

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: P198222

Luminaire Tested: **TT-C2-LED-E1-T4-PM-CG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198222
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-T4-PM-CG
Description: TOPTIER LED AREA/SITE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3763.6 lumens
Efficiency: N/A
Efficacy: 90.9 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): 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

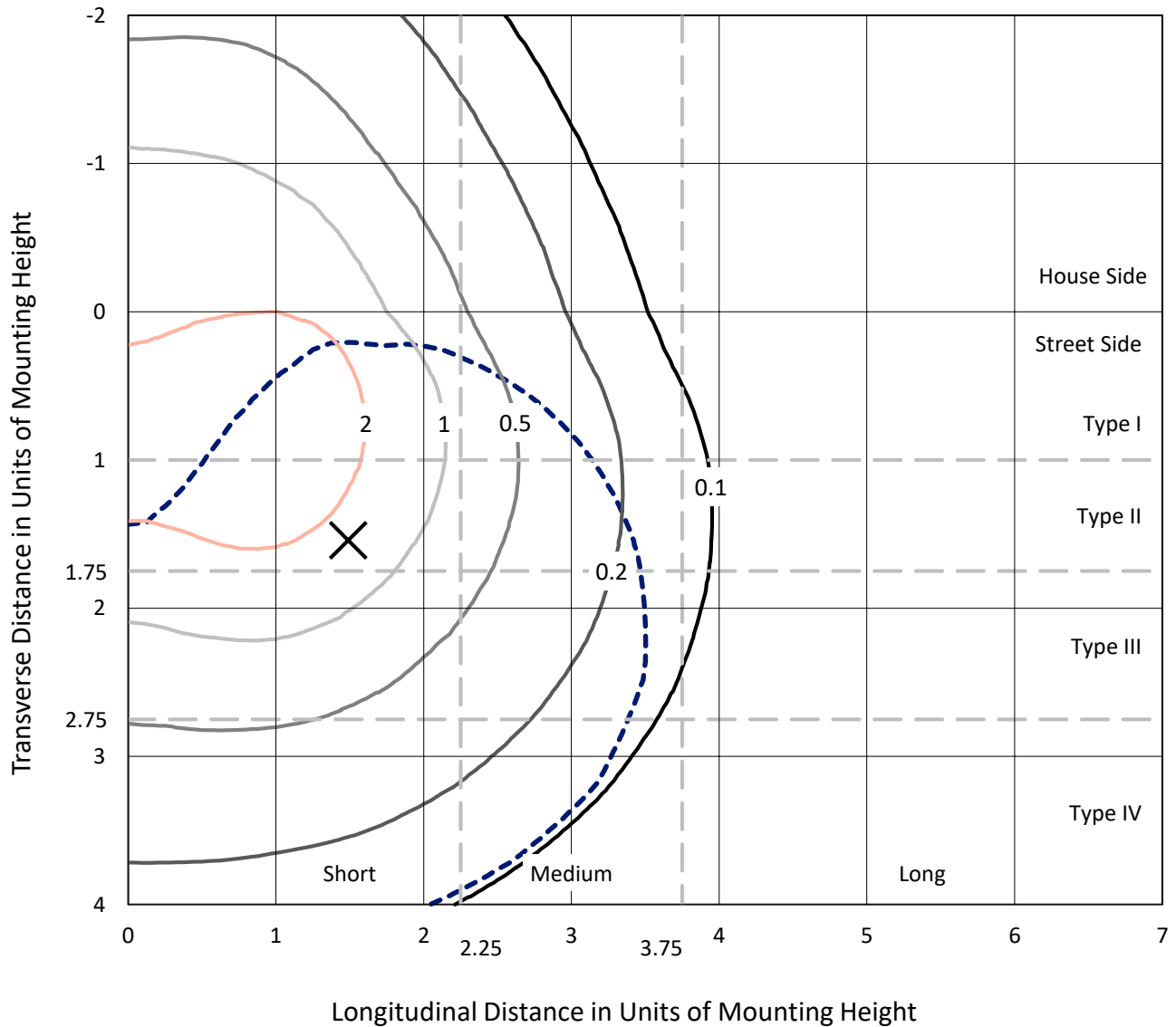


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

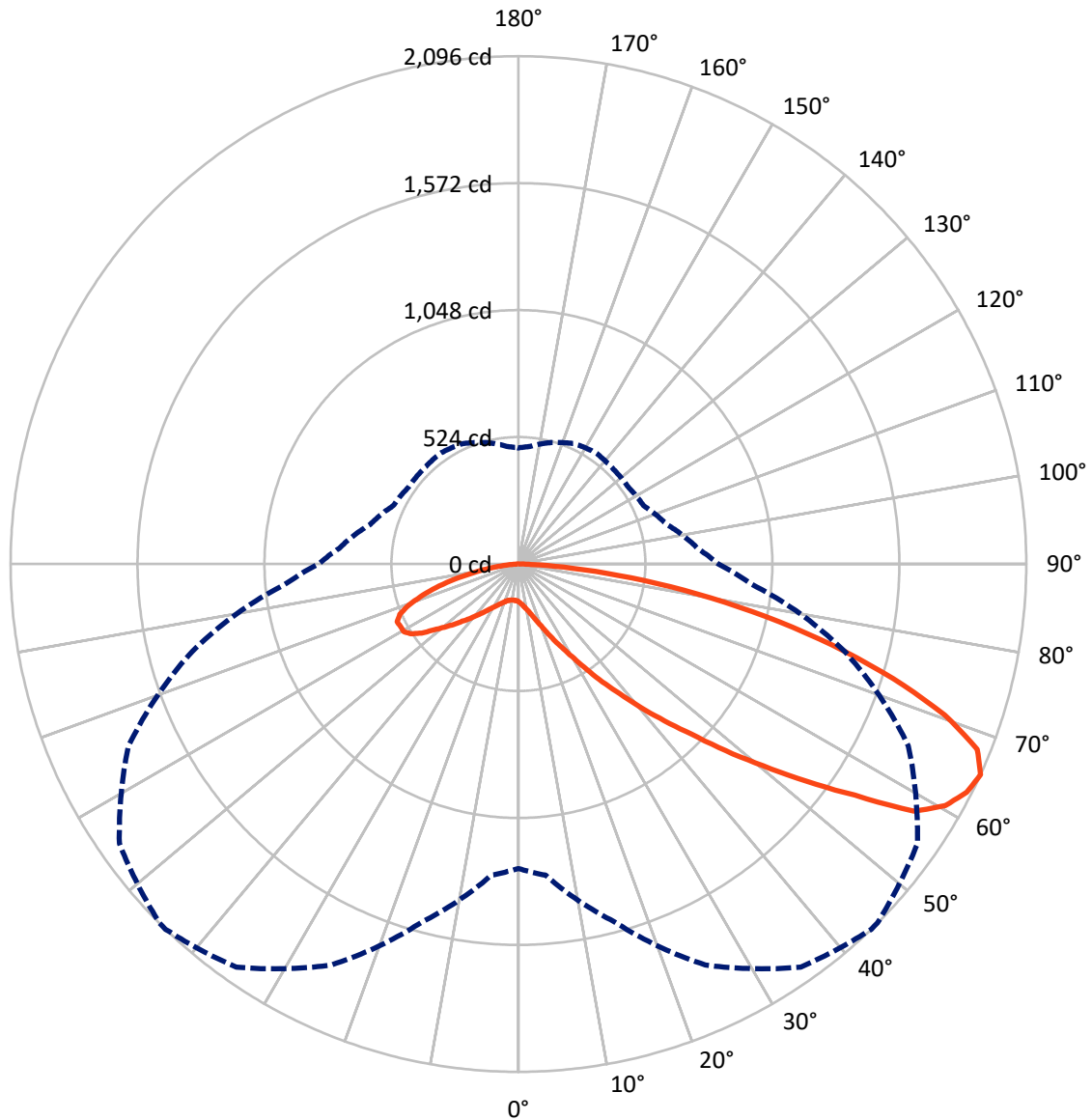


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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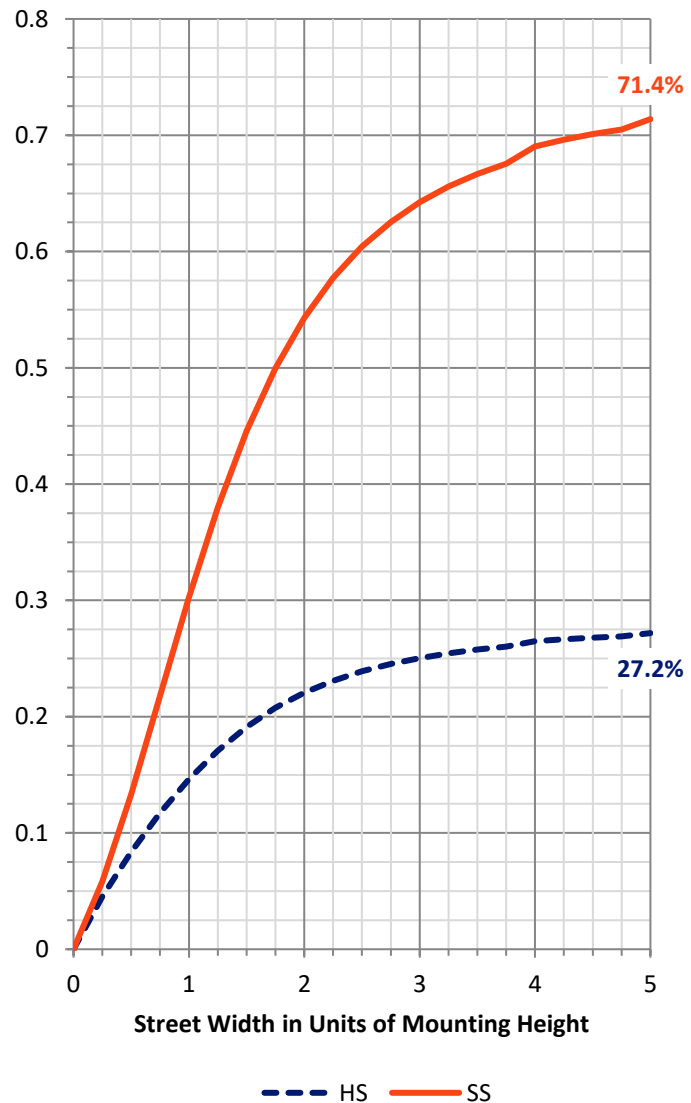
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1032.1	0.0	1032.1
	% Fixture	27.4	0.0	27.4
Street Side	Lumens	2731.5	0.0	2731.5
	% Fixture	72.6	0.0	72.6
Total	Lumens	3763.6	0.0	3763.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.6	0.4
10°-20°	54.8	1.5
20°-30°	122.8	3.3
30°-40°	250.6	6.7
40°-50°	481.8	12.8
50°-60°	837.0	22.2
60°-70°	1071.9	28.5
70°-80°	767.6	20.4
