

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: P198223

Luminaire Tested: **TT-C2-LED-E1-DL-CG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198223
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3728 lumens
Efficiency: N/A
Efficacy: 90.0 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



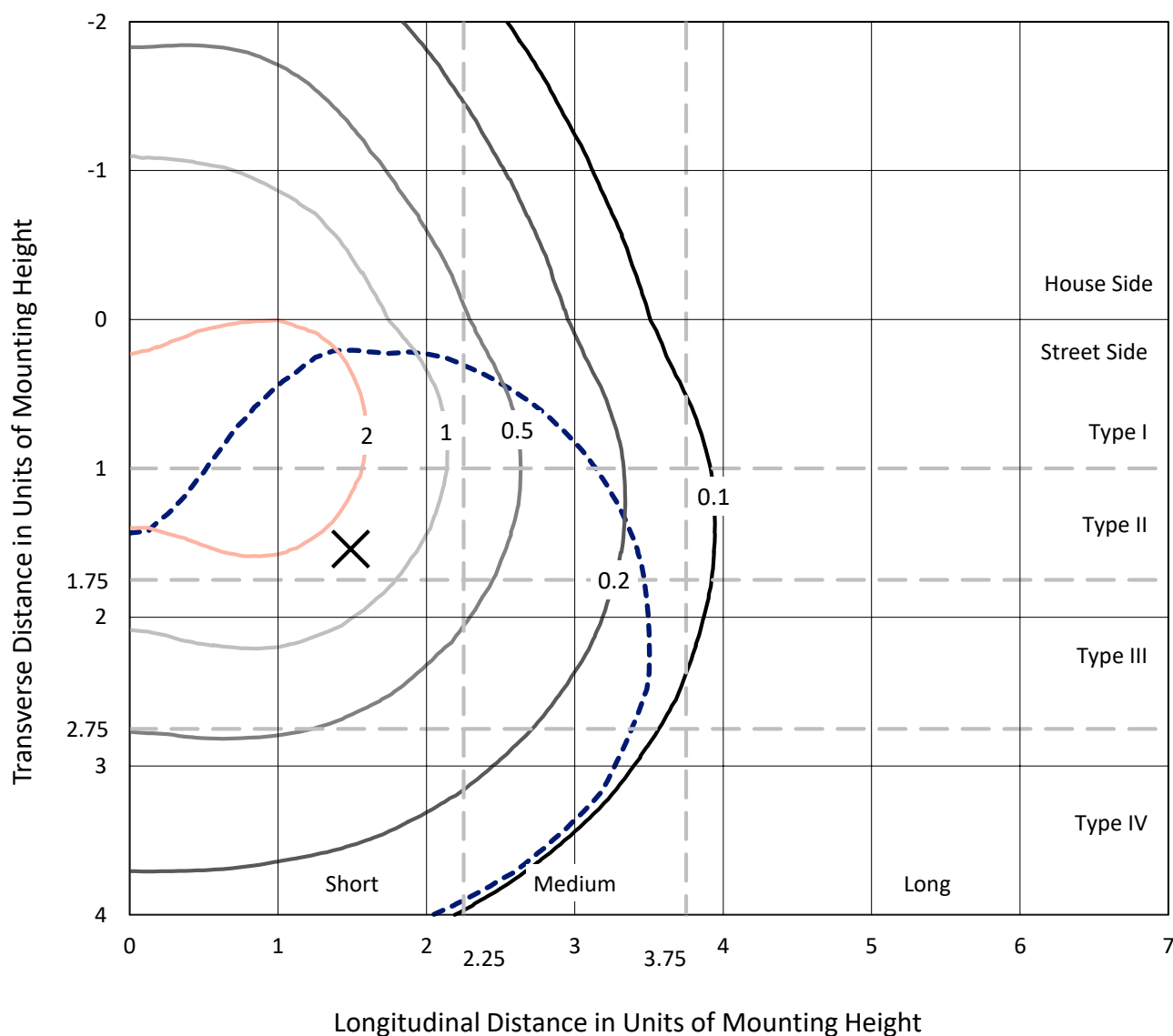
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

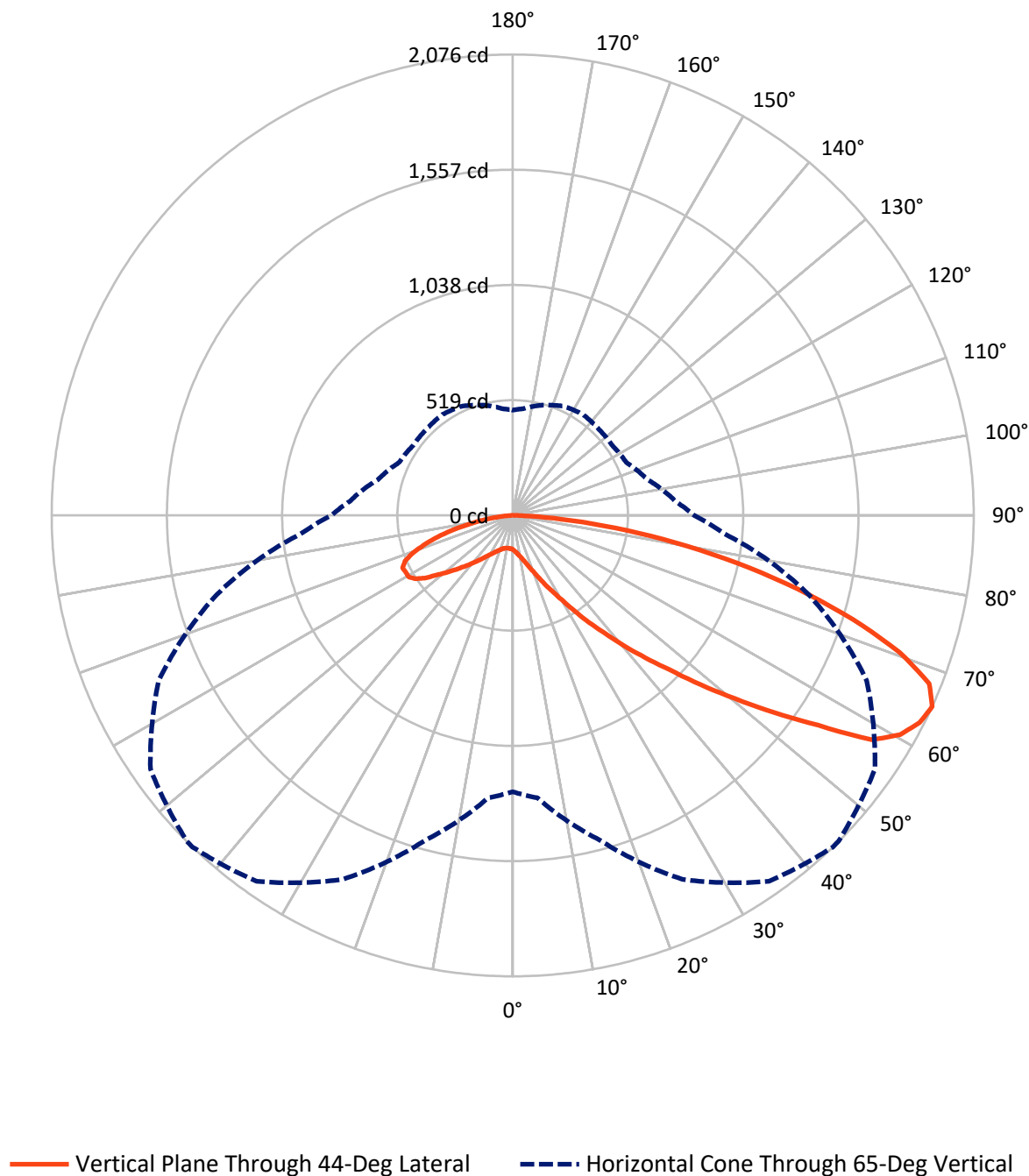


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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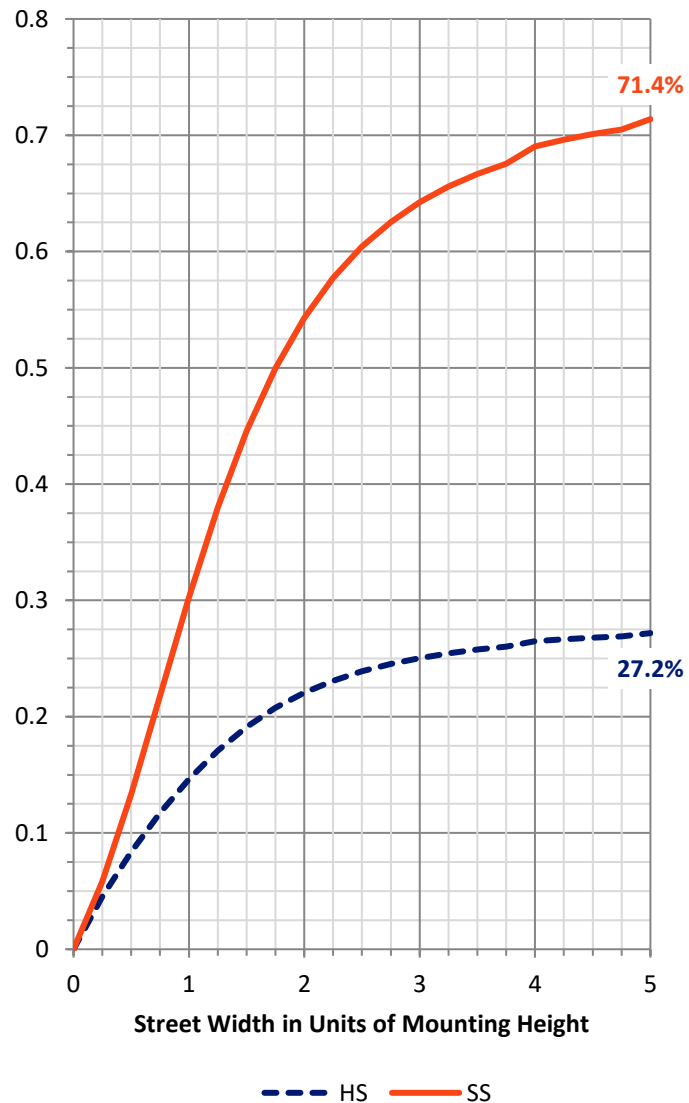
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1022.4	0.0	1022.4
	% Fixture	27.4	0.0	27.4
Street Side	Lumens	2705.6	0.0	2705.6
	% Fixture	72.6	0.0	72.6
Total	Lumens	3728.0	0.0	3728.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.5	0.4
10°-20°	54.3	1.5
20°-30°	121.7	3.3
30°-40°	248.2	6.7
40°-50°	477.2	12.8
50°-60°	829.0	22.2
60°-70°	1061.8	28.5
70°-80°	760.4	20.4
80°-90°	159.9	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°	3728.0	100.0
0°-180°	3728.0	100.0

Coefficient of Utilization



