

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: P198183

Luminaire Tested: **TT-C1-LED-E1-DL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198183
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-C1-LED-E1-DL-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3204.7 lumens
Efficiency: N/A
Efficacy: 95.7 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



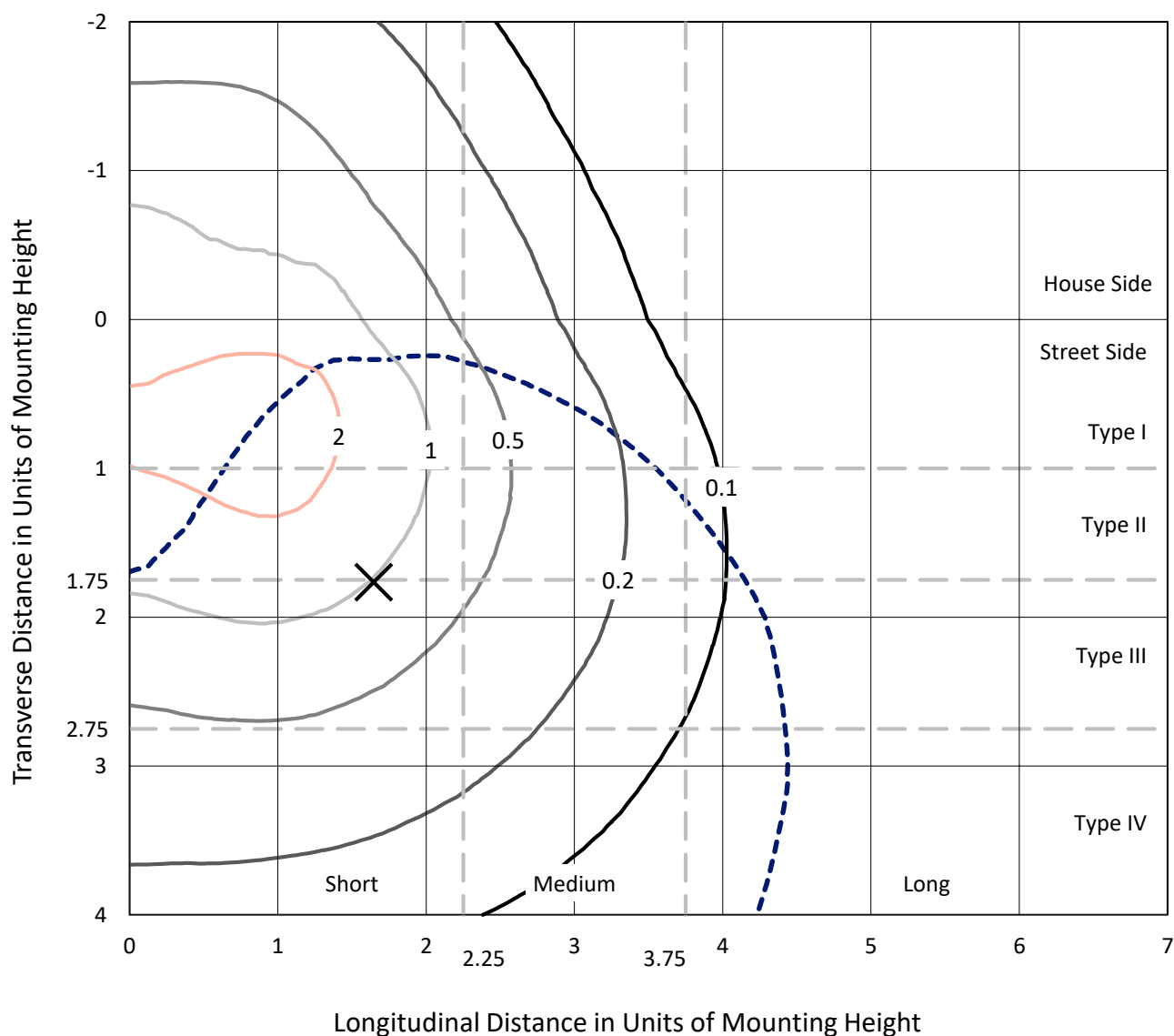
REPORT NUMBER: P198183

CATALOG NUMBER: TT-C1-LED-E1-DL-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

