

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: P198171

Luminaire Tested: **TT-C1-LED-E1-DL-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34704)
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-MS/DIM-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3055 lumens
Efficiency: N/A
Efficacy: 91.2 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): 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



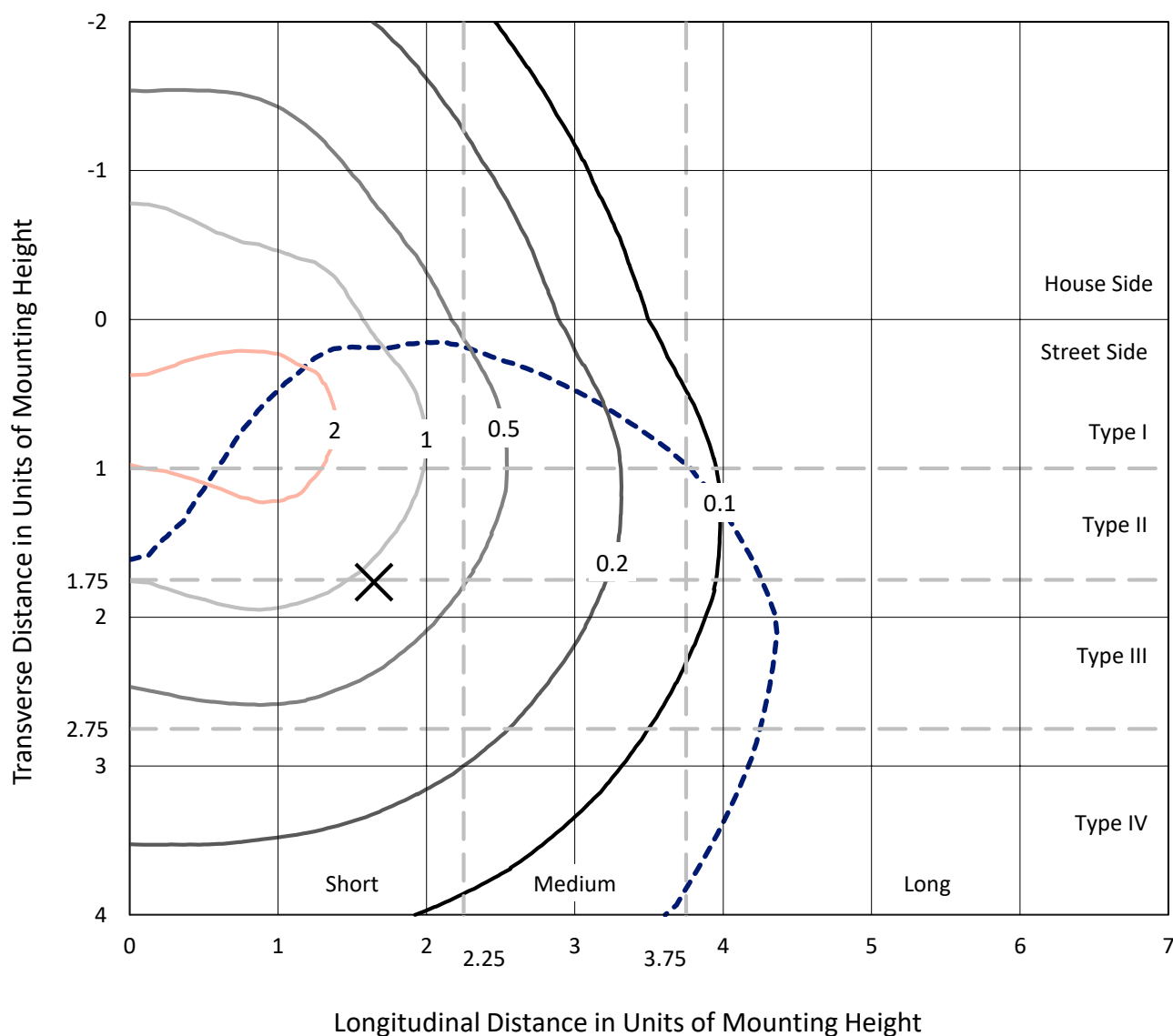
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

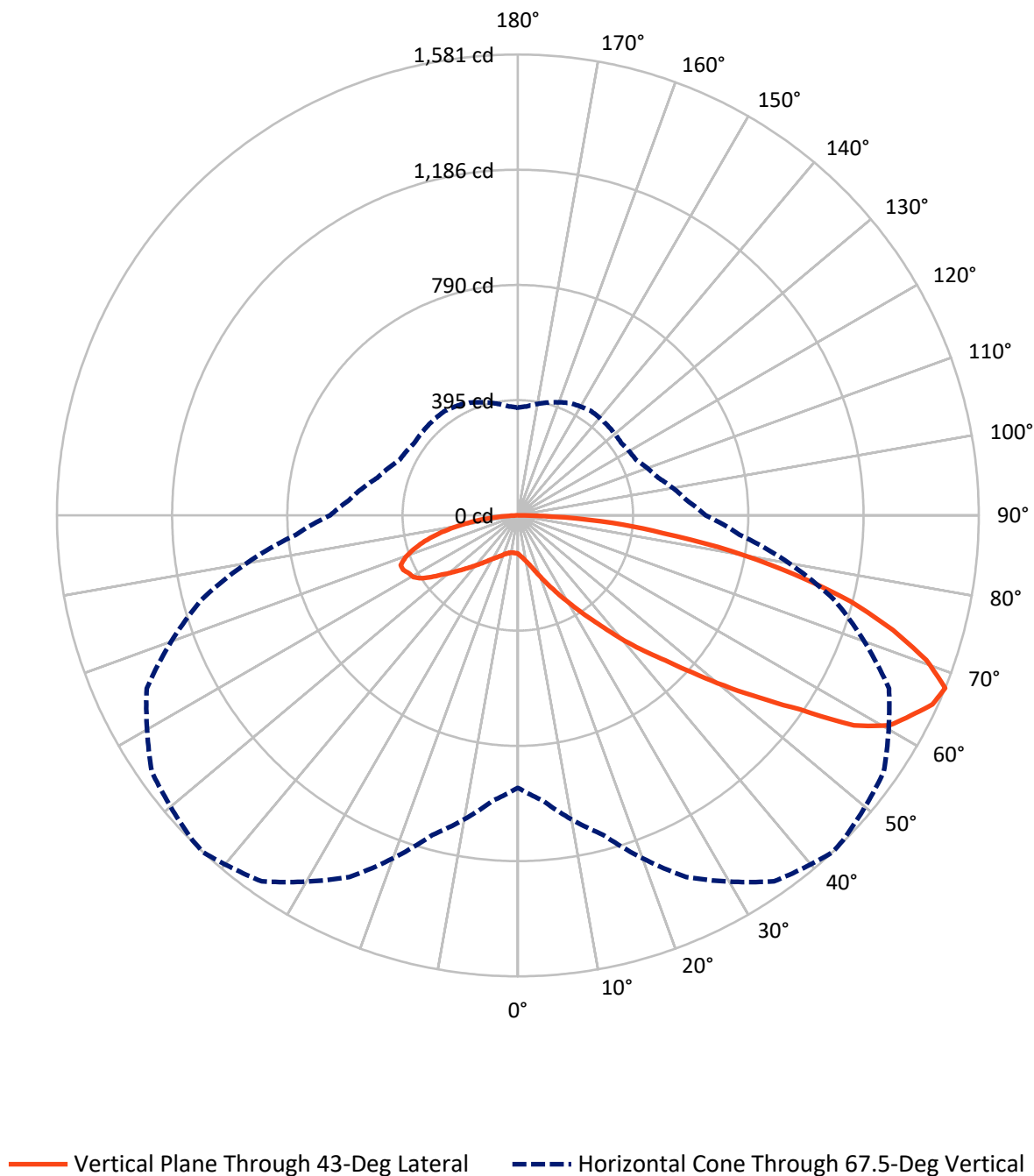


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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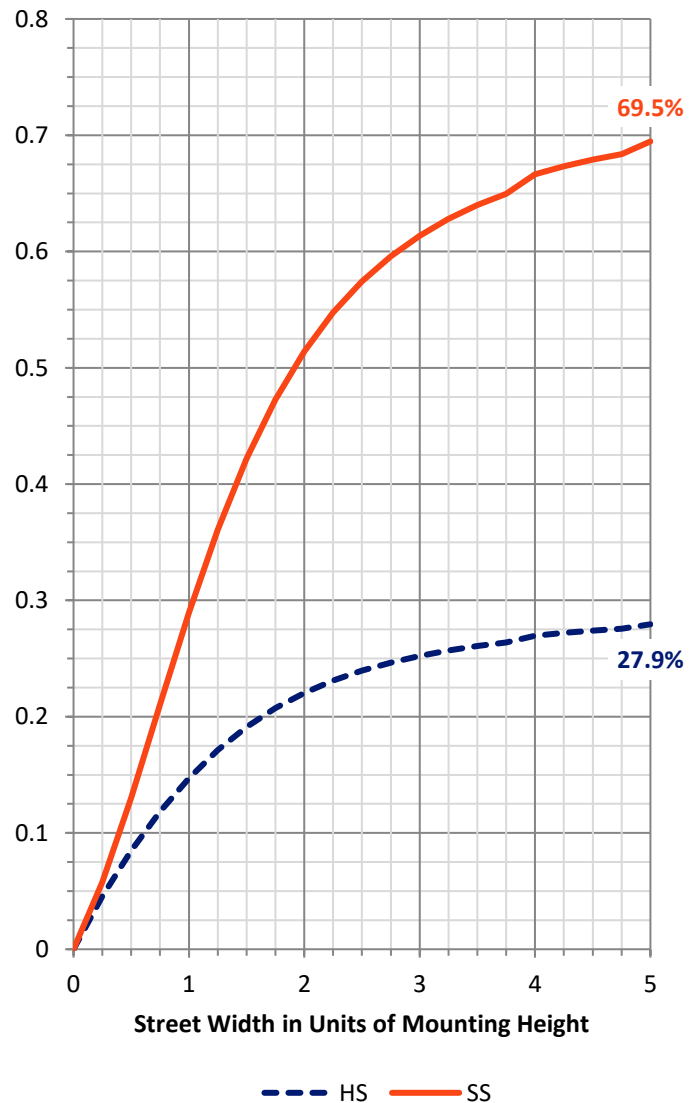
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	872.1	0.0	872.1
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	2182.9	0.0	2182.9
	% Fixture	71.5	0.0	71.5
Total	Lumens	3055.0	0.0	3055.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.3	0.4
10°-20°	46.3	1.5
20°-30°	100.3	3.3
30°-40°	193.7	6.3
40°-50°	355.5	11.6
50°-60°	614.1	20.1
60°-70°	830.4	27.2
70°-80°	695.4	22.8
80°-90°	206.1	6.7
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°	3055.0	100.0