80°-90°	161.5	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°	3763.6	100.0
0°-180°	3763.6	100.0



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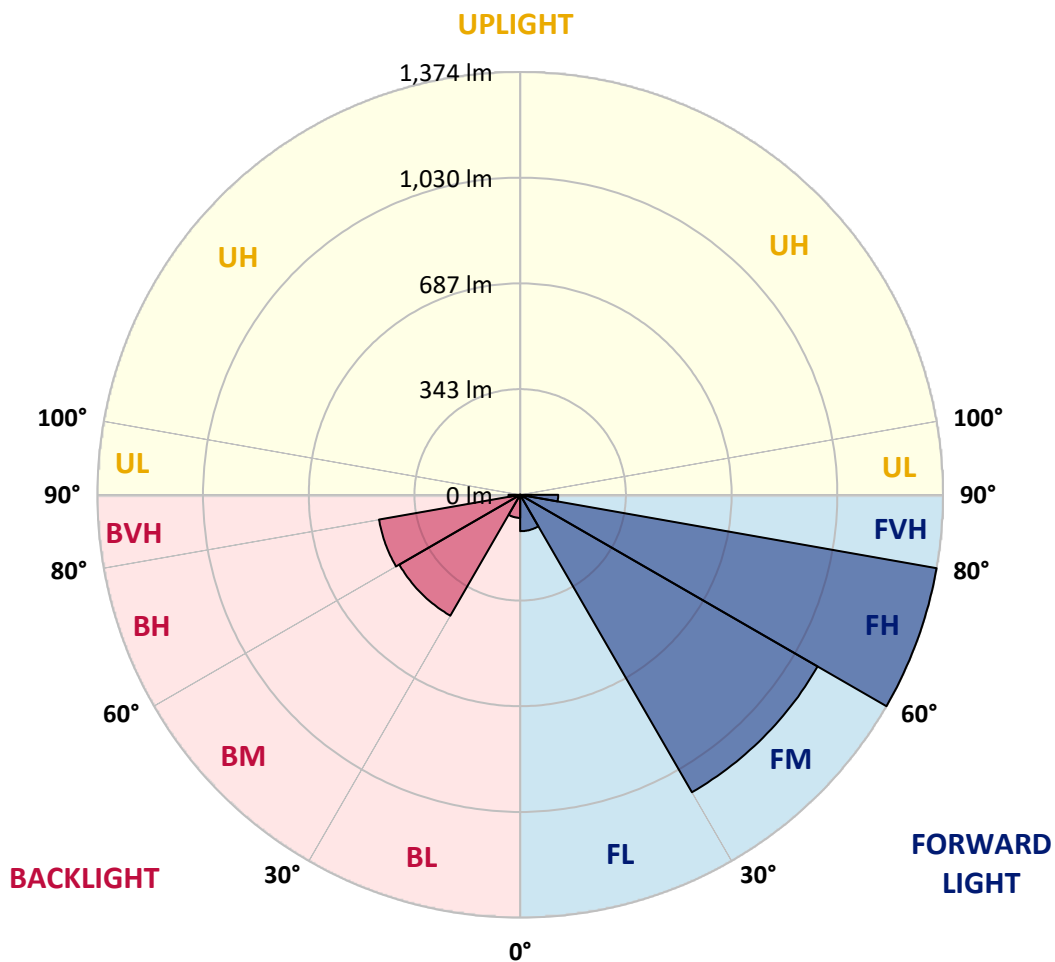
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.3	3.1			
FM (30°-60°)	1115.9	29.7			
FH (60°-80°)	1373.8	36.5			G1/1800
FVH (80°-90°)	123.4	3.3			G2/225
BL (0°-30°)	75.0	2.0	B0/110		
BM (30°-60°)	453.4	12.0	B1/1000		
BH (60°-80°)	465.7	12.4	B1/500		G1/500
BVH (80°-90°)	38.0	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°	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9
2.5°	163.4	163.4	163.4	162.7	162.0	161.3	161.3	160.6	159.9	159.2	157.8
5°	173.3	172.6	172.6	171.2	170.5	169.1	169.1	167.7	165.5	163.4	161.3
7.5°	183.9	184.6	183.9	182.5	180.4	179.0	178.3	175.5	172.6	169.1	165.5
10°	196.7	197.4	197.4	196.0	193.8	190.3	190.3	186.1	181.8	177.6	171.2
12.5°	215.1	214.4	213.7	213.7	209.4	205.2	206.6	200.9	193.8	187.5	179.7
15°	232.1	233.5	234.9	231.3	228.5	224.3	223.6	216.5	208.7	199.5	189.6
17.5°	256.8	258.2	257.5	256.1	252.6	247.6	246.2	237.7	227.1	214.4	200.9
20°	288.6	289.4	286.5	285.1	282.3	275.9	273.8	263.9	249.7	232.1	215.8