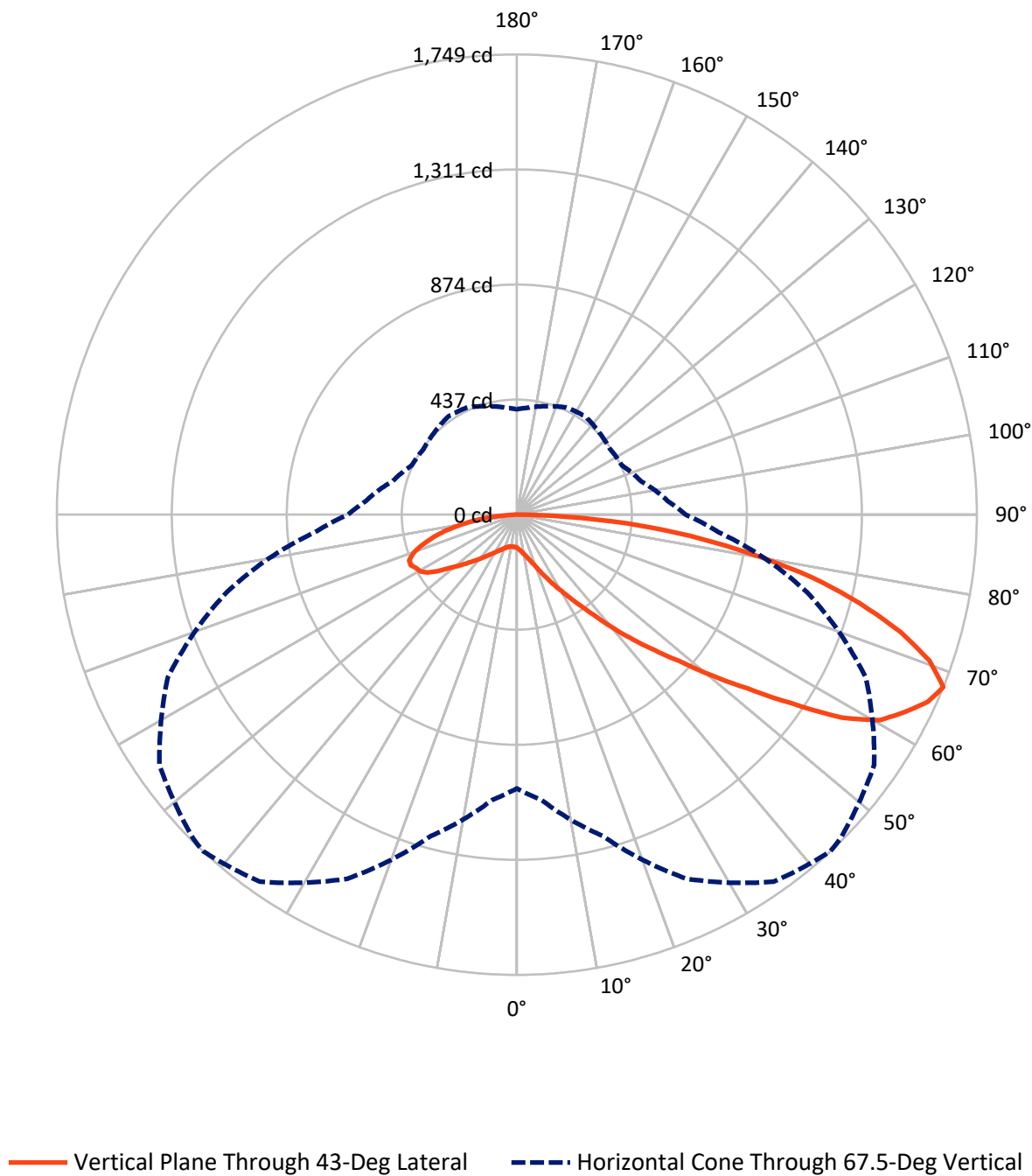


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P198183

CATALOG NUMBER: TT-C1-LED-E1-DL-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P198183