0°-180°	3055.0	100.0

Coefficient of Utilization



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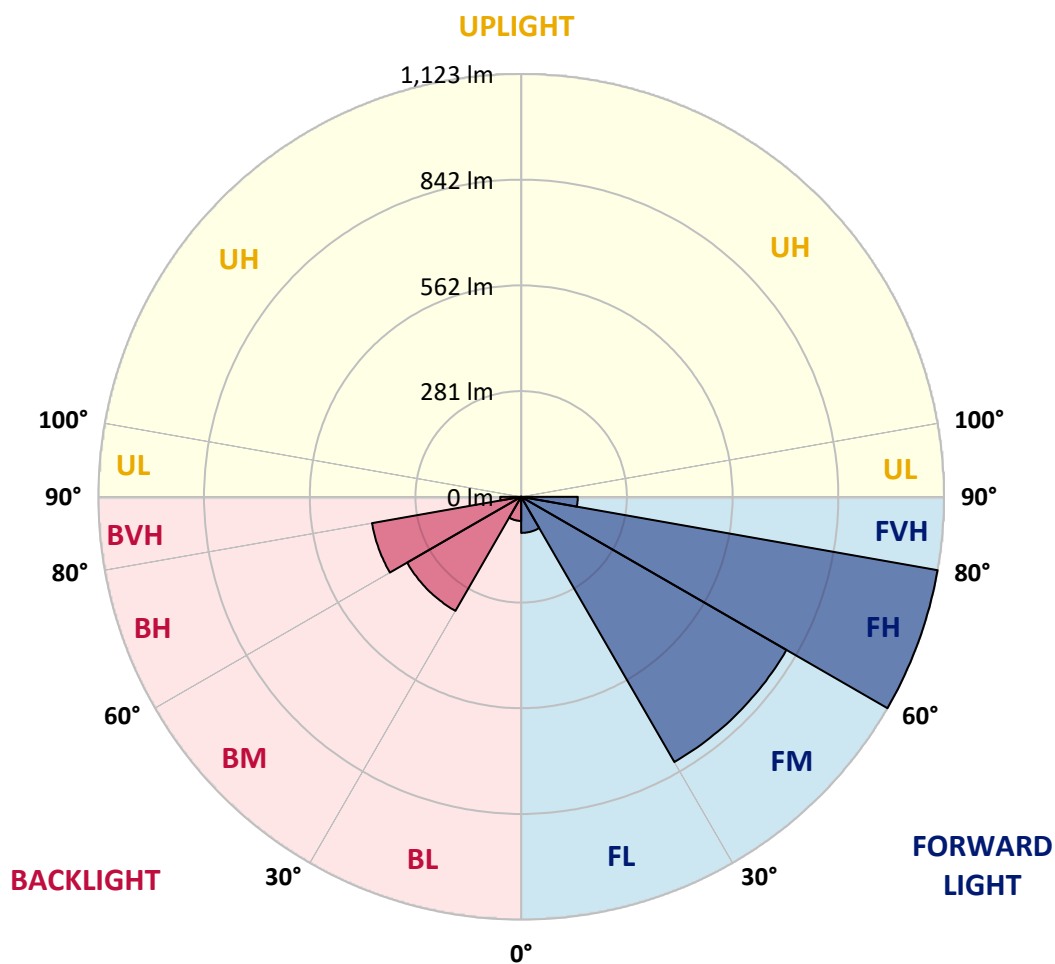
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	95.9	3.1			
FM	(30°-60°)	813.5	26.6			
FH	(60°-80°)	1123.2	36.8			G1/1800
FVH	(80°-90°)	150.3	4.9			G2/225
BL	(0°-30°)	63.9	2.1	B0/110		
BM	(30°-60°)	349.8	11.5	B1/1000		
BH	(60°-80°)	402.5	13.2	B1/500		G1/500
BVH	(80°-90°)	55.8	1.8			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°	131.5	131.5	131.5	131.5	131.5	131.5	131.5	131.5	131.5	131.5	131.5
2.5°	139.1	139.1	138.5	138.5	138.0	137.4	136.8	136.8	135.6	135.0	134.5
5°	146.7	146.7	146.7	145.5	144.4	143.8	143.8	142.0	140.3	138.5	136.8
7.5°	156.0	155.4	155.4	154.2	152.5	150.8	150.2	149.0	146.1	143.8	140.3
10°	166.5	166.5	166.5	164.1	162.4	160.7	159.5	157.2	153.7	149.6	146.1
12.5°	179.3	179.3	179.9	176.9	175.2	171.7	171.1	167.6	163.0	157.2	151.9
15°	193.8	196.2	194.4	194.4	188.6	186.8	185.7	181.6	175.2	167.6	160.7
17.5°	214.8	214.2	211.9	212.5	208.4	205.5	202.6	195.6	188.6	178.1	168.8
20°	238.6	237.5	234.6	233.4	231.1	225.8	224.7	215.4	204.3	193.2	181.0