22.5°	324.0	321.9	321.2	319.8	319.1	312.0	311.3	296.4	275.9	256.1	232.8
25°	354.4	356.6	358.0	360.1	359.4	352.3	352.3	335.3	310.6	283.7	254.0
27.5°	389.8	393.4	397.6	402.6	401.8	396.9	399.7	383.4	350.2	317.7	279.5
30°	428.0	433.7	440.8	452.8	456.3	451.4	451.4	430.8	398.3	354.4	307.7
32.5°	479.0	481.8	488.2	507.3	517.9	517.9	517.2	494.5	454.9	399.7	341.7
35°	532.0	532.7	549.7	573.1	586.5	597.1	592.2	570.2	525.7	457.7	384.9
37.5°	586.5	587.2	611.3	638.8	669.3	677.8	682.0	662.2	604.9	522.1	432.3
40°	641.0	650.2	678.5	716.7	761.9	778.9	776.8	759.1	690.5	592.9	483.9
42.5°	696.2	715.3	744.3	803.0	856.7	884.3	885.8	870.2	798.0	685.5	551.1
45°	761.9	774.0	818.5	886.5	963.6	999.7	1003.2	996.1	928.2	798.7	631.8
47.5°	830.6	841.9	895.7	981.3	1077.5	1150.3	1156.7	1150.3	1066.2	894.2	703.9
50°	905.6	909.8	974.2	1088.8	1228.2	1308.1	1312.4	1315.2	1201.3	1017.3	774.0
52.5°	975.6	977.0	1059.8	1209.8	1388.1	1487.8	1492.8	1487.1	1397.3	1171.6	905.6
55°	1044.9	1046.3	1151.1	1348.4	1560.0	1683.8	1714.9	1717.7	1555.0	1270.6	940.9
57.5°	1109.3	1115.7	1258.6	1486.4	1753.8	1924.3	1922.2	1874.8	1647.7	1308.1	948.7
60°	1167.3	1187.8	1361.2	1641.3	1910.9	2023.4	2034.7	1930.7	1680.2	1324.4	942.4
