

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: P198184

Luminaire Tested: **TT-C1-LED-E1-DL-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198184
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-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: 3180.5 lumens
Efficiency: N/A
Efficacy: 94.9 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



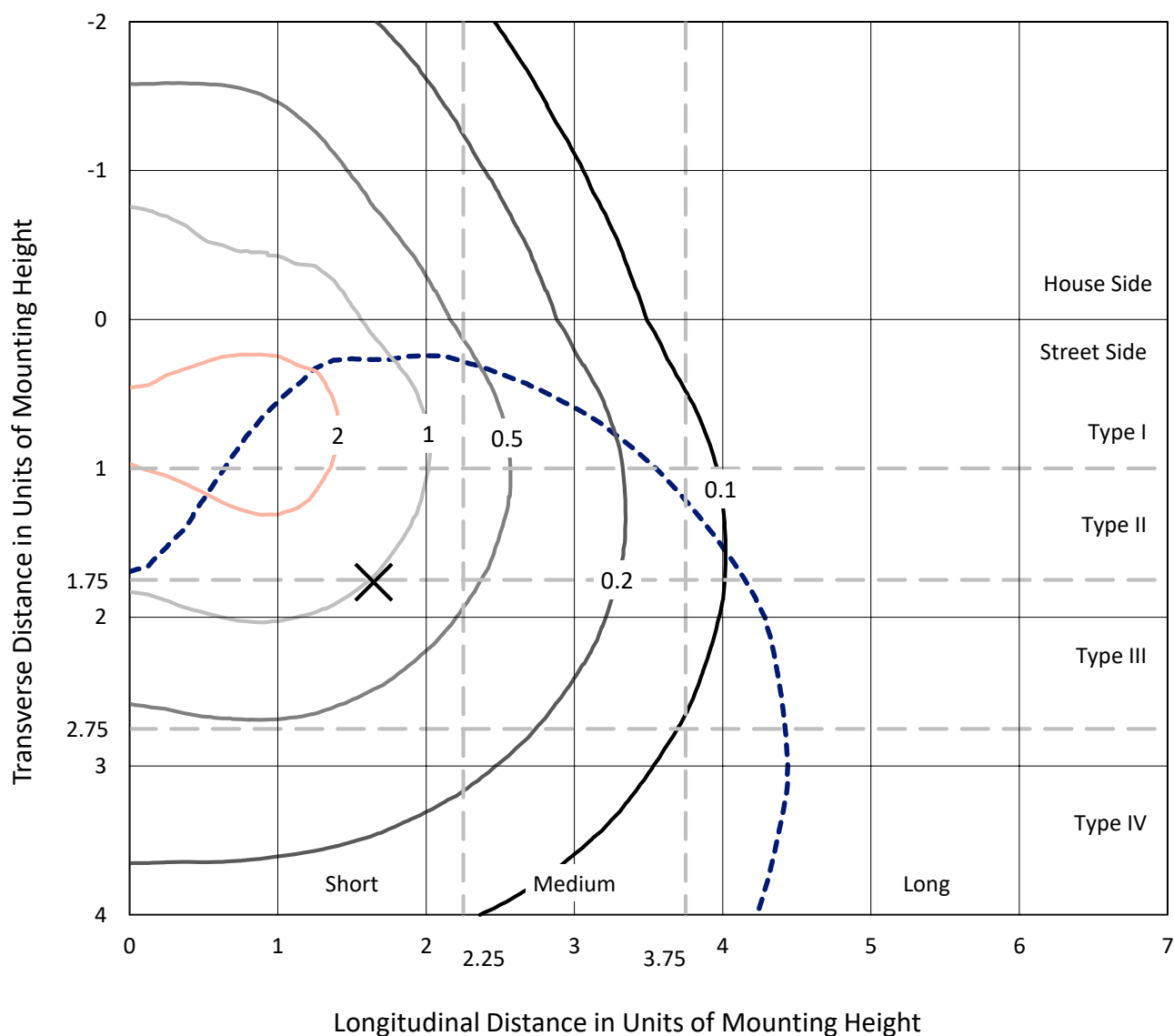
REPORT NUMBER: P198184

CATALOG NUMBER: TT-C1-LED-E1-DL-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