22.5°	261.9	262.5	261.3	259.0	256.7	252.6	250.3	240.4	224.7	210.1	192.1
25°	285.2	287.5	287.5	289.3	285.2	280.0	278.2	266.6	249.1	227.0	207.8
27.5°	314.3	314.9	316.6	319.0	317.8	313.2	309.7	296.9	275.3	250.9	225.3
30°	343.4	345.7	346.9	351.6	352.7	349.2	345.7	331.2	309.1	277.1	244.5
32.5°	374.9	378.3	380.7	387.1	394.6	392.3	391.2	374.3	348.1	310.8	270.7
35°	410.4	410.9	418.5	433.1	439.5	440.6	437.7	426.1	394.1	349.8	299.8
37.5°	444.1	447.0	459.8	478.5	489.5	497.1	498.3	487.2	451.7	395.8	331.8
40°	481.4	483.1	504.1	523.9	553.5	565.8	562.9	551.2	512.8	448.8	369.6
42.5°	519.8	525.6	545.4	578.0	614.7	635.0	640.3	626.3	587.9	511.6	418.5
45°	557.0	566.4	587.9	630.4	685.1	709.5	714.8	721.8	685.7	590.2	483.7
47.5°	597.8	603.0	635.6	692.1	752.0	804.4	819.6	824.8	769.5	664.1	529.7
50°	640.3	641.4	686.8	763.7	857.4	917.9	919.1	945.9	875.4	757.9	586.1
52.5°	685.7	686.8	740.4	839.3	962.7	1038.4	1053.5	1062.3	1026.2	879.5	690.3
55°	730.5	733.4	799.8	941.8	1094.9	1174.6	1210.1	1248.0	1162.4	973.8	728.2
57.5°	777.6	783.5	880.7	1053.5	1240.4	1359.7	1377.8	1383.6	1249.7	1011.6	739.8
60°	820.7	833.5	965.1	1161.8	1363.2	1463.3	1465.7	1431.9	1282.9	1033.8	740.4