62.5°	1216.8	1239.5	1458.1	1764.4	2009.2	2075.7	2071.5	1953.3	1726.2	1381.0	984.1
65°	1256.5	1289.0	1527.4	1825.3	2030.4	2095.5	2094.8	2009.9	1775.0	1393.0	967.1
67.5°	1278.4	1328.6	1538.0	1826.7	2014.2	2041.8	2031.9	1926.4	1683.8	1315.9	885.0
70°	1290.4	1323.0	1512.6	1746.0	1874.1	1866.3	1868.4	1740.4	1526.7	1187.1	786.7
72.5°	1246.6	1273.4	1406.5	1572.0	1656.2	1616.6	1635.0	1517.5	1327.2	1012.4	662.9
75°	1137.6	1150.3	1214.7	1320.1	1365.4	1338.5	1338.5	1253.6	1071.1	830.6	535.6
77.5°	952.3	956.5	981.3	1037.9	1050.6	1042.8	1040.7	967.8	822.1	634.6	400.4
80°	680.6	696.2	706.8	731.5	758.4	747.1	732.2	673.5	575.2	434.4	275.9
82.5°	422.4	423.8	434.4	450.7	454.9	469.8	467.6	420.9	347.4	259.6	161.3
85°	197.4	193.8	203.8	215.1	221.4	220.7	225.7	203.0	160.6	118.9	73.6
87.5°	31.1	43.9	46.7	46.0	50.9	51.6	53.8	48.8	33.3	23.3	17.7
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°	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9
2.5°	157.1	157.1	155.6	154.2	152.8	152.1	151.4	150.7	150.7	150.0	150.0
5°	160.6	159.2	157.1	154.9	152.8	151.4	150.0	149.3	147.9	147.2	147.2
7.5°	163.4	162.0	158.5	155.6	152.8	150.7	148.6	147.2	146.4	145.7	145.7
