

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: P198211

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34708)
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-MS/DIM-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3485.4 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

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



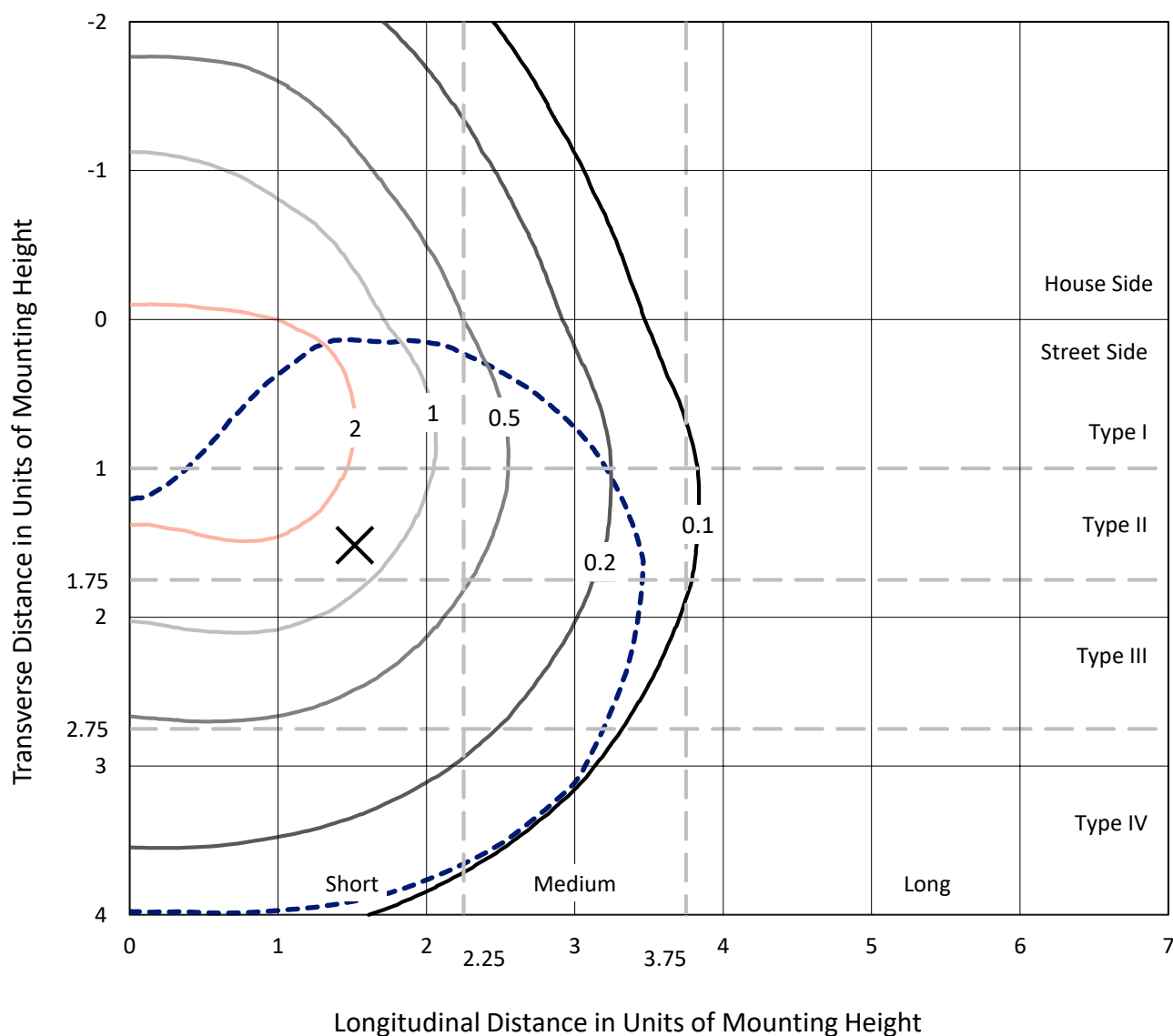
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

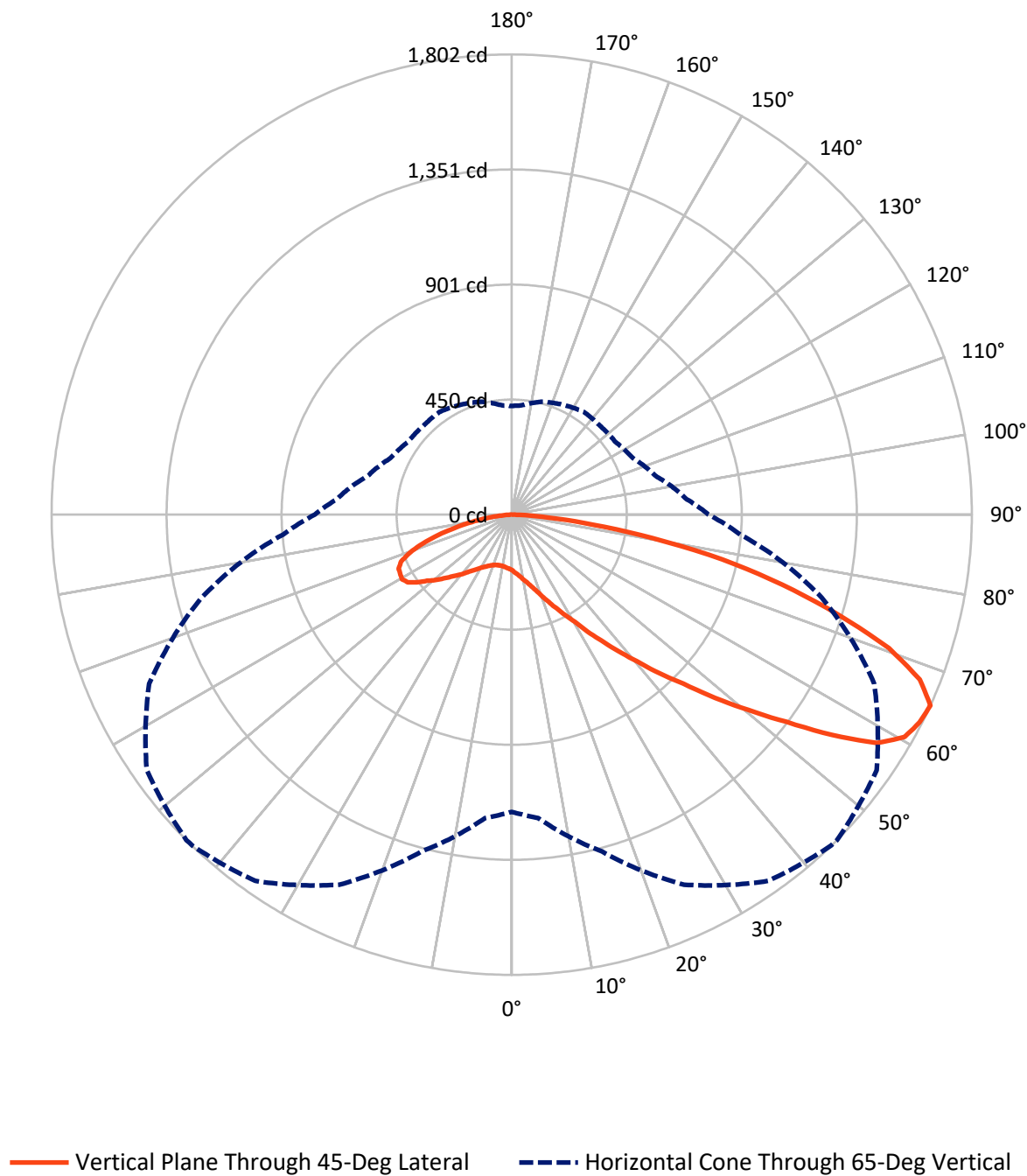


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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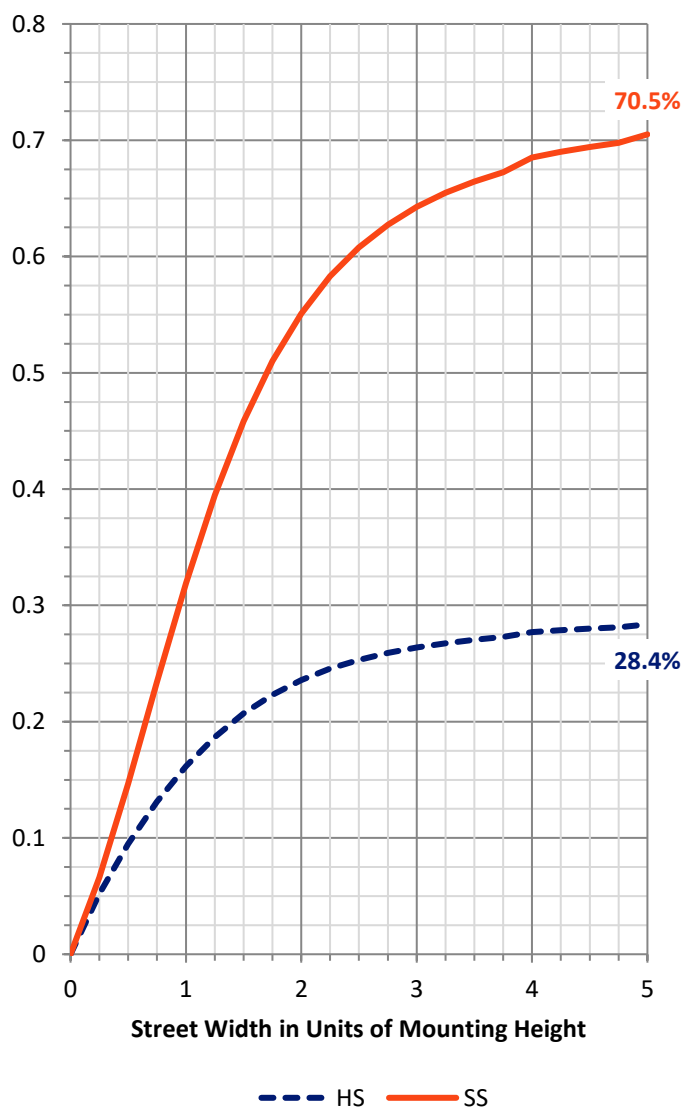
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	998.0	0.0	998.0
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	2487.4	0.0	2487.4
	% Fixture	71.4	0.0	71.4
Total	Lumens	3485.4	0.0	3485.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.5	0.6
10°-20°	71.4	2.0
20°-30°	144.9	4.2
30°-40°	266.6	7.6
40°-50°	472.2	13.5
50°-60°	774.6	22.2
60°-70°	951.7	27.3
70°-80°	654.8	18.8
80°-90°	127.8	3.7
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°	3485.4	100.0
0°-180°	3485.4	100.0

