

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: P198224

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198224  
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-C2-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: 3699.8 lumens  
Efficiency: N/A  
Efficacy: 89.4 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

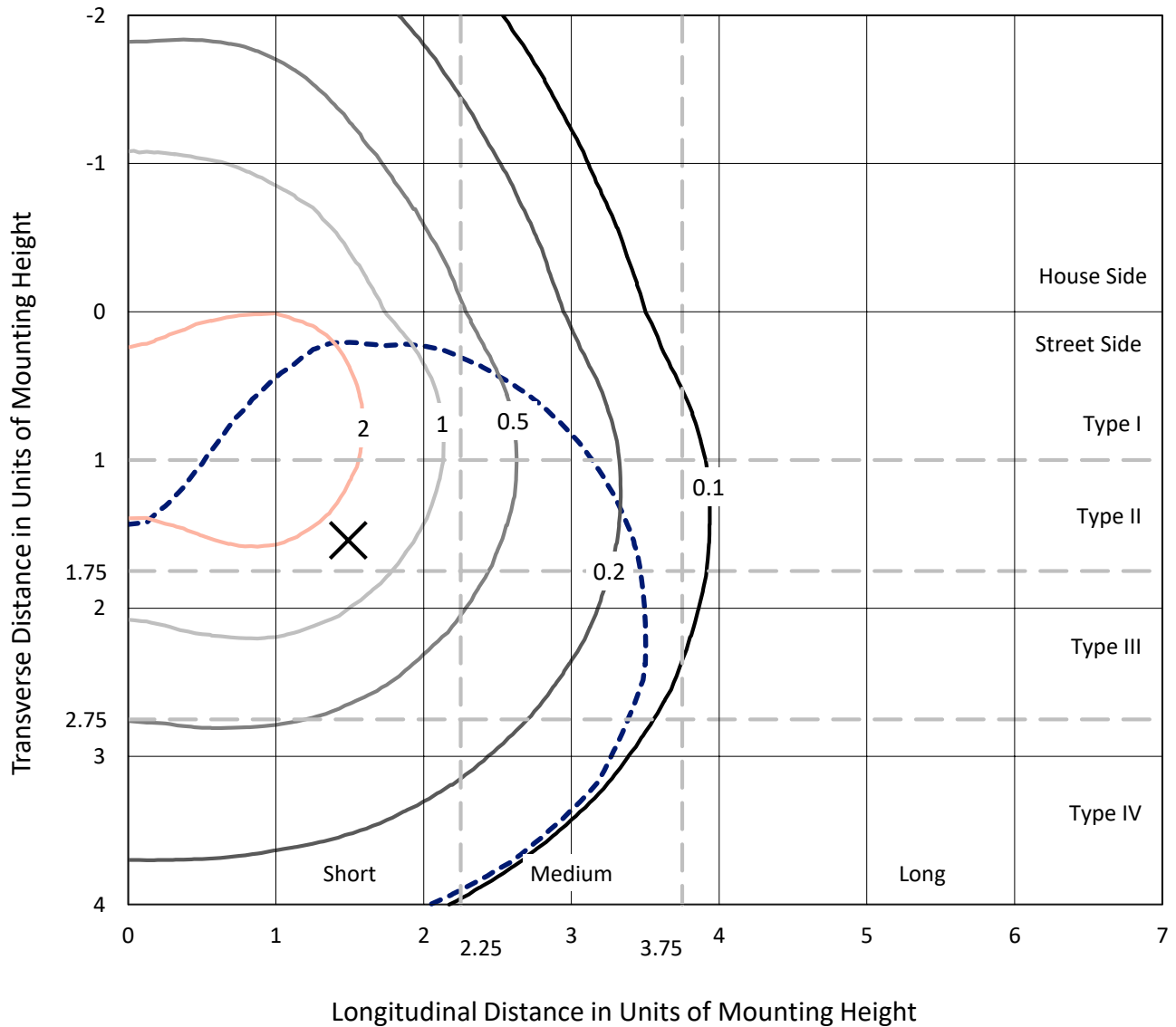


REPORT NUMBER: P198224

CATALOG NUMBER: TT-C2-LED-E1-DL-CG-7060