10°	169.1	166.3	162.0	157.1	153.5	150.7	148.6	147.2	146.4	145.7	145.7
12.5°	176.9	172.6	165.5	160.6	155.6	152.1	150.0	148.6	147.2	147.2	146.4
15°	185.4	180.4	171.9	164.1	158.5	154.9	152.1	151.4	150.0	150.0	150.0
17.5°	195.3	189.6	179.0	169.8	163.4	159.2	156.4	154.9	154.2	154.9	155.6
20°	208.0	200.2	186.8	176.9	169.1	164.8	162.7	160.6	160.6	162.0	162.0
22.5°	222.9	213.7	197.4	185.4	177.6	171.9	170.5	169.1	168.4	169.8	169.8
25°	238.4	227.8	208.7	195.3	186.1	181.1	179.7	178.3	179.0	179.7	177.6
27.5°	262.5	247.6	222.9	207.3	196.7	191.7	189.6	188.9	189.6	190.3	188.9
30°	285.1	267.4	239.8	221.4	208.0	203.0	200.9	200.9	201.6	201.6	201.6
32.5°	316.2	294.3	258.9	237.0	223.6	217.2	216.5	216.5	215.1	215.8	215.1
35°	353.0	326.9	285.1	258.2	242.7	235.6	233.5	232.1	232.1	232.1	232.1
37.5°	392.6	360.8	312.0	282.3	264.6	256.1	251.9	249.7	250.4	250.4	249.0
40°	437.2	400.4	343.8	307.0	290.8	278.0	273.1	271.0	270.3	268.8	265.3
42.5°	496.6	450.0	382.7	338.9	314.8	305.6	296.4	292.2	288.6	287.9	282.3
45°	566.7	516.5	433.0	384.2	352.3	331.8	322.6	315.5	309.2	307.0	302.8
47.5°	624.7	563.9	477.5	423.1	387.7	366.5	351.6	341.0	332.5	327.6	329.0