CATALOG NUMBER: TT-C1-LED-E1-DL-7050

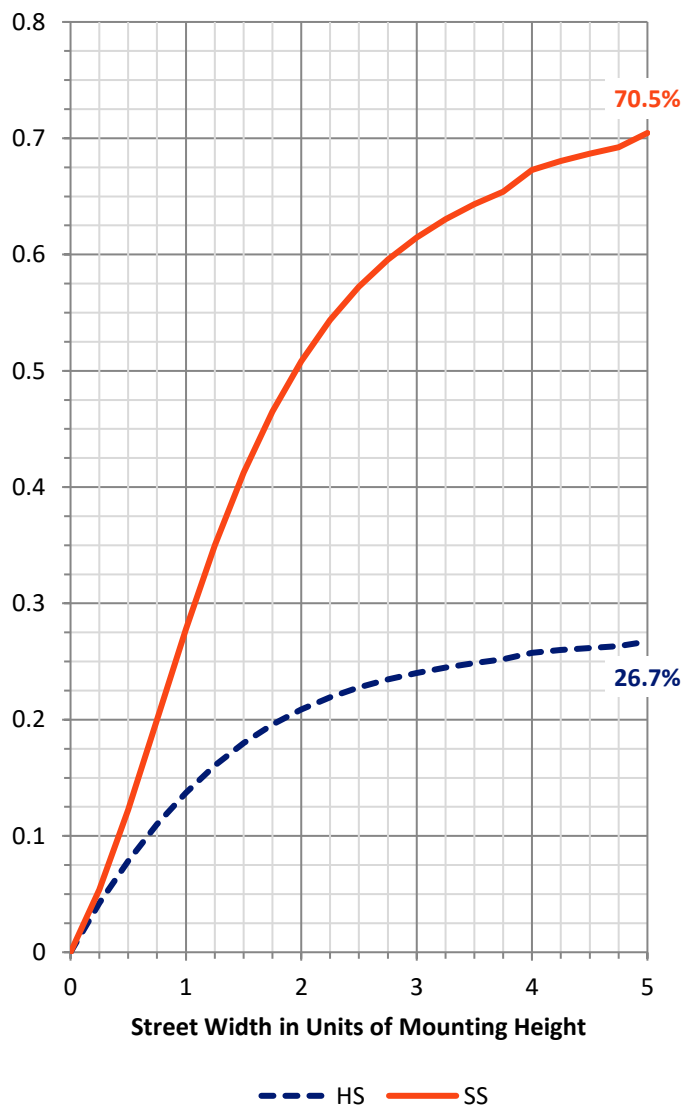
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	874.6	0.0	874.6
	% Fixture	27.3	0.0	27.3
Street Side	Lumens	2330.1	0.0	2330.1
	% Fixture	72.7	0.0	72.7
Total	Lumens	3204.7	0.0	3204.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.6	0.4
10°-20°	43.8	1.4
20°-30°	95.6	3.0
30°-40°	189.3	5.9
40°-50°	358.4	11.2
50°-60°	636.3	19.9
60°-70°	881.2	27.5
70°-80°	755.9	23.6
80°-90°	231.6	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°	3204.7	100.0
0°-180°	3204.7	100.0