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

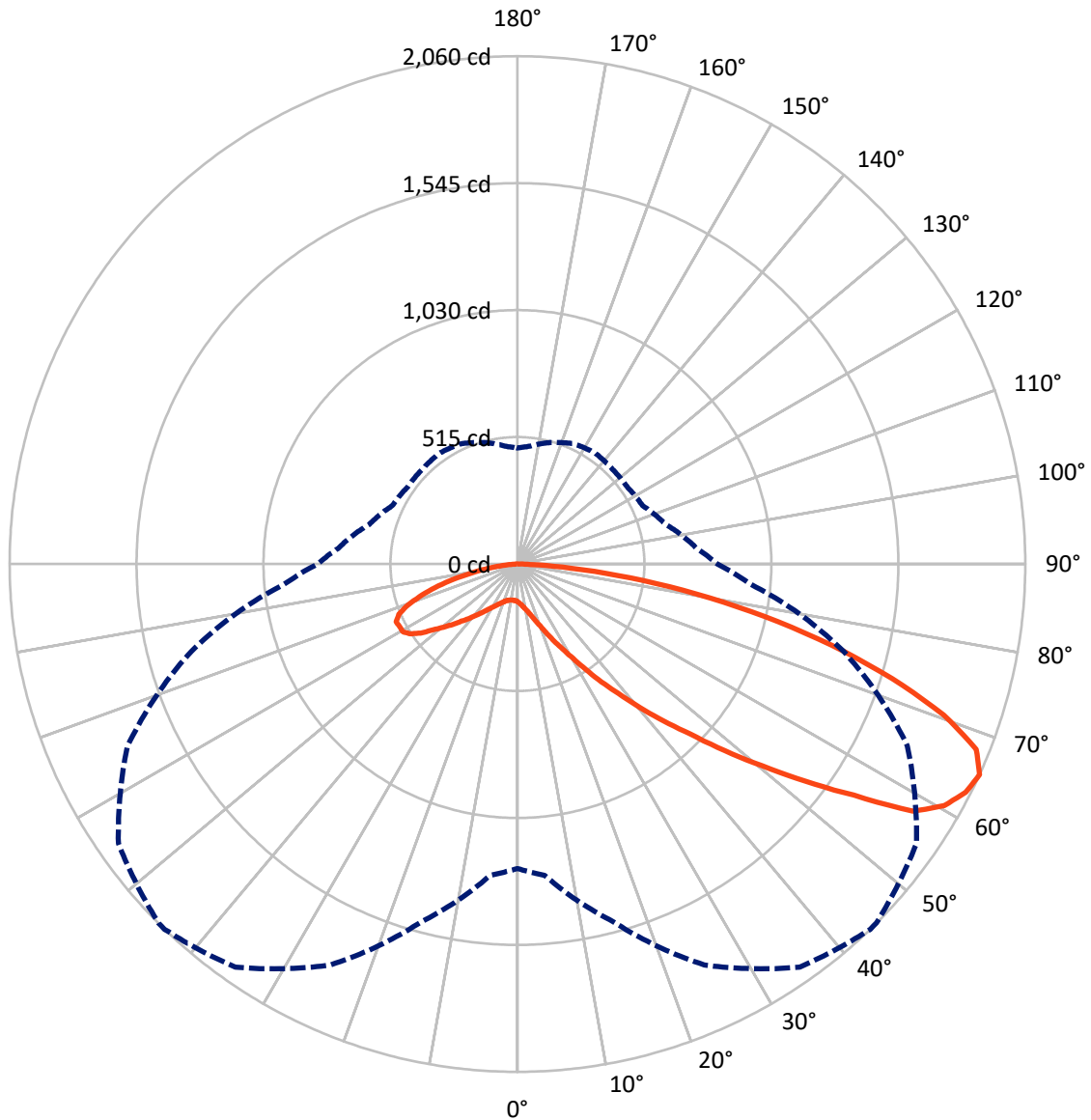


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P198224

CATALOG NUMBER: TT-C2-LED-E1-DL-CG-7060

### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P198224

CATALOG NUMBER: TT-C2-LED-E1-DL-CG-7060

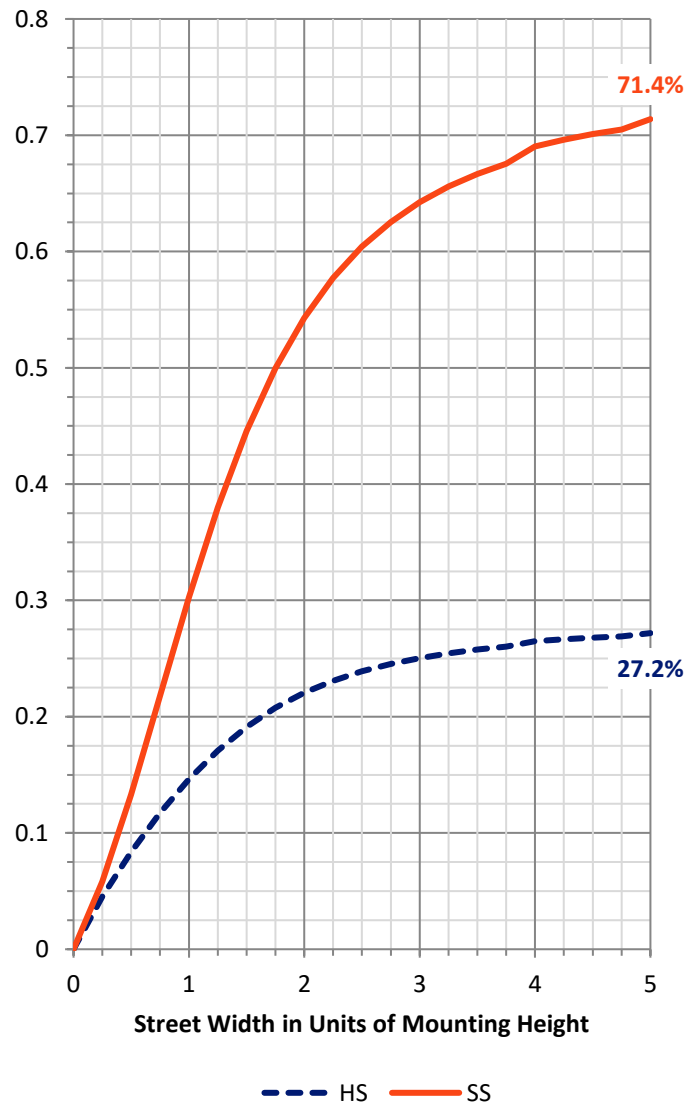
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1014.7	0.0	1014.7
	% Fixture	27.4	0.0	27.4
<b>Street Side</b>	Lumens	2685.2	0.0	2685.2
	% Fixture	72.6	0.0	72.6
<b>Total</b>	Lumens	3699.8	0.0	3699.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.3	0.4
10°-20°	53.9	1.5
20°-30°	120.8	3.3
30°-40°	246.3	6.7
40°-50°	473.6	12.8
50°-60°	822.8	22.2
60°-70°	1053.8	28.5
70°-80°	754.6	20.4
80°-90°	158.7	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°	3699.8	100.0
0°-180°	3699.8	100.0



