

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: P198188

Luminaire Tested: **TT-C2-LED-E1-DL-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34703)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C2-LED-E1-DL-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3829.1 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 41.4
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



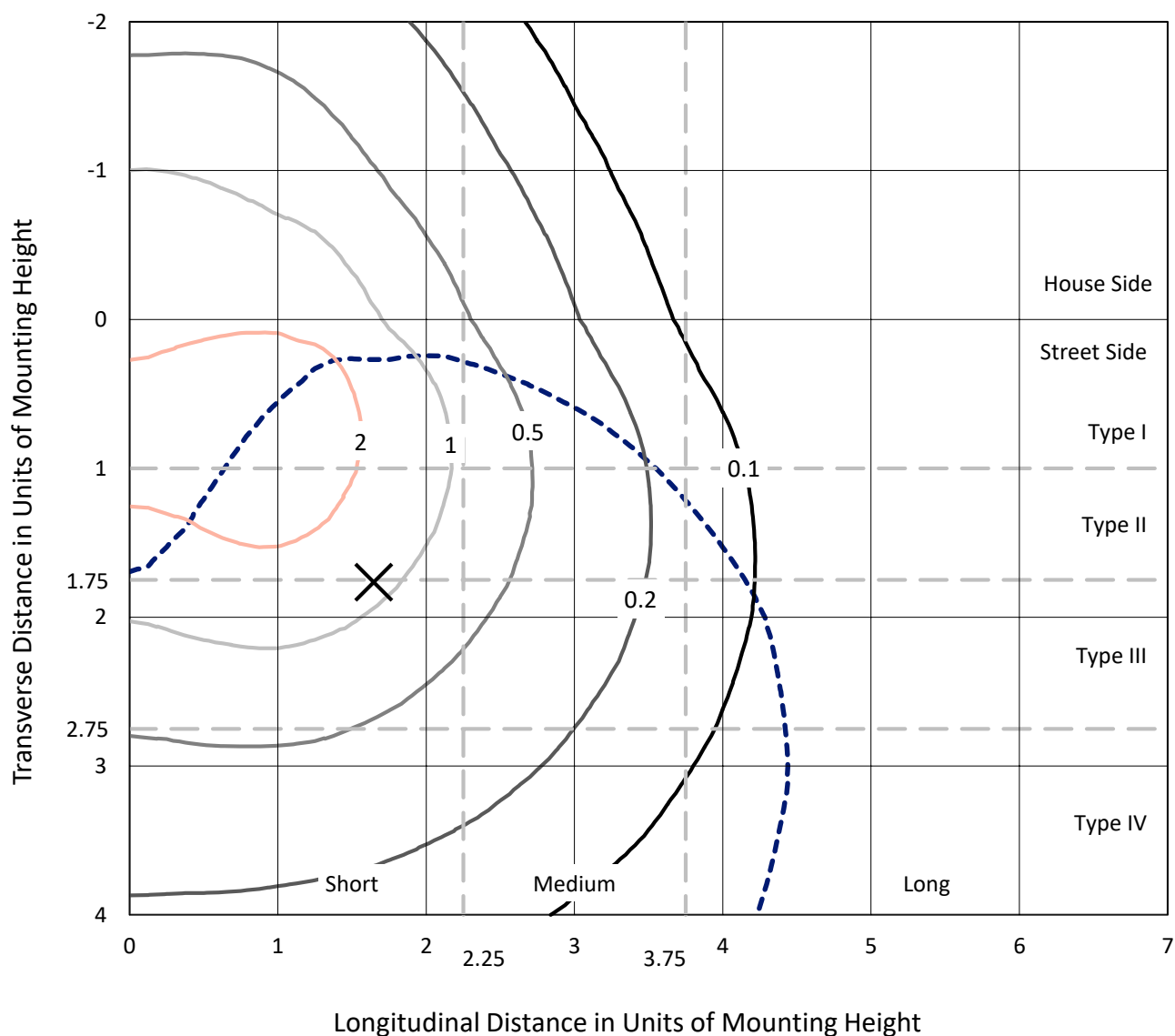
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

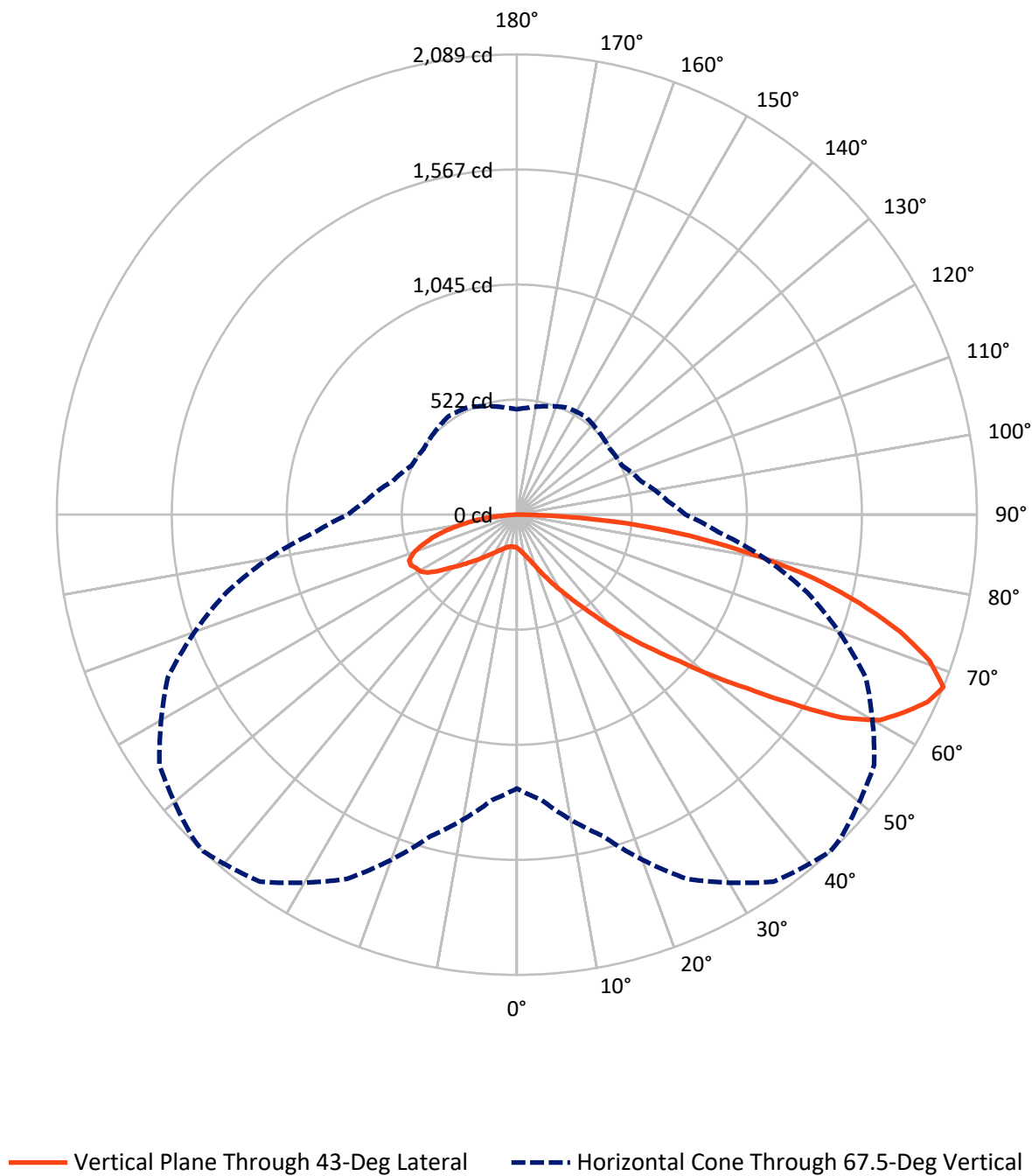


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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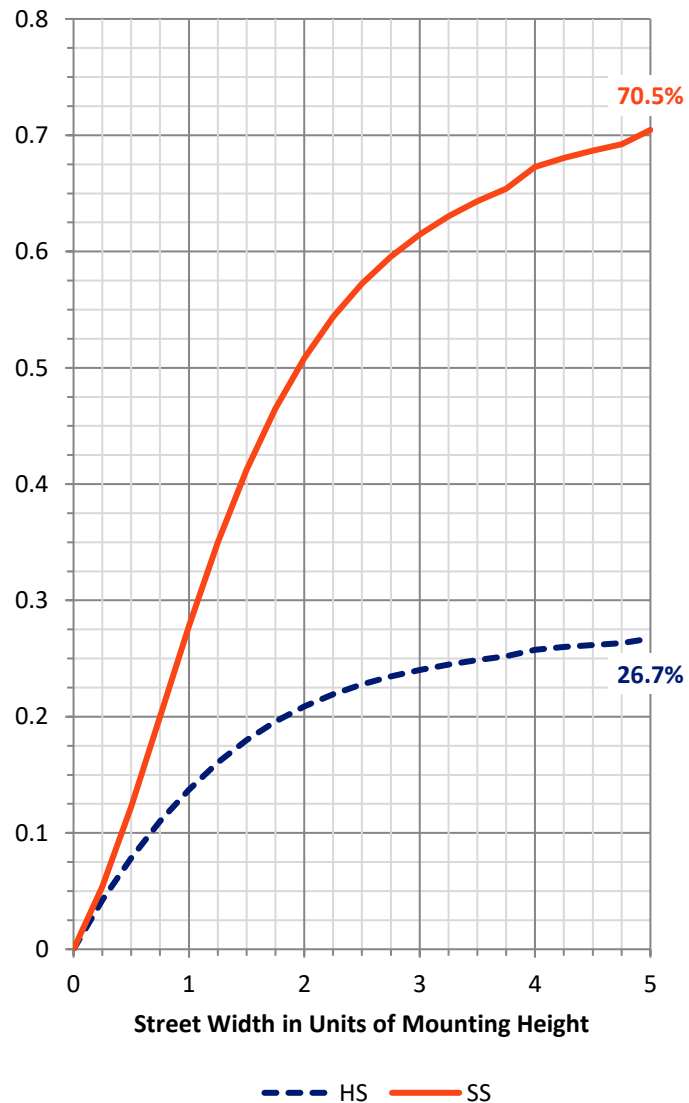
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1045.0	0.0	1045.0
	% Fixture	27.3	0.0	27.3
Street Side	Lumens	2784.1	0.0	2784.1
	% Fixture	72.7	0.0	72.7
Total	Lumens	3829.1	0.0	3829.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.1	0.4
10°-20°	52.3	1.4
20°-30°	114.2	3.0
30°-40°	226.2	5.9
40°-50°	428.2	11.2
50°-60°	760.3	19.9
60°-70°	1052.9	27.5
70°-80°	903.2	23.6
80°-90°	276.7	7.2
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°	3829.1	100.0