Coefficient of Utilization



REPORT NUMBER: P198183

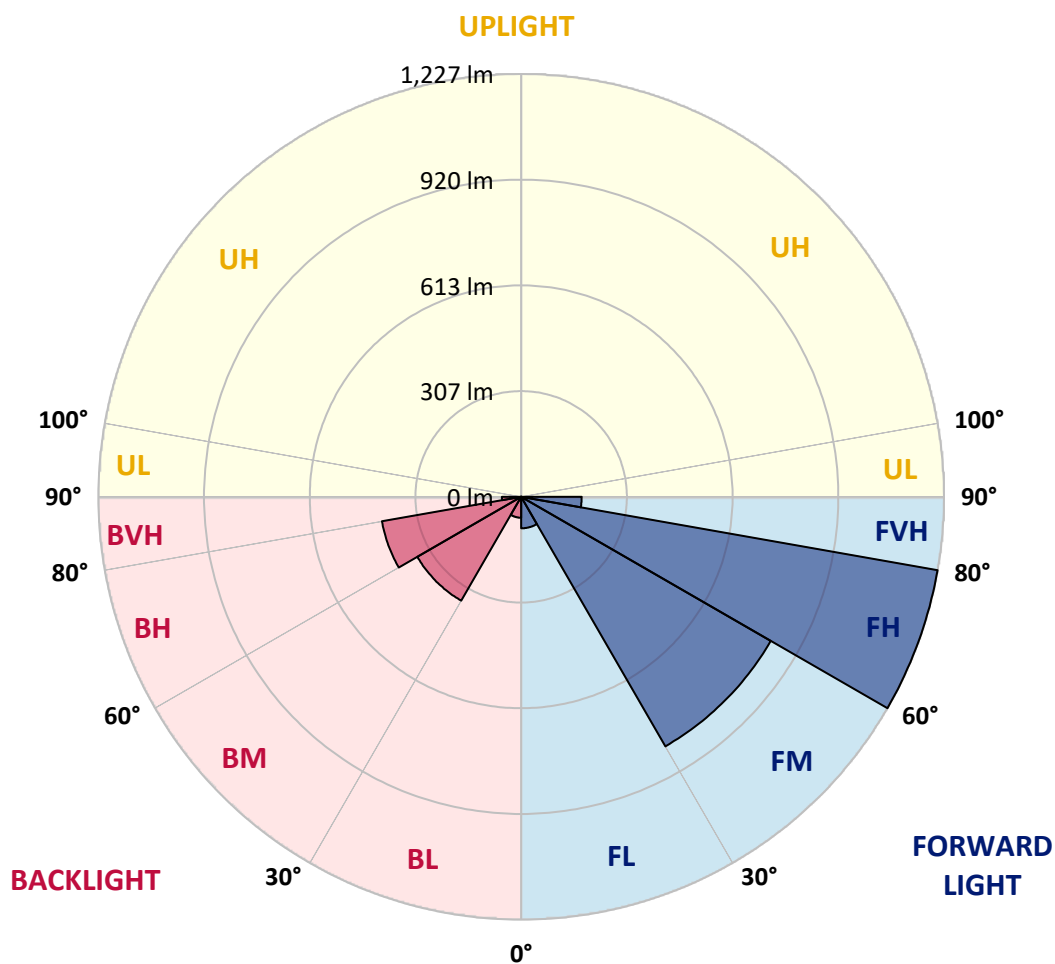
CATALOG NUMBER: TT-C1-LED-E1-DL-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	91.3	2.8			
FM	(30°-60°)	836.2	26.1			
FH	(60°-80°)	1226.9	38.3			G1/1800
FVH	(80°-90°)	175.7	5.5			G2/225
BL	(0°-30°)	60.7	1.9	B0/110		
BM	(30°-60°)	347.8	10.9	B1/1000		
BH	(60°-80°)	410.2	12.8	B1/500		G1/500
BVH	(80°-90°)	55.9	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