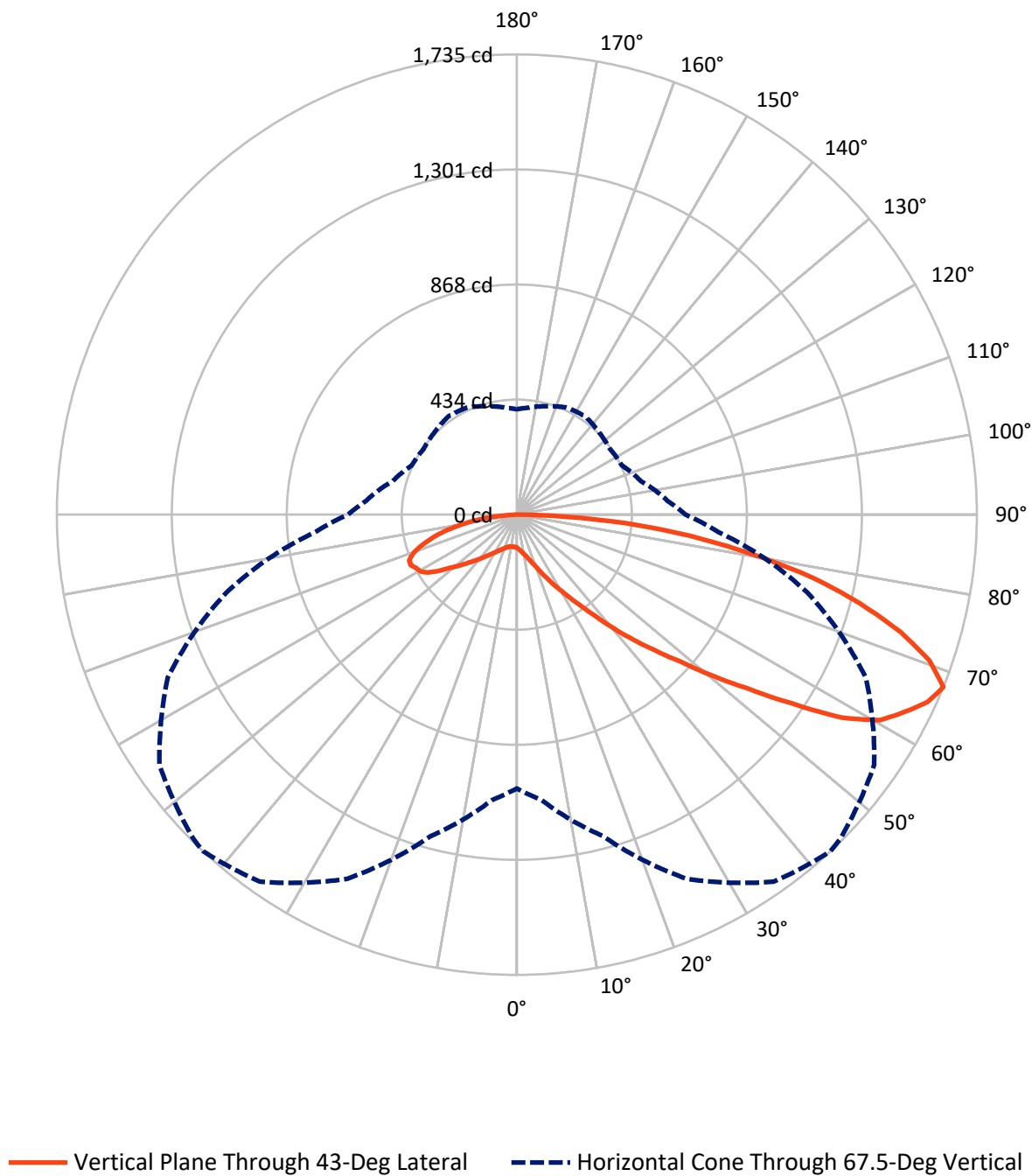


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P198184

CATALOG NUMBER: TT-C1-LED-E1-DL-7060

Luminous Intensity Polar Plot



REPORT NUMBER: P198184

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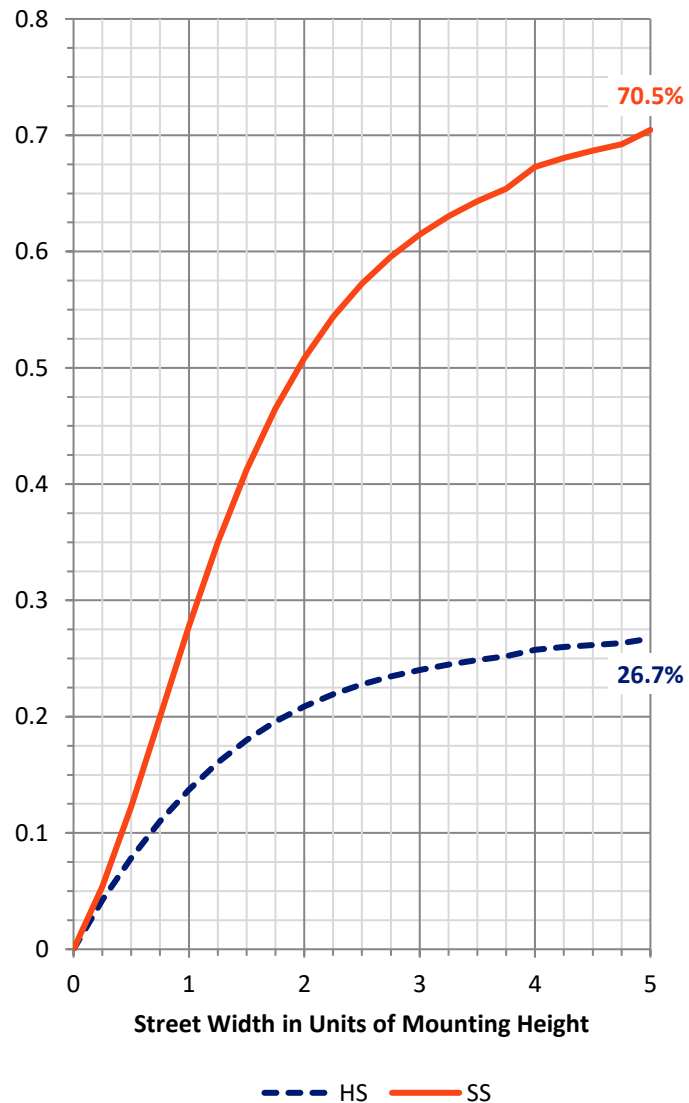
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	868.0	0.0	868.0
	% Fixture	27.3	0.0	27.3
Street Side	Lumens	2312.5	0.0	2312.5
	% Fixture	72.7	0.0	72.7
Total	Lumens	3180.5	0.0	3180.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.5	0.4
10°-20°	43.4	1.4
20°-30°	94.9	3.0
30°-40°	187.9	5.9
40°-50°	355.7	11.2
50°-60°	631.5	19.9
60°-70°	874.6	27.5
70°-80°	750.2	23.6
80°-90°	229.9	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°	3180.5	100.0
0°-180°	3180.5	100.0

