

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: P198220

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34707)
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-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3073.1 lumens
Efficiency: N/A
Efficacy: 91.7 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



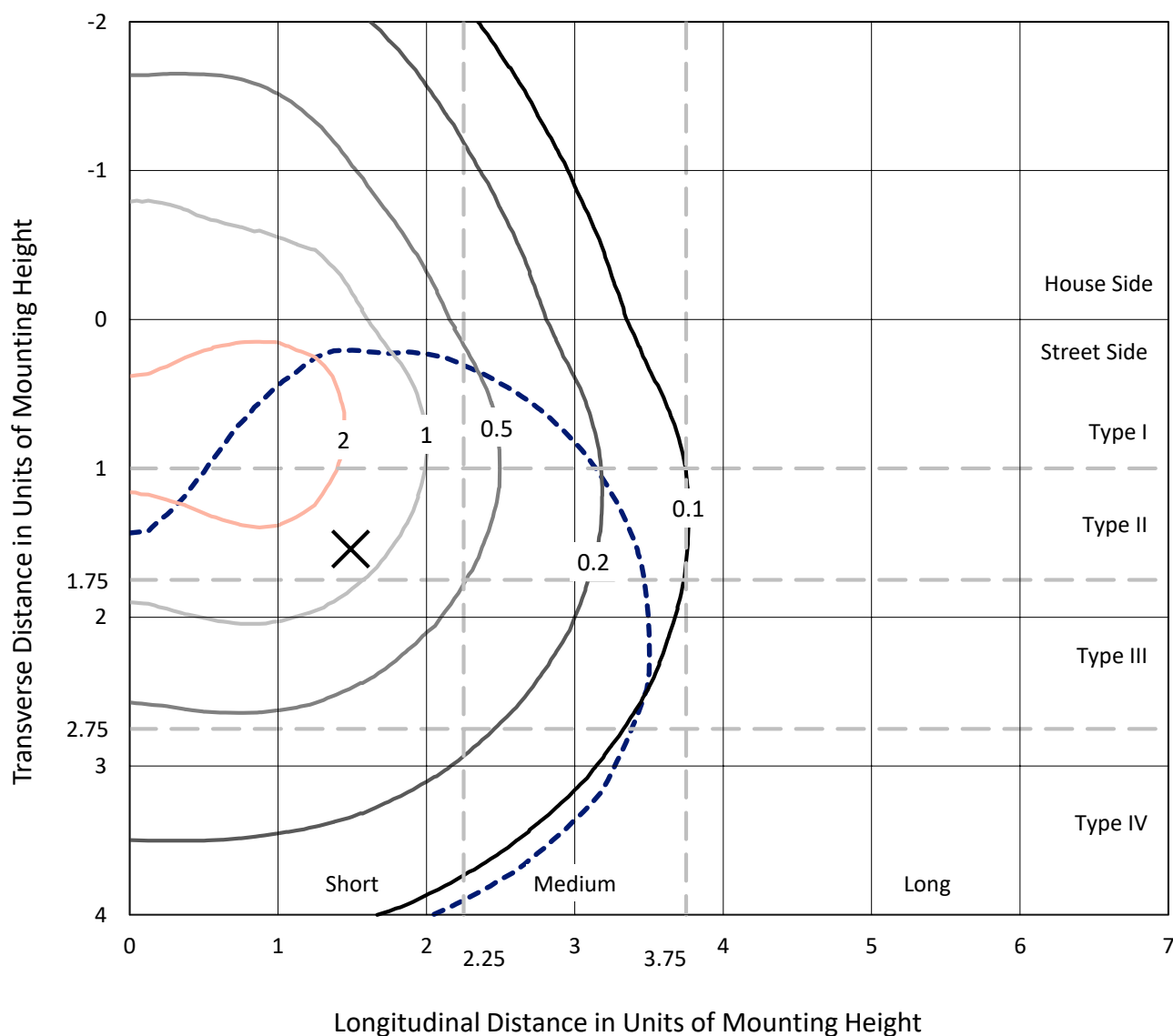
REPORT NUMBER: P198220