REPORT NUMBER: P198183

CATALOG NUMBER: TT-C1-LED-E1-DL-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	125.1	125.1	125.1	125.1	125.1	125.1	125.1	125.1	125.1	125.1	125.1
2.5°	132.1	131.5	131.5	131.5	131.0	130.4	130.4	129.8	129.2	128.6	127.5
5°	139.1	138.0	138.0	138.0	137.4	136.8	136.2	135.0	133.3	131.5	130.4
7.5°	147.3	147.8	147.8	146.1	144.9	143.8	143.2	140.9	138.5	135.6	133.3
10°	157.2	157.7	157.7	156.6	154.2	153.1	151.9	149.6	145.5	141.4	138.0
12.5°	168.2	169.4	170.0	168.2	165.3	163.0	163.6	159.5	154.2	149.0	143.8
15°	184.5	183.9	185.7	182.2	179.3	176.4	175.8	170.0	164.7	157.7	151.3
17.5°	204.3	202.0	202.0	200.2	198.5	193.8	191.5	185.7	176.9	168.8	158.9
20°	224.7	224.1	222.9	221.8	218.3	213.0	213.6	204.3	193.8	182.2	170.0
22.5°	248.5	250.9	247.4	247.4	244.5	240.4	238.6	226.4	212.5	196.2	182.2
25°	274.2	274.7	274.7	275.9	275.3	268.3	264.8	253.8	237.5	215.9	195.6
27.5°	300.3	302.7	302.1	305.0	306.8	302.1	299.2	286.4	263.1	239.2	213.6
30°	329.5	331.2	334.1	341.1	342.8	338.2	335.9	320.7	297.4	263.7	231.7
32.5°	362.6	365.0	367.9	381.3	387.7	382.4	378.9	365.5	336.4	299.2	258.4
35°	399.3	399.3	409.2	425.5	435.4	431.9	433.1	419.1	387.7	341.1	291.0
37.5°	440.0	440.0	452.9	473.2	492.4	493.6	500.0	483.7	445.3	385.3	323.0
40°	476.1	483.7	502.9	529.1	559.4	569.3	572.2	555.9	508.7	437.7	358.6
42.5°	518.0	526.8	550.6	589.6	628.1	649.6	650.8	635.0	586.1	504.1	409.8
45°	560.5	571.6	600.7	650.2	709.0	734.6	735.2	735.7	690.9	583.2	469.7
47.5°	608.8	617.6	656.0	714.8	789.9	831.8	845.7	847.5	786.4	665.3	522.1
50°	661.2	664.1	717.1	800.3	901.6	959.8	968.0	973.8	887.7	758.4	577.4
52.5°	715.4	719.4	781.1	896.4	1023.9	1096.0	1110.0	1112.3	1043.1	893.5	684.5
55°	771.2	774.7	854.5	1011.1	1169.4	1264.3	1289.3	1305.0	1196.2	980.2	727.6
57.5°	828.3	837.0	943.5	1130.4	1330.0	1455.8	1473.2	1449.4	1282.9	1024.4	739.8
60°	885.3	901.0	1040.2	1263.7	1488.4	1585.6	1590.2	1523.9	1324.8	1048.9	744.5
62.5°	938.9	965.1	1141.4	1387.1	1593.7	1652.5	1652.5	1564.6	1384.7	1128.1	798.0
65°	993.0	1024.4	1217.7	1475.0	1651.3	1715.9	1723.5	1674.0	1488.4	1176.4	813.7
67.5°	1040.2	1088.5	1264.3	1526.2	1702.6	1748.5	1739.8	1658.3	1463.3	1142.6	770.1
70°	1092.5	1125.7	1297.4	1525.0	1656.6	1664.1	1659.5	1571.6	1384.2	1079.7	714.2
72.5°	1113.5	1140.3	1274.7	1445.9	1525.6	1524.4	1516.3	1438.9	1261.3	982.0	637.4
75°	1092.0	1090.2	1170.0	1284.6	1346.3	1346.9	1340.5	1274.7	1103.0	843.4	539.6
77.5°	975.0	971.5	1006.4	1076.2	1142.6	1148.4	1137.4	1064.0	918.5	698.5	451.1
80°	787.0	772.4	798.6	855.6	906.9	901.6	910.9	830.6	713.6	539.0	341.1
82.5°	532.6	537.3	569.8	604.2	659.5	664.1	654.2	610.0	516.3	391.2	239.8
85°	275.3	281.7	323.0	376.6	395.8	417.9	415.6	384.7	312.0	227.0	142.6
87.5°	48.3	41.9	58.8	89.1	108.3	129.2	128.6	92.0	72.2	48.9	30.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P198183

