	626.2	569.0	473.7	409.6	367.4	347.2	329.9	311.4	296.9	287.7	288.3
55°	651.6	593.3	507.8	450.0	409.6	383.0	359.9	339.7	318.9	305.6	306.2
57.5°	649.9	592.1	510.7	461.0	434.4	415.3	394.0	366.2	342.0	324.7	322.3
60°	641.2	582.9	505.5	455.2	435.6	430.9	420.0	394.6	361.6	342.0	337.9
62.5°	662.6	604.8	514.7	455.2	431.5	432.1	429.8	414.2	383.0	355.8	351.2
65°	653.4	591.0	508.9	459.3	439.0	434.4	433.3	418.2	396.9	366.2	362.2
67.5°	598.5	544.2	469.7	425.7	417.1	421.1	426.9	417.1	395.7	372.6	367.4
70°	525.1	478.9	415.9	377.8	373.8	381.8	395.1	396.3	384.2	366.2	366.8
72.5°	443.1	406.1	353.0	327.0	322.3	329.9	346.6	354.7	355.3	348.9	348.3
75°	355.8	322.3	284.2	262.3	263.4	275.0	287.7	301.5	306.2	310.2	313.7
77.5°	265.2	247.2	214.9	200.5	203.3	216.1	224.1	232.8	242.6	247.2	250.7
80°	185.4	169.8	148.5	139.8	143.3	150.8	157.7	165.2	177.9	178.5	185.4
82.5°	116.1	105.7	94.7	91.9	92.4	95.3	103.4	108.0	113.8	115.5	114.4
85°	56.6	54.3	50.8	49.1	49.7	52.6	57.8	61.2	64.7	64.1	60.7
87.5°	17.9	18.5	19.1	19.6	19.6	21.4	23.1	23.1	24.3	23.7	23.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)