Coefficient of Utilization



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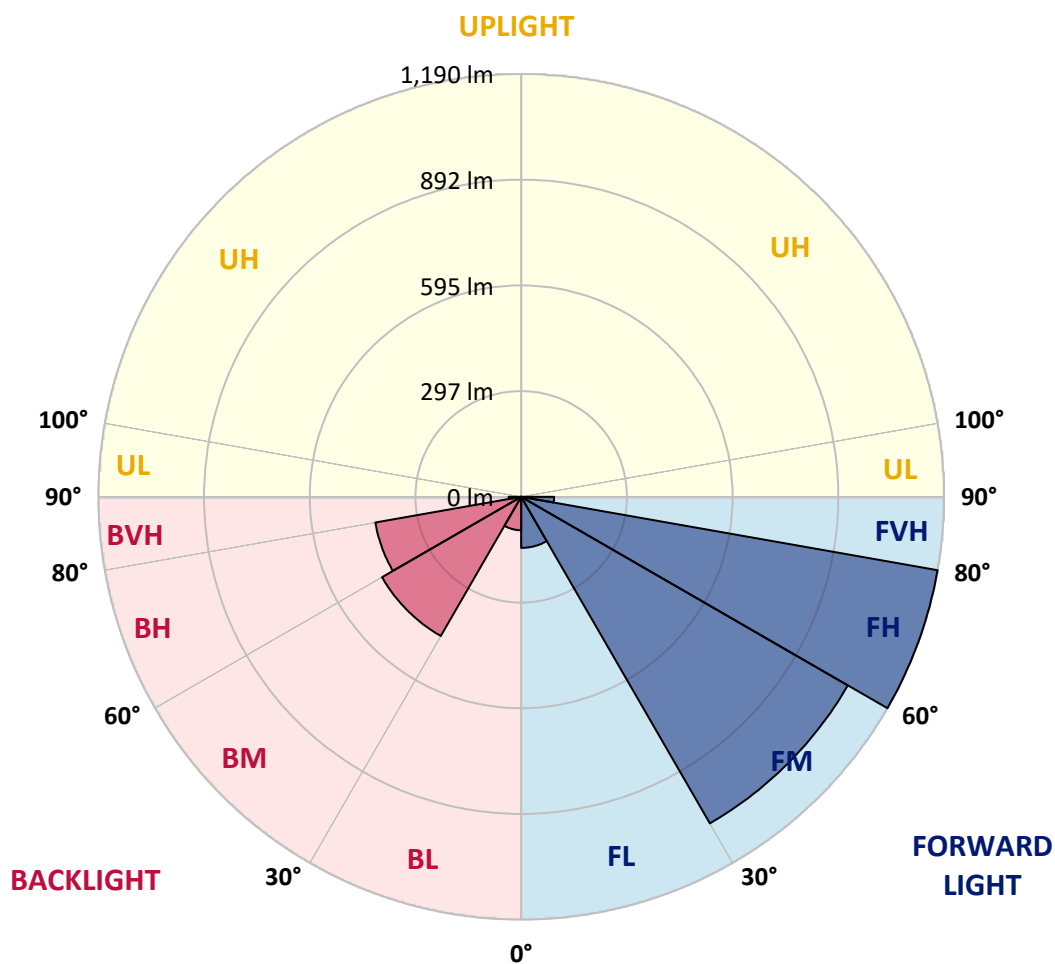
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	143.7	4.1			
FM	(30°-60°)	1061.1	30.4			
FH	(60°-80°)	1189.7	34.1			G1/1800
FVH	(80°-90°)	92.8	2.7			G1/100
BL	(0°-30°)	94.0	2.7	B0/110		
BM	(30°-60°)	452.3	13.0	B1/1000		
BH	(60°-80°)	416.8	12.0	B1/500		G1/500
BVH	(80°-90°)	35.0	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-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2
2.5°	229.2	229.2	228.5	227.8	227.1	226.4	226.4	224.9	223.5	222.1	220.7
5°	241.1	240.4	240.4	239.7	238.3	235.5	234.8	233.4	230.6	227.1	224.2
7.5°	253.7	253.7	253.7	251.6	248.8	246.7	245.3	242.5	238.3	233.4	228.5
10°	268.4	269.1	267.7	266.3	263.5	259.3	259.3	253.7	247.4	241.1	234.8
12.5°	285.9	286.6	286.6	283.8	278.2	274.7	273.3	267.0	259.3	250.9	241.8
15°	304.1	306.9	305.5	304.1	297.8	292.9	291.5	281.7	273.3	262.1	250.9
17.5°	332.9	331.5	328.7	325.2	321.7	314.6	313.2	302.7	290.1	276.1	261.4
20°	359.5	359.5	356.7	353.9	349.7	339.9	341.3	327.3	310.4	293.6	274.0
22.5°	388.9	389.6	387.5	384.7	381.2	373.5	371.4	356.7	335.0	312.5	289.4