CATALOG NUMBER: TT-C1-LED-E1-DL-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	125.1	125.1	125.1	125.1	125.1	125.1	125.1	125.1	125.1	125.1	125.1
2.5°	127.5	126.9	126.3	125.1	124.0	123.4	122.8	122.2	122.2	121.7	121.7
5°	129.8	128.6	127.5	125.7	124.6	123.4	122.2	121.7	121.1	120.5	120.5
7.5°	132.1	131.0	128.6	126.3	124.0	122.8	122.2	121.1	120.5	119.9	119.9
10°	136.2	134.5	131.0	127.5	125.1	123.4	121.7	121.1	120.5	120.5	119.9
12.5°	140.9	138.0	133.9	129.8	126.3	124.0	122.8	122.2	121.7	121.7	121.1
15°	147.8	144.9	138.5	132.7	129.8	126.9	125.1	124.6	124.0	124.6	124.0
17.5°	154.8	151.3	143.2	137.4	132.7	130.4	128.6	128.1	127.5	128.6	128.6
20°	164.1	158.9	150.2	142.6	137.4	134.5	133.9	132.7	133.3	133.9	133.9
22.5°	174.0	167.6	157.2	148.4	143.8	140.3	139.7	139.7	139.7	140.3	140.9
25°	186.3	178.1	164.7	156.0	150.2	147.3	146.7	146.7	147.3	147.8	147.8
27.5°	201.4	190.9	174.6	163.6	157.2	154.2	153.7	154.2	155.4	156.0	156.0
30°	218.9	206.6	185.7	174.0	166.5	163.0	163.0	163.6	164.7	165.9	164.1
32.5°	239.8	224.1	200.8	185.1	176.9	173.5	173.5	174.6	174.0	174.6	176.4
35°	266.6	248.0	218.9	200.2	189.8	185.7	185.7	186.3	186.3	187.4	188.0
37.5°	295.1	272.4	238.1	217.7	206.1	200.2	198.5	199.1	200.2	199.7	200.8
40°	326.5	299.2	260.8	235.2	222.9	216.5	213.0	213.0	212.5	211.9	211.3
42.5°	368.5	336.4	288.7	257.3	242.1	235.2	229.3	227.6	226.4	227.0	222.9
45°	421.4	384.2	324.2	289.9	264.8	253.8	248.0	244.5	241.6	239.2	236.9
47.5°	466.2	419.1	356.8	317.8	291.6	278.2	268.9	263.1	257.3	254.9	254.9
50°	514.6	466.8	394.6	344.0	320.7	304.4	294.5	284.1	275.9	270.7	273.6
52.5°	608.3	547.7	451.7	394.1	351.0	332.9	321.3	307.3	296.3	289.3	289.9
55°	635.6	572.2	482.5	427.2	390.0	372.5	354.5	335.9	319.0	309.1	309.7
57.5°	639.7	575.1	488.4	440.0	418.5	406.9	391.2	366.7	345.2	329.5	327.7
60°	636.8	573.3	487.8	438.9	423.2	425.5	420.8	399.9	370.8	351.6	349.2
62.5°	679.3	605.4	512.8	448.8	428.4	431.9	437.7	425.5	397.0	370.8	366.7
65°	682.8	611.2	516.3	461.6	445.9	445.9	449.4	440.0	416.8	390.0	383.6
67.5°	641.4	577.4	488.9	441.2	433.1	442.4	454.6	448.8	426.1	406.9	400.5
70°	595.5	532.6	453.4	408.0	404.0	416.8	436.6	441.8	431.3	415.6	413.3
72.5°	523.3	475.6	401.6	366.1	365.0	377.8	398.1	412.7	415.6	416.2	415.0
75°	451.1	402.2	342.3	315.5	317.8	331.8	349.8	365.5	381.3	394.1	399.3
77.5°	369.6	333.5	285.8	260.2	264.8	280.6	295.1	310.8	327.1	349.2	352.2
80°	283.5	259.0	215.9	204.9	204.3	217.1	234.6	243.9	267.2	285.2	283.5
82.5°	200.2	181.0	156.6	146.7	149.0	157.7	168.8	175.2	192.1	202.0	204.9
85°	118.2	110.0	96.0	86.7	89.1	97.8	99.5	107.7	111.8	118.2	116.4
87.5°	25.0	21.5	19.2	19.8	17.5	18.0	20.4	19.8	19.8	23.3	22.1
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)