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

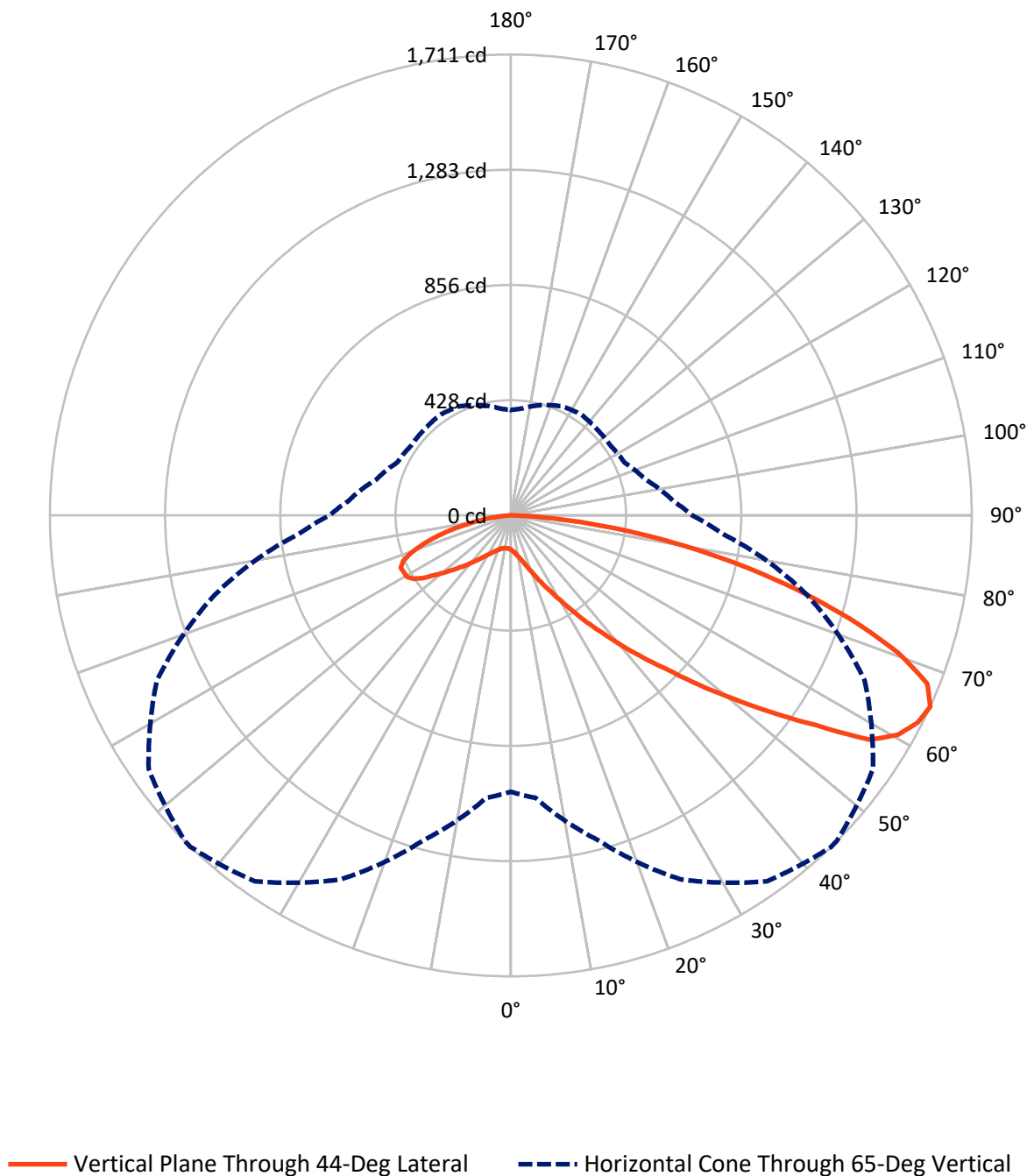


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P198220

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

Luminous Intensity Polar Plot



REPORT NUMBER: P198220

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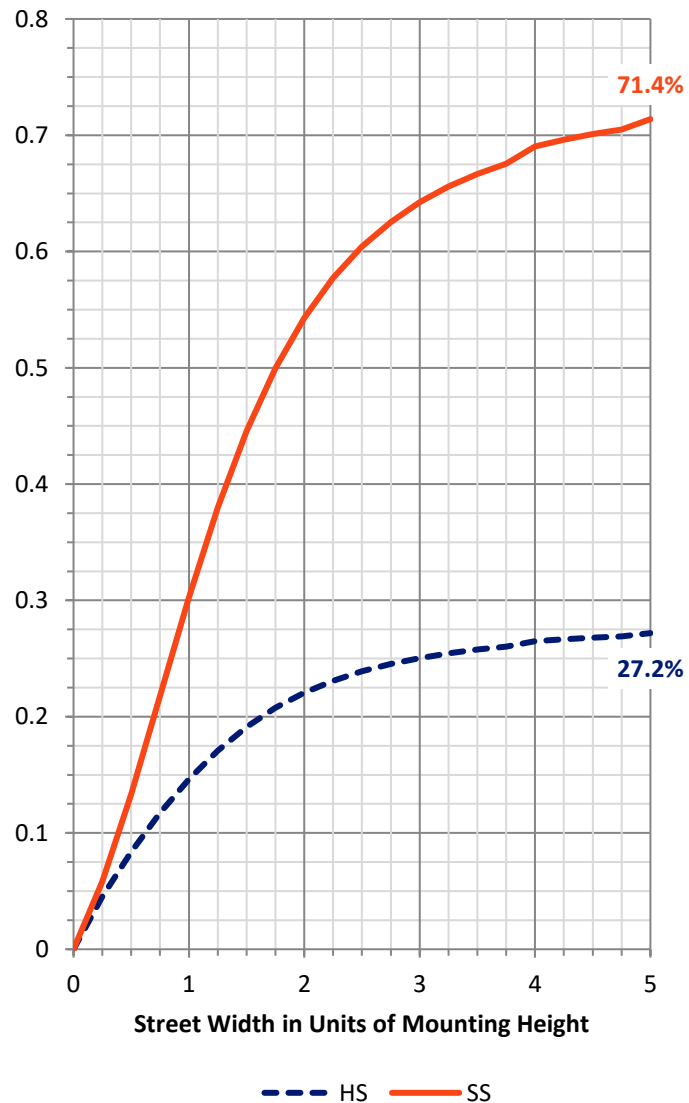
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	842.8	0.0	842.8
	% Fixture	27.4	0.0	27.4
Street Side	Lumens	2230.3	0.0	2230.3
	% Fixture	72.6	0.0	72.6
Total	Lumens	3073.1	0.0	3073.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.7	0.4
10°-20°	44.7	1.5
20°-30°	100.3	3.3
30°-40°	204.6	6.7
40°-50°	393.4	12.8
50°-60°	683.4	22.2
60°-70°	875.3	28.5
70°-80°	626.8	20.4
80°-90°	131.8	4.3
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°	3073.1	100.0
0°-180°	3073.1	100.0