Coefficient of Utilization



REPORT NUMBER: P198184

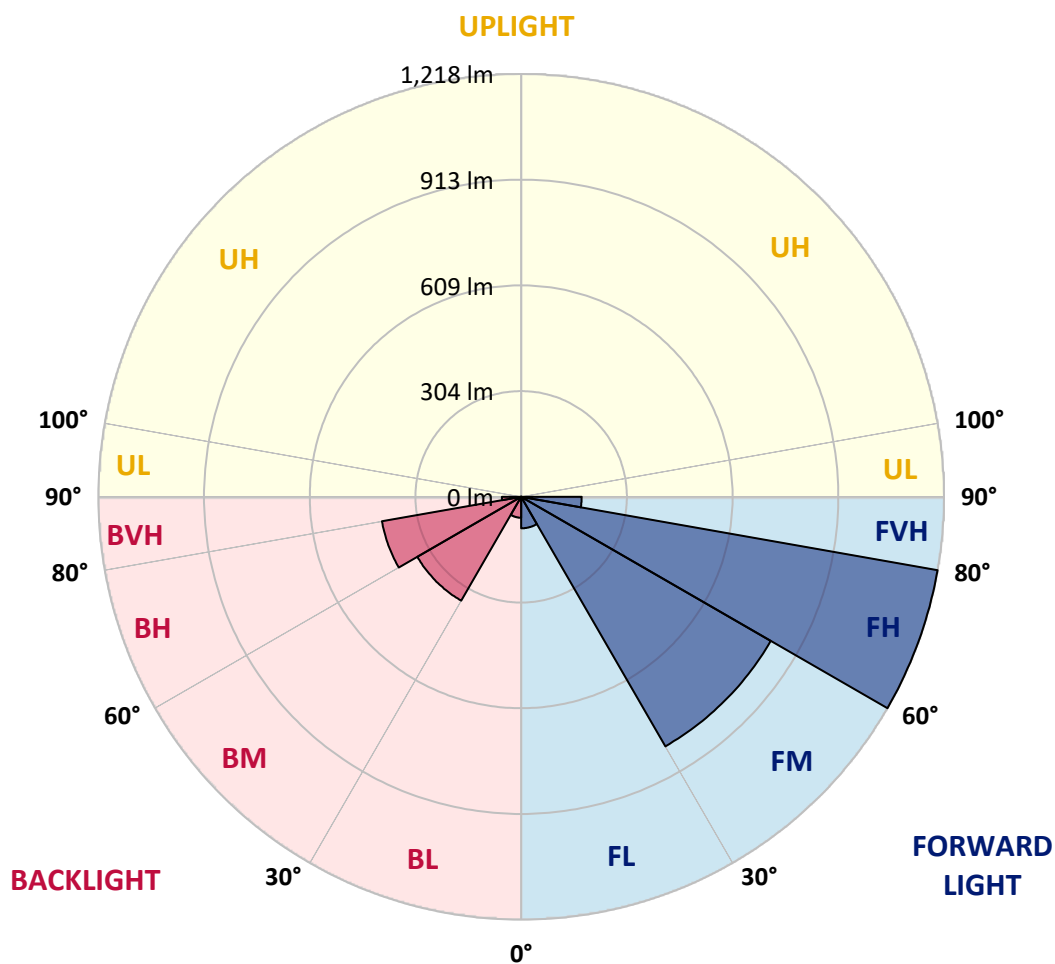
CATALOG NUMBER: TT-C1-LED-E1-DL-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	90.6	2.8			
FM	(30°-60°)	829.9	26.1			
FH	(60°-80°)	1217.6	38.3			G1/1800
FVH	(80°-90°)	174.4	5.5			G2/225
BL	(0°-30°)	60.2	1.9	B0/110		
BM	(30°-60°)	345.2	10.9	B1/1000		
BH	(60°-80°)	407.1	12.8	B1/500		G1/500
BVH	(80°-90°)	55.5	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: P198184