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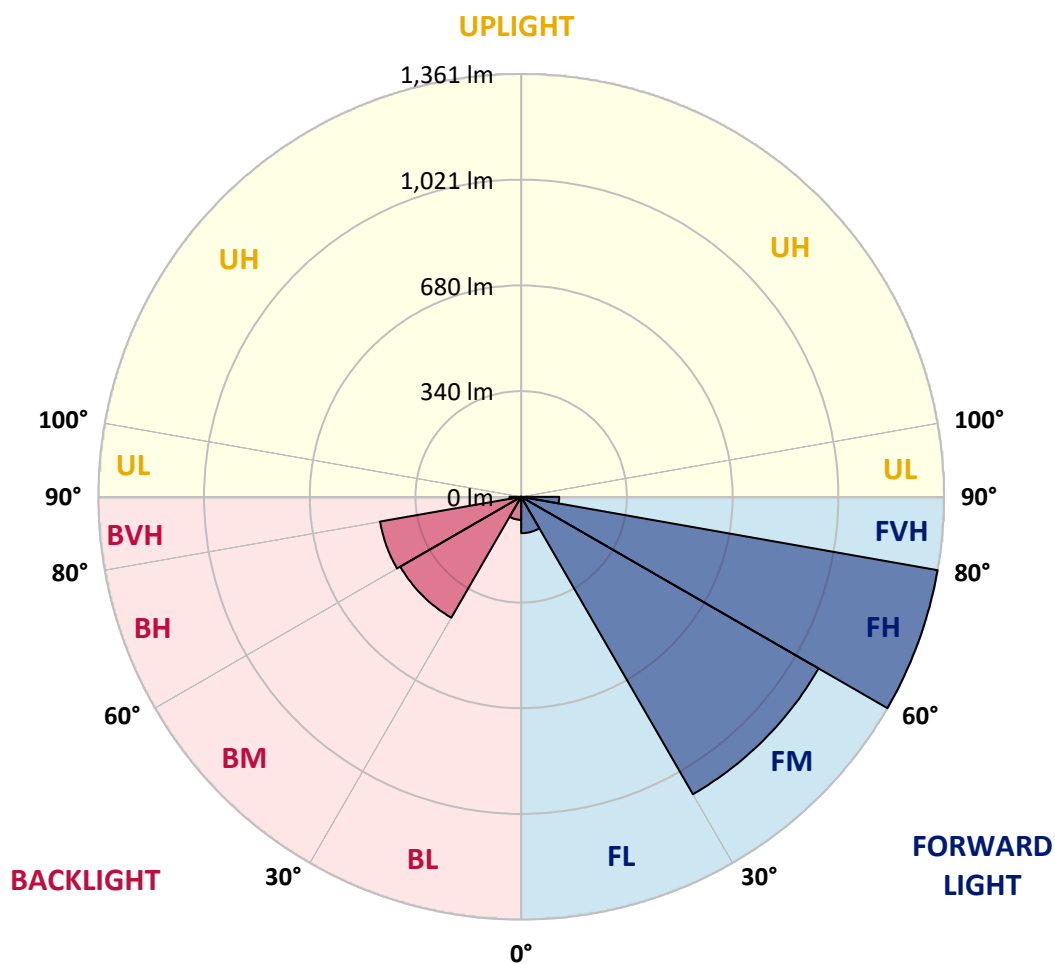
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	117.2	3.1			
FM	(30°-60°)	1105.3	29.6			
FH	(60°-80°)	1360.8	36.5			G1/1800
FVH	(80°-90°)	122.3	3.3			G2/225
BL	(0°-30°)	74.2	2.0	B0/110		
BM	(30°-60°)	449.1	12.0	B1/1000		
BH	(60°-80°)	461.3	12.4	B1/500		G1/500
BVH	(80°-90°)	37.7	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	153.5	153.5	153.5	153.5	153.5	153.5	153.5	153.5	153.5	153.5	153.5
2.5°	161.9	161.9	161.9	161.2	160.5	159.8	159.8	159.1	158.4	157.7	156.3
5°	171.7	171.0	171.0	169.6	168.9	167.5	167.5	166.1	164.0	161.9	159.8
7.5°	182.2	182.9	182.2	180.8	178.7	177.3	176.6	173.8	171.0	167.5	164.0
10°	194.8	195.5	195.5	194.1	192.0	188.5	188.5	184.3	180.1	175.9	169.6
12.5°	213.0	212.3	211.6	211.6	207.4	203.2	204.6	199.0	192.0	185.7	178.0
15°	229.9	231.3	232.7	229.2	226.4	222.1	221.4	214.4	206.7	197.6	187.8
17.5°	254.4	255.8	255.1	253.7	250.2	245.3	243.9	235.5	224.9	212.3	199.0
20°	285.9	286.6	283.8	282.4	279.6	273.3	271.2	261.4	247.4	229.9	213.7
22.5°	321.0	318.9	318.2	316.8	316.1	309.0	308.3	293.6	273.3	253.7	230.6