Coefficient of Utilization



REPORT NUMBER: P198220

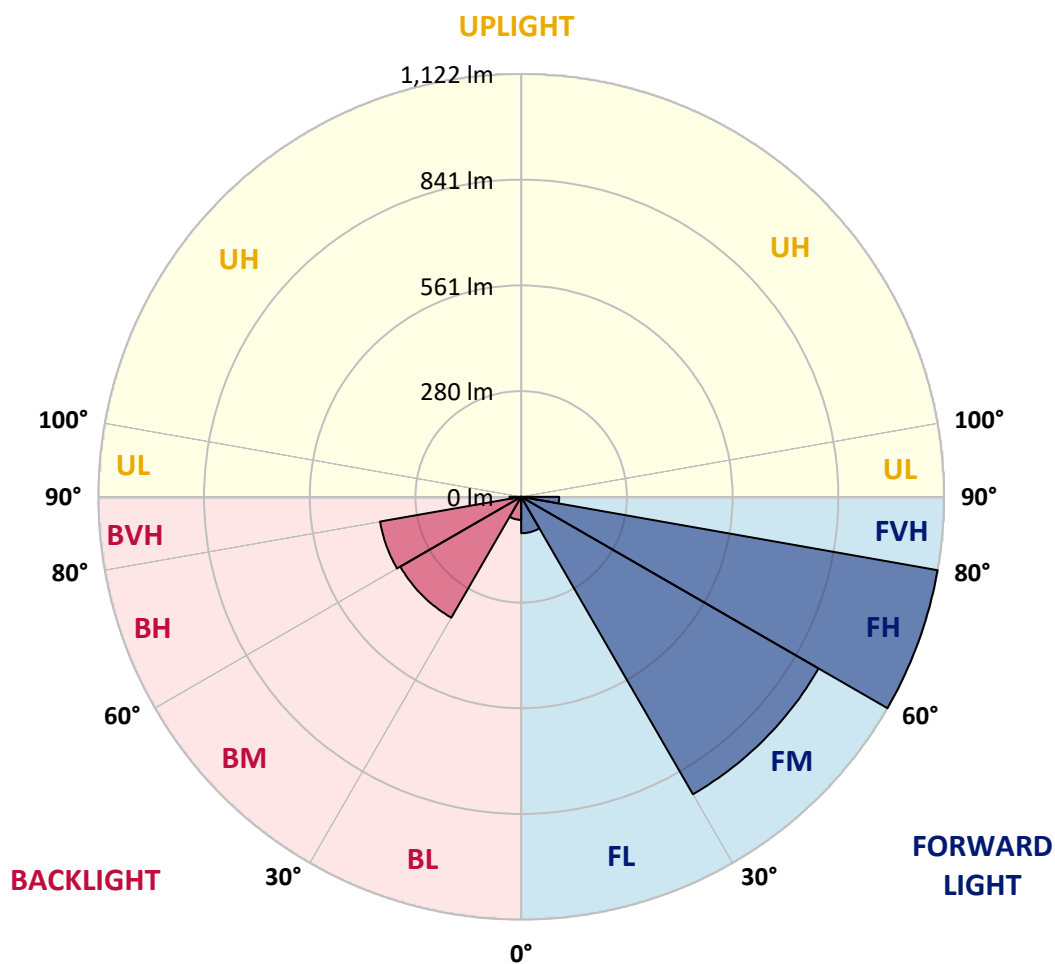
CATALOG NUMBER: TT-C1-LED-E1-DL-CG-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	96.6	3.1			
FM	(30°-60°)	911.2	29.7			
FH	(60°-80°)	1121.8	36.5			G1/1800
FVH	(80°-90°)	100.8	3.3			G2/225
BL	(0°-30°)	61.2	2.0	B0/110		
BM	(30°-60°)	370.2	12.0	B1/1000		
BH	(60°-80°)	380.3	12.4	B1/500		G1/500
BVH	(80°-90°)	31.1	1.0			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: P198220