50°	689.8	621.9	528.5	459.9	425.2	402.6	388.4	370.7	358.0	350.2	353.0
52.5°	796.6	720.9	599.2	523.5	464.1	441.5	423.1	402.6	385.6	375.0	380.6
55°	826.3	747.1	633.2	563.9	517.9	493.1	465.5	440.0	416.0	401.8	401.8
57.5°	824.9	745.0	636.0	575.2	548.3	530.6	510.1	478.3	447.1	426.6	425.2
60°	814.3	734.4	628.9	567.4	546.9	550.4	541.9	515.0	478.3	450.0	445.7
62.5°	841.9	760.5	647.3	575.2	545.5	549.0	556.1	540.5	504.4	469.1	464.8
65°	824.2	742.1	632.5	569.5	553.2	553.9	558.9	547.6	518.6	486.0	479.0
67.5°	752.0	679.9	582.2	527.8	517.2	529.9	545.5	541.9	517.2	495.2	486.7
70°	660.8	597.1	513.6	468.3	460.6	479.0	505.1	510.1	503.0	488.9	486.0
72.5°	559.6	503.7	433.0	399.0	396.2	410.3	436.5	453.5	458.4	464.8	464.8
75°	449.2	405.4	344.5	321.2	321.2	336.8	358.0	379.9	393.4	410.3	415.3
77.5°	341.0	302.8	259.6	239.8	239.8	254.0	270.3	287.9	310.6	333.9	330.4
80°	233.5	208.7	177.6	167.7	165.5	173.3	187.5	199.5	219.3	234.9	244.1
82.5°	133.7	125.2	106.8	98.3	97.6	107.5	117.4	118.9	132.3	141.5	144.3
85°	63.7	55.9	52.4	46.7	47.4	49.5	53.1	55.9	59.4	63.0	63.0
87.5°	14.1	13.4	12.0	12.7	12.7	11.3	12.7	12.0	13.4	14.1	12.7
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)