0°-180°	3829.1	100.0

Coefficient of Utilization



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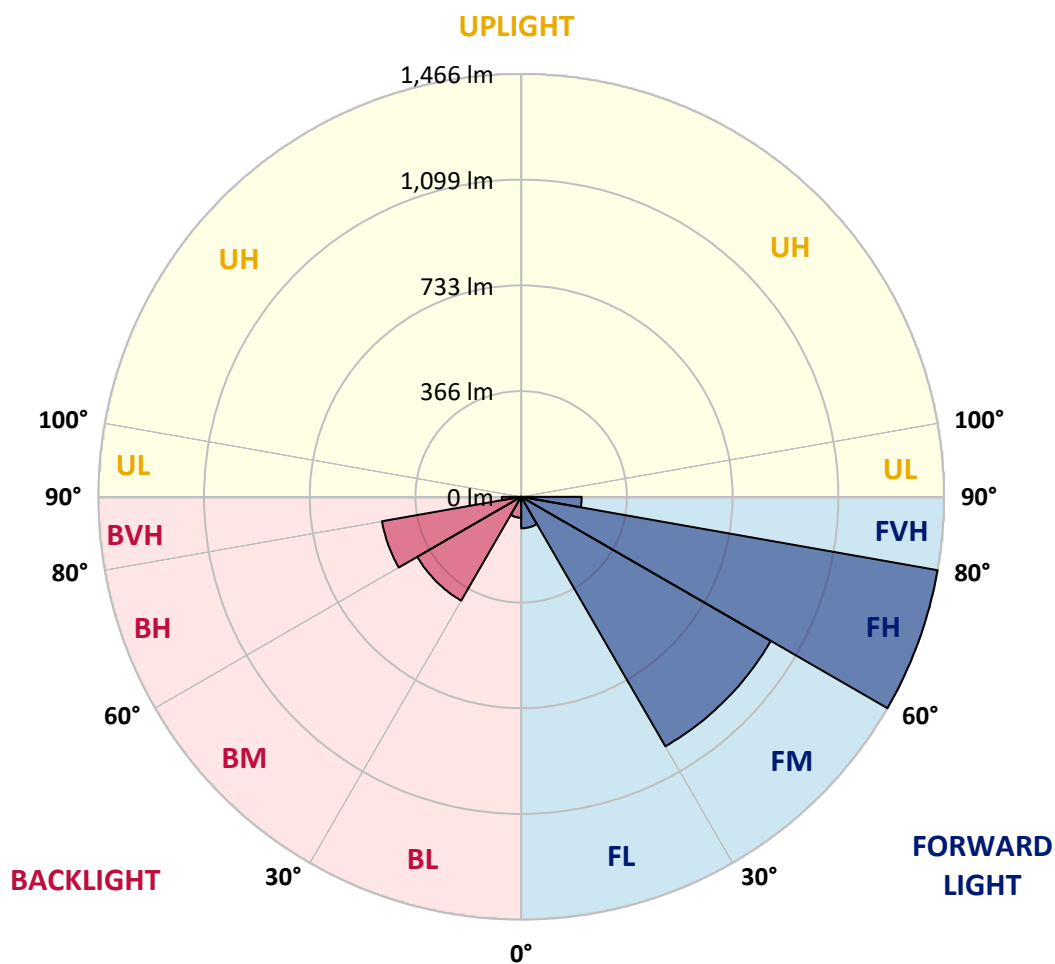
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	109.1	2.8			
FM	(30°-60°)	999.1	26.1			
FH	(60°-80°)	1466.0	38.3			G1/1800
FVH	(80°-90°)	209.9	5.5			G2/225
BL	(0°-30°)	72.5	1.9	B0/110		
BM	(30°-60°)	415.6	10.9	B1/1000		
BH	(60°-80°)	490.1	12.8	B1/500		G1/500
BVH	(80°-90°)	66.8	1.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	149.5	149.5	149.5	149.5	149.5	149.5	149.5	149.5	149.5	149.5	149.5
2.5°	157.9	157.2	157.2	157.2	156.5	155.8	155.8	155.1	154.4	153.7	152.3
5°	166.2	164.8	164.8	164.8	164.1	163.4	162.7	161.4	159.3	157.2	155.8
7.5°	176.0	176.7	176.7	174.6	173.2	171.8	171.1	168.3	165.5	162.0	159.3
10°	187.8	188.5	188.5	187.1	184.3	182.9	181.5	178.7	173.9	169.0	164.8
12.5°	201.0	202.4	203.1	201.0	197.5	194.7	195.4	190.6	184.3	178.0	171.8
15°	220.5	219.8	221.9	217.7	214.2	210.7	210.0	203.1	196.8	188.5	180.8
17.5°	244.1	241.3	241.3	239.2	237.2	231.6	228.8	221.9	211.4	201.7	189.9
20°	268.5	267.8	266.4	265.0	260.8	254.5	255.2	244.1	231.6	217.7	203.1
22.5°	297.0	299.8	295.6	295.6	292.1	287.2	285.1	270.5	253.9	234.4	217.7