25°	351.1	353.2	354.6	356.7	356.0	349.0	349.0	332.2	307.6	281.0	251.6
27.5°	386.1	389.6	393.8	398.7	398.0	393.1	395.9	379.8	346.9	314.6	276.8
30°	424.0	429.6	436.6	448.5	452.0	447.1	447.1	426.8	394.5	351.1	304.8
32.5°	474.4	477.2	483.5	502.5	513.0	513.0	512.3	489.8	450.6	395.9	338.5
35°	527.0	527.7	544.5	567.6	580.9	591.5	586.6	564.8	520.7	453.4	381.2
37.5°	580.9	581.6	605.5	632.8	662.9	671.3	675.5	655.9	599.2	517.2	428.2
40°	634.9	644.0	672.0	709.9	754.7	771.6	769.5	751.9	684.0	587.3	479.3
42.5°	689.6	708.5	737.2	795.4	848.6	876.0	877.4	862.0	790.5	679.1	545.9
45°	754.7	766.6	810.8	878.1	954.5	990.2	993.7	986.7	919.4	791.2	625.8
47.5°	822.7	833.9	887.2	972.0	1067.3	1139.5	1145.8	1139.5	1056.1	885.8	697.3
50°	897.0	901.2	965.0	1078.5	1216.5	1295.7	1299.9	1302.7	1189.9	1007.7	766.6
52.5°	966.4	967.8	1049.8	1198.3	1374.9	1473.7	1478.6	1473.0	1384.0	1160.5	897.0
55°	1035.0	1036.4	1140.2	1335.7	1545.2	1667.8	1698.7	1701.5	1540.3	1258.6	932.0
57.5°	1098.8	1105.1	1246.7	1472.3	1737.2	1906.1	1904.0	1857.1	1632.1	1295.7	939.7
60°	1156.3	1176.6	1348.3	1625.8	1892.8	2004.2	2015.4	1912.4	1664.3	1311.9	933.4
62.5°	1205.3	1227.8	1444.3	1747.7	1990.2	2056.1	2051.9	1934.8	1709.9	1367.9	974.8