25°	418.4	419.8	421.2	421.2	416.3	407.2	405.7	386.8	364.4	335.0	306.9
27.5°	453.4	456.9	455.5	456.9	454.8	444.3	444.3	424.7	399.4	363.0	326.6
30°	486.3	490.5	492.6	498.3	498.3	491.9	487.0	468.8	438.7	395.9	351.8
32.5°	529.8	529.8	534.0	545.9	552.2	543.1	545.9	525.6	485.6	435.2	380.5
35°	573.9	573.9	581.6	597.8	604.1	606.2	606.2	580.9	541.0	480.7	415.6
37.5°	620.2	621.6	636.3	658.0	676.2	674.1	677.0	656.6	609.7	534.7	456.2
40°	666.4	670.6	693.8	719.0	749.8	759.6	755.4	742.8	684.0	598.5	501.8
42.5°	716.9	724.6	750.5	789.8	822.7	849.3	850.0	829.7	771.6	672.7	556.4
45°	769.5	781.4	808.7	859.9	913.1	944.6	943.9	946.0	887.9	765.2	626.5
47.5°	829.7	837.4	876.0	938.3	1009.8	1072.9	1072.2	1070.1	995.1	850.7	681.9
50°	890.0	894.2	946.7	1037.1	1133.2	1194.8	1202.5	1210.2	1108.6	958.0	749.8
52.5°	952.4	955.2	1020.3	1129.0	1266.3	1357.4	1347.6	1351.1	1274.0	1097.4	857.8
55°	1012.6	1013.3	1095.3	1248.1	1414.2	1508.1	1522.8	1538.9	1409.3	1173.1	890.0
57.5°	1064.5	1070.1	1179.4	1367.2	1565.5	1693.8	1686.8	1666.4	1484.2	1203.2	894.9
60°	1109.3	1122.6	1262.8	1477.9	1681.2	1759.7	1767.4	1698.7	1508.1	1215.8	889.3