25°	327.6	328.3	328.3	329.7	329.0	320.6	316.4	303.2	283.8	258.0	233.7
27.5°	358.9	361.7	361.0	364.4	366.5	361.0	357.5	342.2	314.4	285.8	255.2
30°	393.6	395.7	399.2	407.6	409.6	404.1	401.3	383.2	355.4	315.1	276.8
32.5°	433.3	436.1	439.5	455.5	463.2	456.9	452.8	436.8	402.0	357.5	308.8
35°	477.1	477.1	488.9	508.4	520.2	516.1	517.4	500.7	463.2	407.6	347.7
37.5°	525.8	525.8	541.1	565.4	588.4	589.8	597.4	577.9	532.0	460.4	386.0
40°	568.9	577.9	600.9	632.2	668.4	680.2	683.7	664.2	607.9	523.0	428.4
42.5°	619.0	629.4	657.9	704.5	750.4	776.2	777.6	758.8	700.4	602.3	489.6
45°	669.8	683.0	717.7	776.9	847.1	877.7	878.4	879.1	825.5	696.9	561.3
47.5°	727.5	737.9	783.8	854.1	943.8	993.8	1010.5	1012.6	939.6	794.9	623.9
50°	790.1	793.5	856.8	956.3	1077.3	1146.9	1156.6	1163.5	1060.6	906.2	689.9
52.5°	854.8	859.6	933.3	1071.0	1223.4	1309.6	1326.3	1329.1	1246.3	1067.6	817.9
55°	921.5	925.7	1021.0	1208.1	1397.2	1510.6	1540.5	1559.3	1429.2	1171.2	869.4
57.5°	989.7	1000.1	1127.4	1350.6	1589.2	1739.4	1760.3	1731.8	1532.8	1224.1	884.0
60°	1057.8	1076.6	1242.8	1509.9	1778.4	1894.5	1900.1	1820.8	1582.9	1253.3	889.5