65°	1244.6	1276.8	1513.0	1808.0	2011.2	2075.7	2075.0	1990.9	1758.2	1379.8	958.0
67.5°	1266.3	1316.1	1523.5	1809.4	1995.1	2022.4	2012.6	1908.2	1667.8	1303.4	876.7
70°	1278.2	1310.5	1498.3	1729.5	1856.4	1848.6	1850.8	1723.9	1512.3	1175.9	779.3
72.5°	1234.8	1261.4	1393.1	1557.1	1640.5	1601.3	1619.5	1503.2	1314.7	1002.8	656.6
75°	1126.8	1139.5	1203.2	1307.6	1352.5	1325.9	1325.9	1241.8	1061.0	822.7	530.5
77.5°	943.2	947.5	972.0	1028.0	1040.7	1032.9	1030.8	958.7	814.3	628.6	396.6
80°	674.1	689.6	700.1	724.6	751.2	740.0	725.3	667.1	569.7	430.3	273.3
82.5°	418.4	419.8	430.3	446.4	450.6	465.3	463.2	417.0	344.1	257.2	159.8
85°	195.5	192.0	201.8	213.0	219.3	218.6	223.5	201.1	159.1	117.7	72.9
87.5°	30.8	43.4	46.3	45.6	50.5	51.2	53.3	48.4	32.9	23.1	17.5
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°	153.5	153.5	153.5	153.5	153.5	153.5	153.5	153.5	153.5	153.5	153.5
2.5°	155.6	155.6	154.2	152.8	151.4	150.7	150.0	149.3	149.3	148.6	148.6
5°	159.1	157.7	155.6	153.5	151.4	150.0	148.6	147.9	146.5	145.8	145.8
7.5°	161.9	160.5	157.0	154.2	151.4	149.3	147.2	145.8	145.1	144.4	144.4