62.5°	1142.3	1164.0	1335.7	1562.0	1748.4	1796.8	1791.9	1712.7	1548.0	1265.6	923.6
65°	1163.3	1192.0	1365.1	1598.5	1750.5	1800.3	1801.7	1744.2	1566.2	1257.2	899.1
67.5°	1165.4	1206.0	1356.0	1573.2	1717.6	1730.9	1723.2	1638.4	1482.1	1180.1	829.0
70°	1149.3	1179.4	1311.2	1477.9	1579.6	1571.8	1566.9	1478.6	1330.8	1066.6	738.6
72.5°	1086.2	1107.9	1198.3	1315.4	1360.9	1356.7	1336.4	1269.1	1150.0	913.1	625.1
75°	960.8	975.5	1015.4	1079.2	1121.2	1106.5	1093.9	1028.7	929.9	745.6	496.1
77.5°	790.5	774.4	794.7	819.9	840.9	845.8	843.0	776.5	705.0	561.3	377.7
80°	553.6	548.7	546.6	557.8	576.7	569.7	558.5	532.6	476.5	382.6	264.9
82.5°	328.7	323.1	321.0	326.6	316.8	318.2	318.9	292.2	277.5	233.4	152.1
85°	145.1	145.1	141.6	141.6	140.9	141.6	145.1	136.0	126.8	105.8	72.9
87.5°	21.7	19.6	27.3	25.2	29.4	33.6	30.8	29.4	24.5	18.9	14.7
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°	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2
2.5°	220.0	219.3	217.2	215.8	213.7	212.3	210.9	210.2	210.2	209.5	210.2
5°	222.8	221.4	217.9	215.1	212.3	210.2	208.1	206.0	204.6	203.9	203.9
7.5°	225.7	223.5	218.6	214.4	210.2	206.7	203.9	202.5	200.4	199.7	199.0