62.5°	1121.8	1153.1	1363.8	1657.3	1904.2	1974.5	1974.5	1869.5	1654.6	1347.9	953.5
65°	1186.5	1224.1	1455.0	1762.4	1973.1	2050.3	2059.3	2000.2	1778.4	1405.6	972.3
67.5°	1242.8	1300.6	1510.6	1823.6	2034.3	2089.2	2078.8	1981.4	1748.5	1365.2	920.1
70°	1305.4	1345.1	1550.2	1822.2	1979.4	1988.4	1982.8	1877.8	1653.9	1290.1	853.4
72.5°	1330.5	1362.5	1523.1	1727.6	1822.9	1821.5	1811.7	1719.2	1507.1	1173.3	761.6
75°	1304.7	1302.6	1397.9	1534.9	1608.7	1609.4	1601.7	1523.1	1317.9	1007.8	644.7
77.5°	1164.9	1160.8	1202.5	1286.0	1365.2	1372.2	1359.0	1271.3	1097.5	834.6	539.0
80°	940.3	922.9	954.2	1022.4	1083.6	1077.3	1088.4	992.5	852.7	644.0	407.6
82.5°	636.4	641.9	680.9	721.9	788.0	793.5	781.7	728.9	616.9	467.4	286.5
85°	329.0	336.6	386.0	450.0	472.9	499.4	496.6	459.7	372.8	271.2	170.4
87.5°	57.7	50.1	70.2	106.4	129.4	154.4	153.7	109.9	86.2	58.4	36.2
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°	149.5	149.5	149.5	149.5	149.5	149.5	149.5	149.5	149.5	149.5	149.5
2.5°	152.3	151.6	150.9	149.5	148.1	147.4	146.7	146.1	146.1	145.4	145.4
5°	155.1	153.7	152.3	150.2	148.8	147.4	146.1	145.4	144.7	144.0	144.0
7.5°	157.9	156.5	153.7	150.9	148.1	146.7	146.1	144.7	144.0	143.3	143.3
