

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: P198195

Luminaire Tested: **TT-C1-LED-E1-DL-CG-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34709)
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-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2764.9 lumens
Efficiency: N/A
Efficacy: 82.5 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): 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

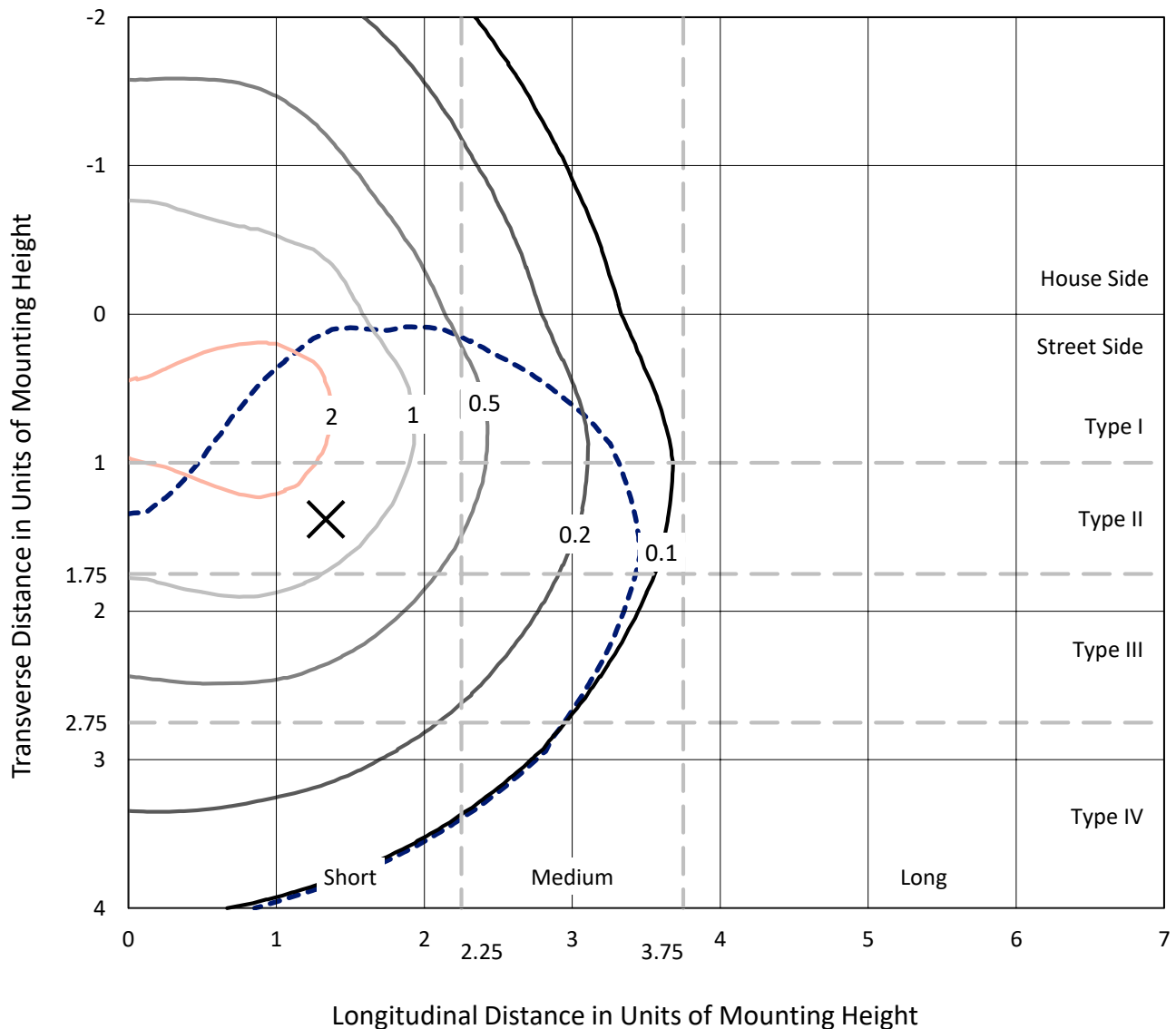


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

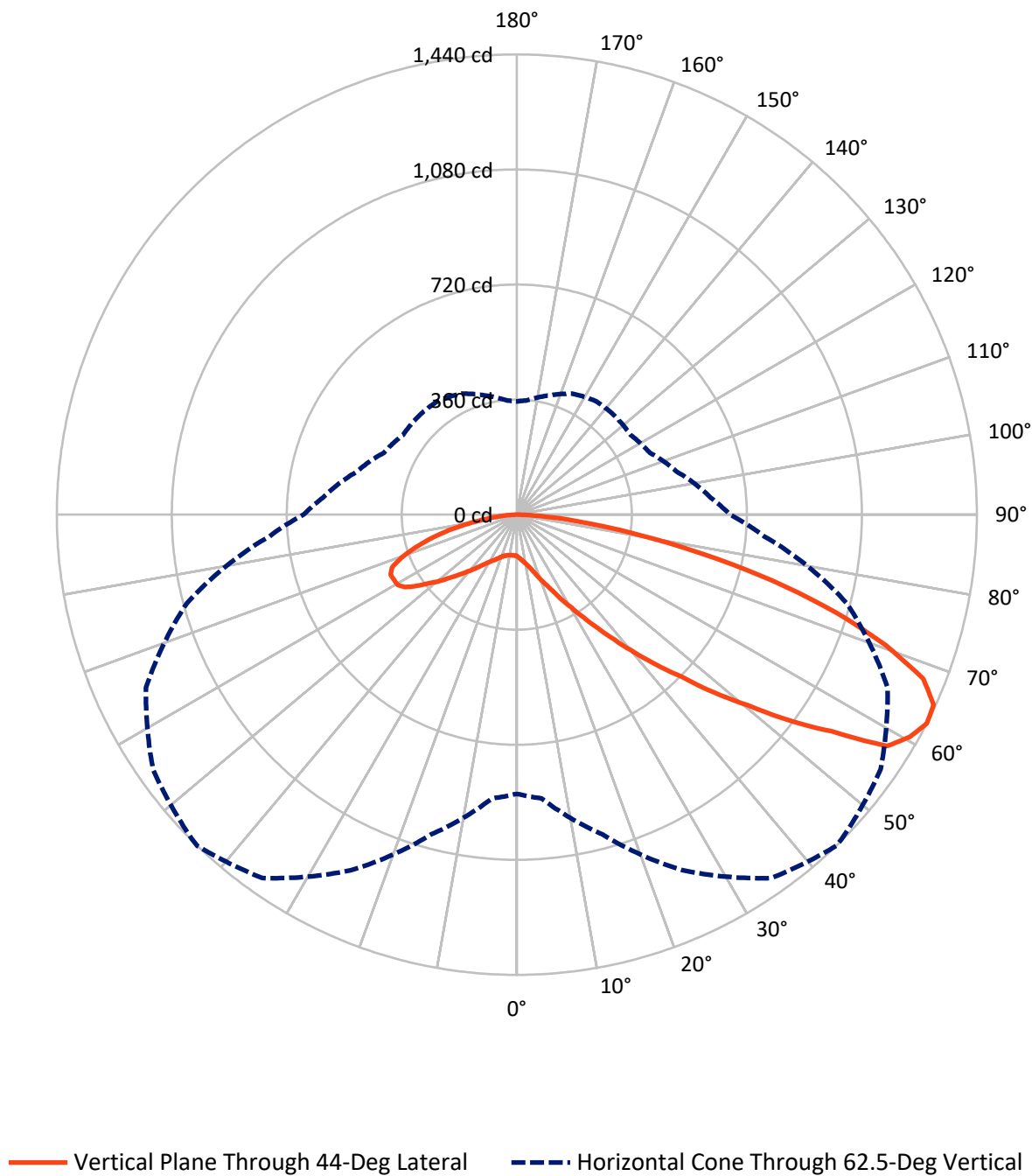