10°	230.6	227.8	220.7	214.4	209.5	204.6	201.1	199.0	197.6	196.9	196.9
12.5°	237.6	232.7	224.2	216.5	209.5	203.9	199.7	196.9	195.5	194.1	194.8
15°	244.6	239.0	228.5	217.9	210.2	204.6	199.7	196.9	194.8	194.1	193.4
17.5°	253.7	247.4	234.8	222.8	213.0	206.0	201.1	198.3	196.2	195.5	195.5
20°	265.6	257.2	241.1	227.8	217.2	209.5	203.9	201.1	199.0	199.0	199.0
22.5°	277.5	267.0	248.1	233.4	222.1	213.7	208.8	206.0	203.9	203.2	203.9
25°	291.5	279.6	257.9	240.4	228.5	220.7	215.8	212.3	210.2	210.2	210.2
27.5°	310.4	296.4	268.4	250.9	236.9	228.5	222.8	220.7	219.3	218.6	217.9
30°	331.5	313.2	283.8	261.4	247.4	238.3	233.4	231.3	229.2	227.8	227.1
32.5°	356.7	335.7	298.5	275.4	259.3	250.2	245.3	242.5	240.4	239.7	239.7
35°	388.2	362.3	319.6	292.2	274.0	264.2	259.3	256.5	254.4	253.7	254.4
37.5°	419.8	389.6	342.0	310.4	291.5	279.6	274.7	271.2	269.8	268.4	269.1
40°	458.3	421.2	367.9	332.9	310.4	300.6	292.9	288.7	286.6	284.5	283.1
42.5°	505.3	463.2	400.1	356.7	332.9	319.6	311.8	306.9	302.7	301.3	299.2
45°	564.8	513.7	442.2	386.8	358.1	341.3	332.2	325.9	319.6	318.2	316.1
47.5°	613.9	558.5	477.2	421.9	388.9	366.5	353.9	344.8	337.1	335.7	333.6