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5
2.5°	133.4	133.4	133.4	132.9	132.3	131.7	131.7	131.1	130.6	130.0	128.8
5°	141.5	141.0	141.0	139.8	139.2	138.1	138.1	136.9	135.2	133.4	131.7
7.5°	150.2	150.8	150.2	149.0	147.3	146.2	145.6	143.3	141.0	138.1	135.2
10°	160.6	161.2	161.2	160.0	158.3	155.4	155.4	151.9	148.5	145.0	139.8
12.5°	175.6	175.0	174.5	174.5	171.0	167.5	168.7	164.1	158.3	153.1	146.7
15°	189.5	190.6	191.8	188.9	186.6	183.1	182.5	176.8	170.4	162.9	154.8
17.5°	209.7	210.9	210.3	209.1	206.2	202.2	201.0	194.1	185.4	175.0	164.1
20°	235.7	236.3	234.0	232.8	230.5	225.3	223.6	215.5	203.9	189.5	176.2
22.5°	264.6	262.8	262.3	261.1	260.5	254.8	254.2	242.0	225.3	209.1	190.1
25°	289.4	291.1	292.3	294.0	293.5	287.7	287.7	273.8	253.6	231.6	207.4
27.5°	318.3	321.2	324.7	328.7	328.1	324.1	326.4	313.1	285.9	259.4	228.2
30°	349.5	354.1	359.9	369.7	372.6	368.6	368.6	351.8	325.2	289.4	251.3
32.5°	391.1	393.4	398.6	414.2	422.9	422.9	422.3	403.8	371.4	326.4	279.0
35°	434.4	435.0	448.9	467.9	478.9	487.6	483.5	465.6	429.2	373.8	314.3
37.5°	478.9	479.5	499.1	521.6	546.5	553.4	556.9	540.7	493.9	426.3	353.0
40°	523.4	530.9	554.0	585.2	622.2	636.0	634.3	619.8	563.8	484.1	395.1
42.5°	568.4	584.0	607.7	655.7	699.6	722.1	723.2	710.5	651.6	559.8	450.0
45°	622.2	632.0	668.4	723.8	786.8	816.3	819.1	813.4	757.9	652.2	515.9
47.5°	678.2	687.4	731.3	801.2	879.8	939.3	944.5	939.3	870.6	730.2	574.8
50°	739.4	742.9	795.5	889.0	1002.8	1068.1	1071.6	1073.9	980.9	830.7	632.0
52.5°	796.6	797.8	865.4	987.8	1133.4	1214.9	1218.9	1214.3	1140.9	956.6	739.4
55°	853.2	854.4	939.9	1101.0	1273.8	1374.9	1400.3	1402.6	1269.7	1037.5	768.3
57.5°	905.8	911.0	1027.7	1213.7	1432.1	1571.3	1569.5	1530.8	1345.4	1068.1	774.7
60°	953.2	969.9	1111.4	1340.2	1560.3	1652.2	1661.4	1576.5	1372.0	1081.4	769.5
62.5°	993.6	1012.1	1190.6	1440.7	1640.6	1694.9	1691.4	1595.0	1409.5	1127.6	803.5
65°	1026.0	1052.5	1247.2	1490.4	1657.9	1711.1	1710.5	1641.2	1449.4	1137.4	789.7
67.5°	1043.9	1084.9	1255.9	1491.6	1644.6	1667.2	1659.1	1573.0	1374.9	1074.5	722.7
70°	1053.7	1080.3	1235.1	1425.7	1530.3	1523.9	1525.6	1421.1	1246.6	969.3	642.4
72.5°	1017.9	1039.8	1148.4	1283.6	1352.3	1320.0	1335.0	1239.1	1083.7	826.7	541.3
75°	928.9	939.3	991.9	1077.9	1114.9	1093.0	1093.0	1023.6	874.6	678.2	437.3
77.5°	777.6	781.0	801.2	847.4	857.8	851.5	849.8	790.3	671.3	518.2	327.0
80°	555.7	568.4	577.1	597.3	619.3	610.0	597.9	549.9	469.7	354.7	225.3
82.5°	344.9	346.0	354.7	368.0	371.4	383.6	381.8	343.7	283.6	212.0	131.7
85°	161.2	158.3	166.4	175.6	180.8	180.2	184.3	165.8	131.1	97.0	60.1
87.5°	25.4	35.8	38.1	37.5	41.6	42.2	43.9	39.9	27.2	19.1	14.4
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: P198220