REPORT NUMBER: P198224

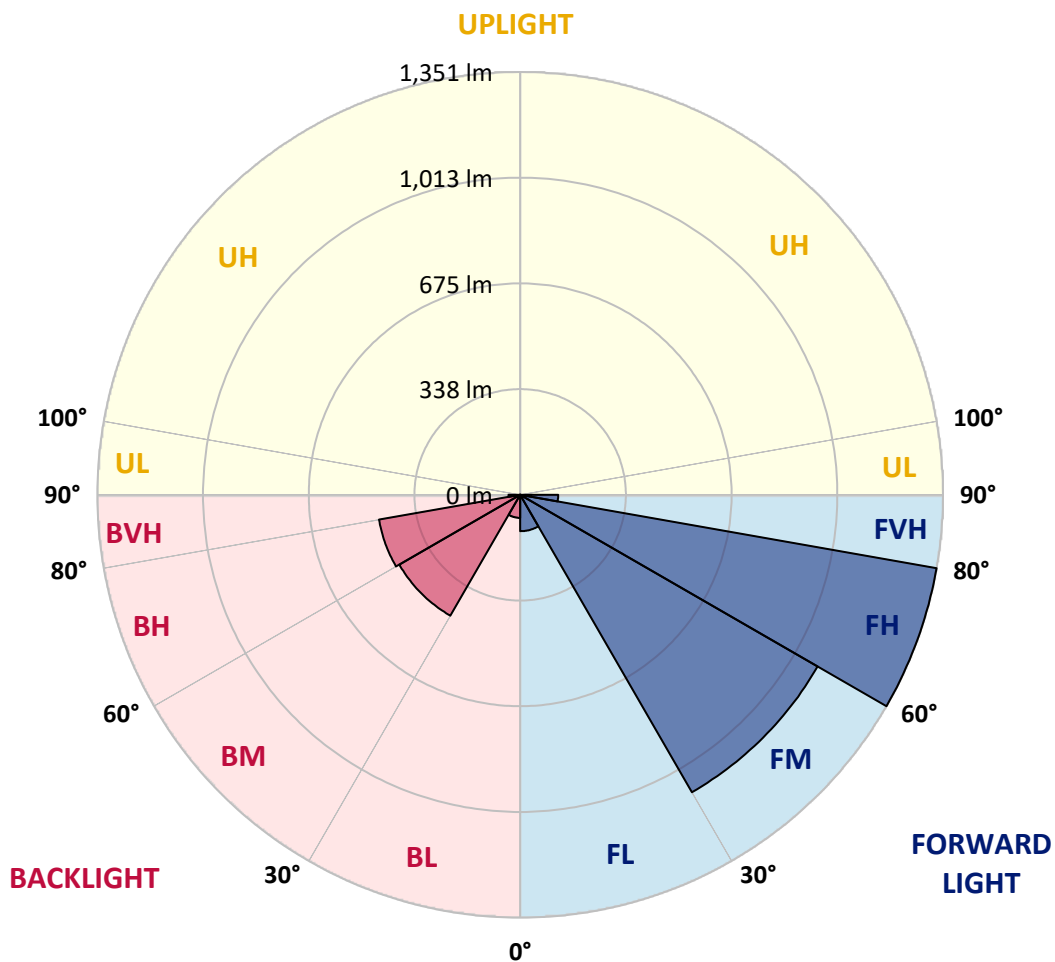
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	116.3	3.1			
FM	(30°-60°)	1097.0	29.7			
FH	(60°-80°)	1350.6	36.5			G1/1800
FVH	(80°-90°)	121.3	3.3			G2/225
BL	(0°-30°)	73.7	2.0	B0/110		
BM	(30°-60°)	445.7	12.0	B1/1000		
BH	(60°-80°)	457.8	12.4	B1/500		G1/500
BVH	(80°-90°)	37.4	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: P198224