62.5°	865.5	881.8	1042.5	1265.4	1457.5	1512.2	1518.0	1463.9	1341.1	1107.7	791.6
65°	899.3	929.6	1100.7	1338.2	1494.8	1562.9	1573.3	1558.2	1432.5	1157.7	809.1
67.5°	934.2	982.0	1134.5	1368.4	1532.0	1580.9	1576.8	1532.6	1404.5	1125.1	764.8
70°	978.5	1013.4	1160.6	1358.0	1478.5	1486.0	1486.0	1431.3	1316.1	1060.0	710.7
72.5°	995.9	1023.3	1131.5	1274.2	1347.5	1345.2	1334.7	1304.4	1195.6	959.8	630.4
75°	977.3	980.8	1030.8	1117.6	1172.9	1178.7	1166.5	1124.0	1038.4	832.4	539.6
77.5°	876.6	868.4	880.1	923.2	972.1	968.0	966.2	917.9	851.6	686.8	443.0
80°	690.3	695.0	695.6	703.7	733.4	743.9	732.8	696.2	651.3	534.3	342.8
82.5°	474.4	482.0	488.9	478.5	491.3	502.9	501.2	466.2	451.7	374.9	236.9
85°	255.5	273.6	277.6	283.5	312.0	326.0	320.7	294.5	274.2	231.7	143.2
87.5°	51.8	42.5	60.5	86.1	108.8	117.6	132.1	99.5	79.2	58.2	32.6
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°	131.5	131.5	131.5	131.5	131.5	131.5	131.5	131.5	131.5	131.5	131.5
2.5°	133.9	133.3	132.7	131.5	130.4	129.8	129.2	128.6	128.6	128.6	128.6
5°	136.2	135.6	133.9	132.7	131.0	129.8	128.6	128.1	126.9	126.3	126.9
7.5°	139.1	138.0	135.0	132.7	131.0	129.2	128.1	127.5	126.9	125.7	125.7