10°	167.5	164.7	160.5	155.6	152.1	149.3	147.2	145.8	145.1	144.4	144.4
12.5°	175.2	171.0	164.0	159.1	154.2	150.7	148.6	147.2	145.8	145.8	145.1
15°	183.6	178.7	170.3	162.6	157.0	153.5	150.7	150.0	148.6	148.6	148.6
17.5°	193.4	187.8	177.3	168.2	161.9	157.7	154.9	153.5	152.8	153.5	154.2
20°	206.0	198.3	185.0	175.2	167.5	163.3	161.2	159.1	159.1	160.5	160.5
22.5°	220.7	211.6	195.5	183.6	175.9	170.3	168.9	167.5	166.8	168.2	168.2
25°	236.2	225.7	206.7	193.4	184.3	179.4	178.0	176.6	177.3	178.0	175.9
27.5°	260.0	245.3	220.7	205.3	194.8	189.9	187.8	187.1	187.8	188.5	187.1
30°	282.4	264.9	237.6	219.3	206.0	201.1	199.0	199.0	199.7	199.7	199.7
32.5°	313.2	291.5	256.5	234.8	221.4	215.1	214.4	214.4	213.0	213.7	213.0
35°	349.7	323.8	282.4	255.8	240.4	233.4	231.3	229.9	229.9	229.9	229.9
37.5°	388.9	357.4	309.0	279.6	262.1	253.7	249.5	247.4	248.1	248.1	246.7
40°	433.1	396.6	340.6	304.1	288.0	275.4	270.5	268.4	267.7	266.3	262.8
42.5°	491.9	445.7	379.1	335.7	311.8	302.7	293.6	289.4	285.9	285.2	279.6
45°	561.3	511.6	428.9	380.5	349.0	328.7	319.6	312.5	306.2	304.1	299.9
47.5°	618.8	558.5	473.0	419.1	384.0	363.0	348.3	337.8	329.4	324.5	325.9