50°	668.5	606.2	510.2	451.3	414.2	395.2	379.1	366.5	358.1	353.9	355.3
52.5°	761.7	683.3	569.0	491.9	445.0	420.5	407.9	391.0	377.7	371.4	372.8
55°	782.1	707.8	600.6	531.2	484.9	456.2	433.8	417.0	400.1	388.9	388.2
57.5°	781.4	705.0	598.5	536.8	504.6	485.6	466.0	438.7	418.4	403.6	402.9
60°	772.3	694.5	588.0	527.0	503.9	498.3	487.7	467.4	434.5	418.4	414.9
62.5°	794.7	713.4	596.4	525.6	496.9	494.0	491.2	478.6	449.2	426.8	423.3
65°	770.9	688.2	583.7	523.5	496.1	490.5	491.2	474.4	457.6	428.9	425.4
67.5°	701.5	630.7	534.0	482.1	468.8	470.2	475.1	467.4	448.5	424.7	421.9
70°	624.4	559.2	473.7	427.5	417.7	425.4	438.7	439.4	426.8	407.9	408.6
72.5°	525.6	470.2	401.5	364.4	360.9	367.2	377.7	390.3	386.8	381.2	381.9
75°	426.1	381.2	318.9	294.3	293.6	298.5	312.5	322.4	329.4	331.5	336.4
77.5°	316.1	290.1	242.5	222.1	220.0	226.4	241.8	250.2	260.0	267.7	274.7
80°	221.4	197.6	166.8	151.4	154.2	158.4	168.2	178.7	185.7	192.0	192.0
82.5°	129.6	117.0	99.5	92.5	93.9	100.2	102.3	111.4	112.1	116.3	119.1
85°	61.0	52.6	47.7	47.0	47.0	47.7	51.9	52.6	53.3	54.7	60.3
87.5°	12.6	12.6	12.6	12.6	12.6	14.7	15.4	16.8	16.1	16.8	16.1
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)