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5
2.5°	128.2	128.2	127.1	125.9	124.8	124.2	123.6	123.0	123.0	122.5	122.5
5°	131.1	130.0	128.2	126.5	124.8	123.6	122.5	121.9	120.7	120.2	120.2
7.5°	133.4	132.3	129.4	127.1	124.8	123.0	121.3	120.2	119.6	119.0	119.0
10°	138.1	135.8	132.3	128.2	125.4	123.0	121.3	120.2	119.6	119.0	119.0
12.5°	144.4	141.0	135.2	131.1	127.1	124.2	122.5	121.3	120.2	120.2	119.6
15°	151.4	147.3	140.4	134.0	129.4	126.5	124.2	123.6	122.5	122.5	122.5
17.5°	159.4	154.8	146.2	138.6	133.4	130.0	127.7	126.5	125.9	126.5	127.1
20°	169.8	163.5	152.5	144.4	138.1	134.6	132.9	131.1	131.1	132.3	132.3
22.5°	182.0	174.5	161.2	151.4	145.0	140.4	139.2	138.1	137.5	138.6	138.6
25°	194.7	186.0	170.4	159.4	151.9	147.9	146.7	145.6	146.2	146.7	145.0
27.5°	214.3	202.2	182.0	169.3	160.6	156.6	154.8	154.2	154.8	155.4	154.2
30°	232.8	218.4	195.8	180.8	169.8	165.8	164.1	164.1	164.6	164.6	164.6
32.5°	258.2	240.3	211.4	193.5	182.5	177.3	176.8	176.8	175.6	176.2	175.6
35°	288.3	266.9	232.8	210.9	198.1	192.4	190.6	189.5	189.5	189.5	189.5
37.5°	320.6	294.6	254.8	230.5	216.1	209.1	205.7	203.9	204.5	204.5	203.3
40°	357.0	327.0	280.8	250.7	237.4	227.0	223.0	221.2	220.7	219.5	216.6
42.5°	405.5	367.4	312.5	276.7	257.1	249.6	242.0	238.6	235.7	235.1	230.5
45°	462.7	421.7	353.5	313.7	287.7	270.9	263.4	257.6	252.4	250.7	247.2
47.5°	510.1	460.4	389.9	345.4	316.6	299.2	287.1	278.4	271.5	267.5	268.6
50°	563.2	507.8	431.5	375.5	347.2	328.7	317.1	302.7	292.3	285.9	288.3
52.5°	650.5	588.7	489.3	427.5	379.0	360.5	345.4	328.7	314.8	306.2	310.8
55°	674.7	610.0	517.0	460.4	422.9	402.6	380.1	359.3	339.7	328.1	328.1
57.5°	673.6	608.3	519.3	469.7	447.7	433.3	416.5	390.5	365.1	348.3	347.2
60°	664.9	599.6	513.6	463.3	446.5	449.4	442.5	420.5	390.5	367.4	363.9
62.5°	687.4	621.0	528.6	469.7	445.4	448.3	454.1	441.3	411.9	383.0	379.5
65°	673.0	606.0	516.4	465.0	451.7	452.3	456.4	447.1	423.4	396.9	391.1
67.5°	614.1	555.1	475.4	430.9	422.3	432.7	445.4	442.5	422.3	404.4	397.4
70°	539.5	487.6	419.4	382.4	376.1	391.1	412.5	416.5	410.7	399.2	396.9
72.5°	456.9	411.3	353.5	325.8	323.5	335.1	356.4	370.3	374.3	379.5	379.5
75°	366.8	331.0	281.3	262.3	262.3	275.0	292.3	310.2	321.2	335.1	339.1
77.5°	278.4	247.2	212.0	195.8	195.8	207.4	220.7	235.1	253.6	272.7	269.8
80°	190.6	170.4	145.0	136.9	135.2	141.5	153.1	162.9	179.1	191.8	199.3
82.5°	109.2	102.2	87.2	80.3	79.7	87.8	95.9	97.0	108.0	115.5	117.8
85°	52.0	45.6	42.7	38.1	38.7	40.4	43.3	45.6	48.5	51.4	51.4
87.5°	11.6	11.0	9.8	10.4	10.4	9.2	10.4	9.8	11.0	11.6	10.4
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)