10°	162.7	160.7	156.5	152.3	149.5	147.4	145.4	144.7	144.0	144.0	143.3
12.5°	168.3	164.8	160.0	155.1	150.9	148.1	146.7	146.1	145.4	145.4	144.7
15°	176.7	173.2	165.5	158.6	155.1	151.6	149.5	148.8	148.1	148.8	148.1
17.5°	185.0	180.8	171.1	164.1	158.6	155.8	153.7	153.0	152.3	153.7	153.7
20°	196.1	189.9	179.4	170.4	164.1	160.7	160.0	158.6	159.3	160.0	160.0
22.5°	208.0	200.3	187.8	177.3	171.8	167.6	166.9	166.9	166.9	167.6	168.3
25°	222.6	212.8	196.8	186.4	179.4	176.0	175.3	175.3	176.0	176.7	176.7
27.5°	240.6	228.1	208.6	195.4	187.8	184.3	183.6	184.3	185.7	186.4	186.4
30°	261.5	246.9	221.9	208.0	198.9	194.7	194.7	195.4	196.8	198.2	196.1
32.5°	286.5	267.8	239.9	221.2	211.4	207.3	207.3	208.6	208.0	208.6	210.7
35°	318.5	296.3	261.5	239.2	226.7	221.9	221.9	222.6	222.6	223.9	224.6
37.5°	352.6	325.5	284.5	260.1	246.2	239.2	237.2	237.9	239.2	238.6	239.9
40°	390.2	357.5	311.6	281.0	266.4	258.7	254.5	254.5	253.9	253.2	252.5
42.5°	440.2	402.0	345.0	307.4	289.3	281.0	274.0	271.9	270.5	271.2	266.4
45°	503.5	459.0	387.4	346.4	316.4	303.2	296.3	292.1	288.6	285.8	283.1
47.5°	557.1	500.7	426.3	379.7	348.4	332.4	321.3	314.4	307.4	304.6	304.6