50°	683.3	616.0	523.5	455.5	421.2	398.7	384.7	367.2	354.6	346.9	349.7
52.5°	789.1	714.1	593.6	518.6	459.7	437.3	419.1	398.7	381.9	371.4	377.0
55°	818.5	740.0	627.2	558.5	513.0	488.4	461.1	435.9	412.1	398.0	398.0
57.5°	817.1	737.9	630.0	569.7	543.1	525.6	505.3	473.7	442.9	422.6	421.2
60°	806.6	727.4	623.0	562.0	541.7	545.2	536.8	510.2	473.7	445.7	441.5
62.5°	833.9	753.3	641.2	569.7	540.3	543.8	550.8	535.4	499.7	464.6	460.4
65°	816.4	735.1	626.5	564.1	548.0	548.7	553.6	542.4	513.7	481.4	474.4
67.5°	744.9	673.4	576.7	522.8	512.3	524.9	540.3	536.8	512.3	490.5	482.1
70°	654.5	591.5	508.8	463.9	456.2	474.4	500.4	505.3	498.3	484.2	481.4
72.5°	554.3	499.0	428.9	395.2	392.4	406.5	432.4	449.2	454.1	460.4	460.4
75°	445.0	401.5	341.3	318.2	318.2	333.6	354.6	376.3	389.6	406.5	411.4
77.5°	337.8	299.9	257.2	237.6	237.6	251.6	267.7	285.2	307.6	330.8	327.3
80°	231.3	206.7	175.9	166.1	164.0	171.7	185.7	197.6	217.2	232.7	241.8
82.5°	132.4	124.0	105.8	97.4	96.7	106.5	116.3	117.7	131.0	140.2	143.0
85°	63.1	55.4	51.9	46.3	47.0	49.1	52.6	55.4	58.9	62.4	62.4
87.5°	14.0	13.3	11.9	12.6	12.6	11.2	12.6	11.9	13.3	14.0	12.6
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)