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3
2.5°	160.7	160.7	160.7	160.0	159.3	158.6	158.6	157.9	157.2	156.5	155.1
5°	170.4	169.7	169.7	168.3	167.6	166.2	166.2	164.8	162.7	160.7	158.6
7.5°	180.8	181.5	180.8	179.4	177.3	176.0	175.3	172.5	169.7	166.2	162.7
10°	193.3	194.0	194.0	192.6	190.6	187.1	187.1	182.9	178.7	174.6	168.3
12.5°	211.4	210.7	210.0	210.0	205.9	201.7	203.1	197.5	190.6	184.3	176.7
15°	228.1	229.5	230.9	227.4	224.6	220.5	219.8	212.8	205.2	196.1	186.4
17.5°	252.5	253.9	253.2	251.8	248.3	243.4	242.0	233.7	223.3	210.7	197.5
20°	283.8	284.5	281.7	280.3	277.5	271.2	269.2	259.4	245.5	228.1	212.1
22.5°	318.5	316.4	315.8	314.4	313.7	306.7	306.0	291.4	271.2	251.8	228.8
25°	348.4	350.5	351.9	354.0	353.3	346.4	346.4	329.7	305.3	278.9	249.7
27.5°	383.2	386.7	390.9	395.7	395.0	390.2	392.9	377.0	344.3	312.3	274.7
30°	420.8	426.3	433.3	445.1	448.6	443.7	443.7	423.6	391.6	348.4	302.5
32.5°	470.8	473.6	479.9	498.7	509.1	509.1	508.4	486.1	447.2	392.9	335.9
35°	523.0	523.7	540.4	563.3	576.6	587.0	582.1	560.6	516.7	450.0	378.3
37.5°	576.6	577.3	600.9	628.0	657.9	666.3	670.4	651.0	594.6	513.3	424.9
40°	630.1	639.2	667.0	704.5	749.0	765.7	763.6	746.3	678.8	582.8	475.7
42.5°	684.4	703.1	731.7	789.4	842.2	869.4	870.7	855.4	784.5	673.9	541.8
45°	749.0	760.9	804.7	871.4	947.3	982.7	986.2	979.2	912.5	785.2	621.1
47.5°	816.5	827.6	880.5	964.6	1059.2	1130.9	1137.1	1130.9	1048.1	879.1	692.0
50°	890.2	894.4	957.7	1070.4	1207.4	1286.0	1290.1	1292.9	1180.9	1000.1	760.9
52.5°	959.1	960.5	1041.8	1189.3	1364.5	1462.6	1467.5	1461.9	1373.6	1151.7	890.2
55°	1027.2	1028.6	1131.6	1325.6	1533.5	1655.3	1685.9	1688.6	1528.7	1249.1	925.0
57.5°	1090.5	1096.8	1237.3	1461.2	1724.1	1891.7	1889.6	1843.0	1619.8	1286.0	932.6
60°	1147.6	1167.7	1338.1	1613.5	1878.5	1989.1	2000.2	1898.0	1651.8	1301.9	926.4
62.5°	1196.2	1218.5	1433.4	1734.5	1975.2	2040.6	2036.4	1920.2	1697.0	1357.6	967.4
65°	1235.2	1267.2	1501.6	1794.4	1996.0	2060.0	2059.3	1975.9	1745.0	1369.4	950.7
67.5°	1256.7	1306.1	1512.0	1795.7	1980.0	2007.2	1997.4	1893.8	1655.3	1293.6	870.1
70°	1268.6	1300.6	1486.9	1716.5	1842.3	1834.7	1836.8	1710.9	1500.9	1167.0	773.4
72.5°	1225.4	1251.9	1382.6	1545.4	1628.1	1589.2	1607.3	1491.8	1304.7	995.2	651.7
75°	1118.3	1130.9	1194.1	1297.8	1342.3	1315.9	1315.9	1232.4	1053.0	816.5	526.5
77.5°	936.1	940.3	964.6	1020.3	1032.8	1025.1	1023.1	951.4	808.2	623.9	393.6
80°	669.1	684.4	694.8	719.1	745.6	734.4	719.8	662.1	565.4	427.0	271.2
82.5°	415.2	416.6	427.0	443.0	447.2	461.8	459.7	413.8	341.5	255.2	158.6
85°	194.0	190.6	200.3	211.4	217.7	217.0	221.9	199.6	157.9	116.8	72.3
87.5°	30.6	43.1	45.9	45.2	50.1	50.8	52.9	48.0	32.7	23.0	17.4
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: P198224