CATALOG NUMBER: TT-C1-LED-E1-DL-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	124.2	124.2	124.2	124.2	124.2	124.2	124.2	124.2	124.2	124.2	124.2
2.5°	131.1	130.6	130.6	130.6	130.0	129.4	129.4	128.8	128.2	127.7	126.5
5°	138.1	136.9	136.9	136.9	136.3	135.8	135.2	134.0	132.3	130.6	129.4
7.5°	146.2	146.7	146.7	145.0	143.8	142.7	142.1	139.8	137.5	134.6	132.3
10°	156.0	156.6	156.6	155.4	153.1	151.9	150.8	148.5	144.4	140.4	136.9
12.5°	166.9	168.1	168.7	166.9	164.1	161.7	162.3	158.3	153.1	147.9	142.7
15°	183.1	182.5	184.3	180.8	177.9	175.0	174.5	168.7	163.5	156.6	150.2
17.5°	202.8	200.5	200.5	198.7	197.0	192.4	190.1	184.3	175.6	167.5	157.7
20°	223.0	222.4	221.2	220.1	216.6	211.4	212.0	202.8	192.4	180.8	168.7
22.5°	246.7	249.0	245.5	245.5	242.6	238.6	236.8	224.7	210.9	194.7	180.8
25°	272.1	272.7	272.7	273.8	273.2	266.3	262.8	251.9	235.7	214.3	194.1
27.5°	298.1	300.4	299.8	302.7	304.4	299.8	296.9	284.2	261.1	237.4	212.0
30°	327.0	328.7	331.6	338.5	340.3	335.6	333.3	318.3	295.2	261.7	229.9
32.5°	359.9	362.2	365.1	378.4	384.7	379.5	376.1	362.8	333.9	296.9	256.5
35°	396.3	396.3	406.1	422.3	432.1	428.6	429.8	415.9	384.7	338.5	288.8
37.5°	436.7	436.7	449.4	469.7	488.7	489.9	496.2	480.0	441.9	382.4	320.6
40°	472.5	480.0	499.1	525.1	555.1	565.0	567.9	551.7	504.9	434.4	355.8
42.5°	514.1	522.8	546.5	585.2	623.3	644.7	645.8	630.2	581.7	500.3	406.7
45°	556.3	567.3	596.2	645.3	703.6	729.0	729.6	730.2	685.7	578.8	466.2
47.5°	604.2	612.9	651.0	709.4	783.9	825.5	839.4	841.1	780.4	660.3	518.2
50°	656.2	659.1	711.7	794.3	894.8	952.6	960.7	966.5	881.0	752.7	573.1
52.5°	710.0	714.0	775.2	889.6	1016.1	1087.8	1101.6	1103.9	1035.2	886.7	679.3
55°	765.4	768.9	848.0	1003.4	1160.5	1254.7	1279.6	1295.1	1187.1	972.8	722.1
57.5°	822.0	830.7	936.4	1121.8	1320.0	1444.8	1462.1	1438.4	1273.2	1016.7	734.2
60°	878.6	894.2	1032.3	1254.1	1477.1	1573.6	1578.2	1512.4	1314.8	1041.0	738.8
62.5°	931.8	957.8	1132.8	1376.6	1581.7	1640.0	1640.0	1552.8	1374.3	1119.5	792.0
65°	985.5	1016.7	1208.5	1463.8	1638.9	1703.0	1710.5	1661.4	1477.1	1167.5	807.6
67.5°	1032.3	1080.3	1254.7	1514.7	1689.7	1735.3	1726.7	1645.8	1452.3	1134.0	764.3
70°	1084.3	1117.2	1287.6	1513.5	1644.1	1651.6	1647.0	1559.7	1373.7	1071.6	708.8
72.5°	1105.1	1131.7	1265.1	1434.9	1514.1	1512.9	1504.8	1428.0	1251.8	974.5	632.6
75°	1083.7	1082.0	1161.1	1274.9	1336.2	1336.7	1330.4	1265.1	1094.7	837.1	535.5
77.5°	967.6	964.1	998.8	1068.1	1134.0	1139.8	1128.8	1056.0	911.6	693.2	447.7
80°	781.0	766.6	792.6	849.2	900.0	894.8	904.1	824.3	708.2	534.9	338.5
82.5°	528.6	533.2	565.5	599.6	654.5	659.1	649.3	605.4	512.4	388.2	238.0
85°	273.2	279.6	320.6	373.8	392.8	414.8	412.5	381.8	309.6	225.3	141.5
87.5°	47.9	41.6	58.3	88.4	107.4	128.2	127.7	91.3	71.6	48.5	30.0
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: P198184