10°	143.8	142.0	138.0	134.5	132.1	129.8	128.1	127.5	126.9	126.3	126.3
12.5°	150.2	146.7	142.0	138.0	133.9	131.0	129.8	128.6	128.1	128.1	128.1
15°	156.6	153.7	147.3	140.9	136.8	134.5	132.7	131.0	131.0	131.0	131.0
17.5°	165.3	160.1	152.5	145.5	140.9	137.4	136.2	135.0	135.0	135.6	135.6
20°	174.6	168.8	159.5	151.9	146.1	142.0	140.9	140.3	140.3	140.9	140.9
22.5°	185.1	178.1	166.5	157.7	151.9	149.0	146.7	146.7	146.7	147.3	147.8
25°	199.1	189.2	175.2	165.3	158.3	154.8	153.7	153.7	153.7	154.8	154.8
27.5°	213.6	203.1	185.1	172.9	165.9	162.4	160.7	161.2	161.8	162.4	162.4
30°	230.5	218.3	196.2	183.4	174.6	170.5	168.8	169.4	170.0	171.1	170.0
32.5°	251.5	236.3	211.3	194.4	184.5	180.4	179.3	179.9	179.9	179.9	180.4
35°	279.4	260.2	229.3	207.8	197.9	192.1	190.9	190.9	190.9	190.3	190.3
37.5°	306.8	282.3	247.4	225.8	213.0	206.1	202.6	202.6	202.6	202.6	202.6
40°	338.8	310.2	270.7	245.1	229.9	221.2	216.5	214.8	214.2	213.6	212.5
42.5°	380.1	347.5	297.4	266.0	248.0	238.6	231.7	228.2	225.8	225.3	223.5
45°	435.4	395.2	337.6	296.9	270.7	257.9	249.7	242.7	238.6	237.5	234.6
47.5°	476.1	429.6	365.5	323.6	296.3	280.0	267.8	258.4	252.6	249.7	248.0