CATALOG NUMBER: TT-C2-LED-E1-DL-CG-7060

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3
2.5°	154.4	154.4	153.0	151.6	150.2	149.5	148.8	148.1	148.1	147.4	147.4
5°	157.9	156.5	154.4	152.3	150.2	148.8	147.4	146.7	145.4	144.7	144.7
7.5°	160.7	159.3	155.8	153.0	150.2	148.1	146.1	144.7	144.0	143.3	143.3
10°	166.2	163.4	159.3	154.4	150.9	148.1	146.1	144.7	144.0	143.3	143.3
12.5°	173.9	169.7	162.7	157.9	153.0	149.5	147.4	146.1	144.7	144.7	144.0
15°	182.2	177.3	169.0	161.4	155.8	152.3	149.5	148.8	147.4	147.4	147.4
17.5°	192.0	186.4	176.0	166.9	160.7	156.5	153.7	152.3	151.6	152.3	153.0
20°	204.5	196.8	183.6	173.9	166.2	162.0	160.0	157.9	157.9	159.3	159.3
22.5°	219.1	210.0	194.0	182.2	174.6	169.0	167.6	166.2	165.5	166.9	166.9
25°	234.4	223.9	205.2	192.0	182.9	178.0	176.7	175.3	176.0	176.7	174.6
27.5°	258.0	243.4	219.1	203.8	193.3	188.5	186.4	185.7	186.4	187.1	185.7
30°	280.3	262.9	235.8	217.7	204.5	199.6	197.5	197.5	198.2	198.2	198.2
32.5°	310.9	289.3	254.5	233.0	219.8	213.5	212.8	212.8	211.4	212.1	211.4
35°	347.0	321.3	280.3	253.9	238.6	231.6	229.5	228.1	228.1	228.1	228.1
37.5°	386.0	354.7	306.7	277.5	260.1	251.8	247.6	245.5	246.2	246.2	244.8
40°	429.8	393.6	338.0	301.8	285.8	273.3	268.5	266.4	265.7	264.3	260.8
42.5°	488.2	442.3	376.3	333.1	309.5	300.4	291.4	287.2	283.8	283.1	277.5
45°	557.1	507.7	425.6	377.6	346.4	326.2	317.1	310.2	303.9	301.8	297.7
47.5°	614.1	554.3	469.5	415.9	381.1	360.3	345.7	335.2	326.9	322.0	323.4
50°	678.1	611.3	519.5	452.1	418.0	395.7	381.8	364.4	351.9	344.3	347.0
52.5°	783.1	708.7	589.1	514.7	456.2	434.0	415.9	395.7	379.0	368.6	374.2
55°	812.3	734.4	622.5	554.3	509.1	484.8	457.6	432.6	408.9	395.0	395.0
57.5°	810.9	732.3	625.2	565.4	539.0	521.6	501.4	470.1	439.5	419.4	418.0
60°	800.5	721.9	618.3	557.8	537.6	541.1	532.7	506.3	470.1	442.3	438.2
62.5°	827.6	747.6	636.4	565.4	536.2	539.7	546.7	531.4	495.9	461.1	456.9
65°	810.2	729.6	621.8	559.9	543.9	544.6	549.4	538.3	509.8	477.8	470.8
67.5°	739.3	668.4	572.4	518.8	508.4	520.9	536.2	532.7	508.4	486.8	478.5
70°	649.6	587.0	504.9	460.4	452.8	470.8	496.6	501.4	494.5	480.6	477.8
72.5°	550.1	495.2	425.6	392.3	389.5	403.4	429.1	445.8	450.7	456.9	456.9
75°	441.6	398.5	338.7	315.8	315.8	331.1	351.9	373.5	386.7	403.4	408.2
77.5°	335.2	297.7	255.2	235.8	235.8	249.7	265.7	283.1	305.3	328.3	324.8
80°	229.5	205.2	174.6	164.8	162.7	170.4	184.3	196.1	215.6	230.9	239.9
82.5°	131.4	123.1	105.0	96.7	96.0	105.7	115.5	116.8	130.1	139.1	141.9
85°	62.6	54.9	51.5	45.9	46.6	48.7	52.2	54.9	58.4	61.9	61.9
87.5°	13.9	13.2	11.8	12.5	12.5	11.1	12.5	11.8	13.2	13.9	12.5
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)