CATALOG NUMBER: TT-C1-LED-E1-DL-7060

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	124.2	124.2	124.2	124.2	124.2	124.2	124.2	124.2	124.2	124.2	124.2
2.5°	126.5	125.9	125.4	124.2	123.0	122.5	121.9	121.3	121.3	120.7	120.7
5°	128.8	127.7	126.5	124.8	123.6	122.5	121.3	120.7	120.2	119.6	119.6
7.5°	131.1	130.0	127.7	125.4	123.0	121.9	121.3	120.2	119.6	119.0	119.0
10°	135.2	133.4	130.0	126.5	124.2	122.5	120.7	120.2	119.6	119.6	119.0
12.5°	139.8	136.9	132.9	128.8	125.4	123.0	121.9	121.3	120.7	120.7	120.2
15°	146.7	143.8	137.5	131.7	128.8	125.9	124.2	123.6	123.0	123.6	123.0
17.5°	153.7	150.2	142.1	136.3	131.7	129.4	127.7	127.1	126.5	127.7	127.7
20°	162.9	157.7	149.0	141.5	136.3	133.4	132.9	131.7	132.3	132.9	132.9
22.5°	172.7	166.4	156.0	147.3	142.7	139.2	138.6	138.6	138.6	139.2	139.8
25°	184.9	176.8	163.5	154.8	149.0	146.2	145.6	145.6	146.2	146.7	146.7
27.5°	199.9	189.5	173.3	162.3	156.0	153.1	152.5	153.1	154.2	154.8	154.8
30°	217.2	205.1	184.3	172.7	165.2	161.7	161.7	162.3	163.5	164.6	162.9
32.5°	238.0	222.4	199.3	183.7	175.6	172.1	172.1	173.3	172.7	173.3	175.0
35°	264.6	246.1	217.2	198.7	188.3	184.3	184.3	184.9	184.9	186.0	186.6
37.5°	292.9	270.4	236.3	216.1	204.5	198.7	197.0	197.6	198.7	198.1	199.3
40°	324.1	296.9	258.8	233.4	221.2	214.9	211.4	211.4	210.9	210.3	209.7
42.5°	365.7	333.9	286.5	255.3	240.3	233.4	227.6	225.9	224.7	225.3	221.2
45°	418.2	381.3	321.8	287.7	262.8	251.9	246.1	242.6	239.7	237.4	235.1
47.5°	462.7	415.9	354.1	315.4	289.4	276.1	266.9	261.1	255.3	253.0	253.0
50°	510.7	463.3	391.7	341.4	318.3	302.1	292.3	281.9	273.8	268.6	271.5
52.5°	603.7	543.6	448.3	391.1	348.3	330.4	318.9	305.0	294.0	287.1	287.7
55°	630.8	567.9	478.9	424.0	387.0	369.7	351.8	333.3	316.6	306.7	307.3
57.5°	634.9	570.7	484.7	436.7	415.3	403.8	388.2	363.9	342.6	327.0	325.2
60°	632.0	569.0	484.1	435.6	420.0	422.3	417.7	396.9	368.0	348.9	346.6
62.5°	674.1	600.8	508.9	445.4	425.2	428.6	434.4	422.3	394.0	368.0	363.9
65°	677.6	606.6	512.4	458.1	442.5	442.5	446.0	436.7	413.6	387.0	380.7
67.5°	636.6	573.1	485.2	437.9	429.8	439.0	451.2	445.4	422.9	403.8	397.4
70°	591.0	528.6	450.0	405.0	400.9	413.6	433.3	438.5	428.1	412.5	410.1
72.5°	519.3	472.0	398.6	363.4	362.2	374.9	395.1	409.6	412.5	413.0	411.9
75°	447.7	399.2	339.7	313.1	315.4	329.3	347.2	362.8	378.4	391.1	396.3
77.5°	366.8	331.0	283.6	258.2	262.8	278.4	292.9	308.5	324.7	346.6	349.5
80°	281.3	257.1	214.3	203.3	202.8	215.5	232.8	242.0	265.2	283.1	281.3
82.5°	198.7	179.7	155.4	145.6	147.9	156.6	167.5	173.9	190.6	200.5	203.3
85°	117.3	109.2	95.3	86.1	88.4	97.0	98.8	106.9	110.9	117.3	115.5
87.5°	24.8	21.4	19.1	19.6	17.3	17.9	20.2	19.6	19.6	23.1	22.0
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)