50°	518.6	475.0	404.5	352.7	324.8	306.2	290.5	277.6	267.2	263.1	262.5
52.5°	611.8	553.5	458.1	394.1	353.9	332.9	316.6	301.5	285.2	278.2	280.0
55°	640.9	580.3	491.3	434.2	392.9	368.5	345.2	325.4	306.8	294.5	295.1
57.5°	644.4	582.7	498.3	447.6	419.7	399.9	379.5	352.2	329.5	312.6	312.0
60°	639.7	578.6	496.5	445.9	424.9	419.1	406.3	382.4	349.8	330.0	327.7
62.5°	676.4	611.2	515.1	452.3	426.1	423.7	419.7	405.7	372.5	346.9	342.8
65°	683.4	615.2	525.0	469.1	444.7	436.0	431.3	415.0	393.5	360.9	358.0
67.5°	643.8	582.7	498.3	448.2	433.1	436.0	437.1	424.9	401.0	375.4	369.6
70°	596.6	535.5	462.7	414.4	404.0	409.8	420.8	420.8	403.4	381.8	382.4
72.5°	526.2	476.7	410.4	375.4	365.0	372.5	385.3	395.2	390.6	383.0	383.6
75°	450.5	407.4	352.7	327.1	319.6	328.9	341.7	353.3	360.3	365.5	369.0
77.5°	370.8	338.8	292.8	268.3	268.3	277.1	289.3	299.8	311.4	324.8	327.1
80°	285.2	259.6	225.8	209.0	210.7	217.7	230.5	239.8	246.8	258.4	260.2
82.5°	201.4	186.3	157.7	145.5	148.4	157.7	163.6	170.0	175.2	178.1	181.6
85°	118.7	107.1	94.3	90.2	90.2	93.7	101.3	102.4	103.0	103.6	103.0
87.5°	29.7	32.6	27.9	27.4	27.4	29.7	28.5	30.8	30.8	32.0	29.7
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)