50°	614.8	557.8	471.5	411.0	383.2	363.7	351.9	339.4	329.7	323.4	326.9
52.5°	726.8	654.5	539.7	470.8	419.4	397.8	383.9	367.2	354.0	345.7	346.4
55°	759.5	683.7	576.6	510.5	466.0	445.1	423.6	401.3	381.1	369.3	370.0
57.5°	764.3	687.1	583.5	525.8	500.1	486.1	467.4	438.2	412.4	393.6	391.6
60°	760.9	685.1	582.8	524.4	505.6	508.4	502.8	477.8	443.0	420.1	417.3
62.5°	811.6	723.3	612.7	536.2	511.9	516.1	523.0	508.4	474.3	443.0	438.2
65°	815.8	730.3	616.9	551.5	532.7	532.7	536.9	525.8	498.0	466.0	458.3
67.5°	766.4	689.9	584.2	527.2	517.4	528.6	543.2	536.2	509.1	486.1	478.5
70°	711.5	636.4	541.8	487.5	482.7	498.0	521.6	527.9	515.4	496.6	493.8
72.5°	625.2	568.2	479.9	437.5	436.1	451.4	475.7	493.1	496.6	497.3	495.9
75°	539.0	480.6	408.9	377.0	379.7	396.4	418.0	436.8	455.5	470.8	477.1
77.5°	441.6	398.5	341.5	310.9	316.4	335.2	352.6	371.4	390.9	417.3	420.8
80°	338.7	309.5	258.0	244.8	244.1	259.4	280.3	291.4	319.2	340.8	338.7
82.5°	239.2	216.3	187.1	175.3	178.0	188.5	201.7	209.3	229.5	241.3	244.8
85°	141.2	131.4	114.8	103.6	106.4	116.8	118.9	128.7	133.5	141.2	139.1
87.5°	29.9	25.7	23.0	23.6	20.9	21.6	24.3	23.6	23.6	27.8	26.4
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)