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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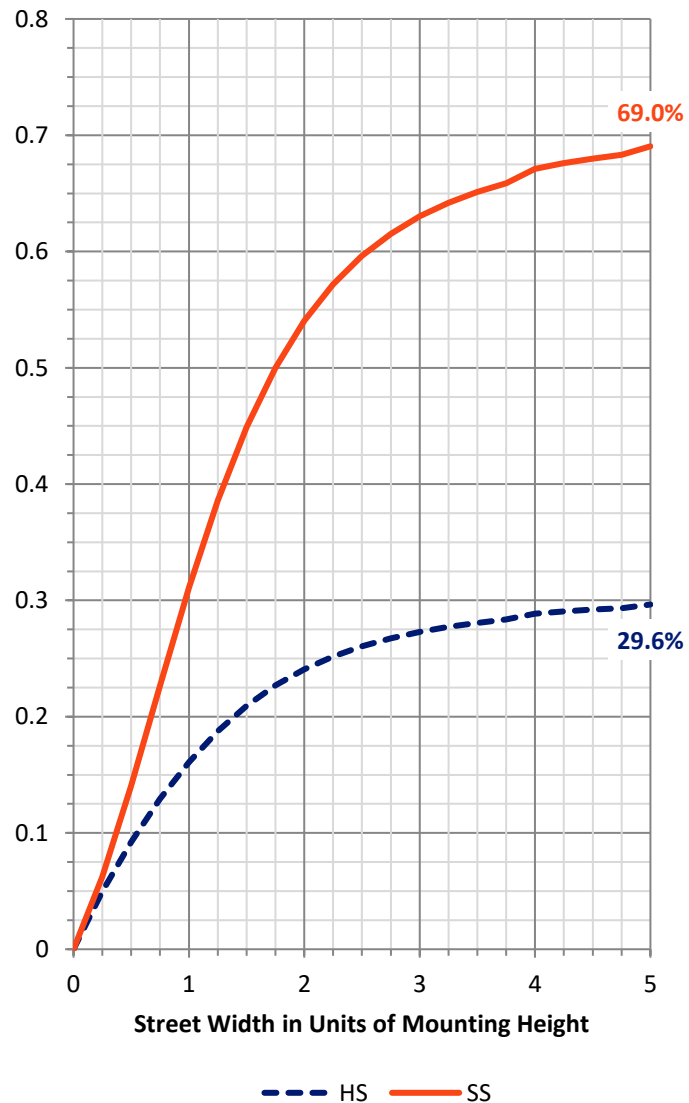
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	830.2	0.0	830.2
	% Fixture	30.0	0.0	30.0
Street Side	Lumens	1934.6	0.0	1934.6
	% Fixture	70.0	0.0	70.0
Total	Lumens	2764.9	0.0	2764.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.1	0.5
10°-20°	45.0	1.6
20°-30°	97.4	3.5
30°-40°	192.3	7.0
40°-50°	363.5	13.1
50°-60°	624.8	22.6
60°-70°	783.9	28.4
70°-80°	535.4	19.4
80°-90°	109.5	4.0
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°	2764.9	100.0
0°-180°	2764.9	100.0

Coefficient of Utilization



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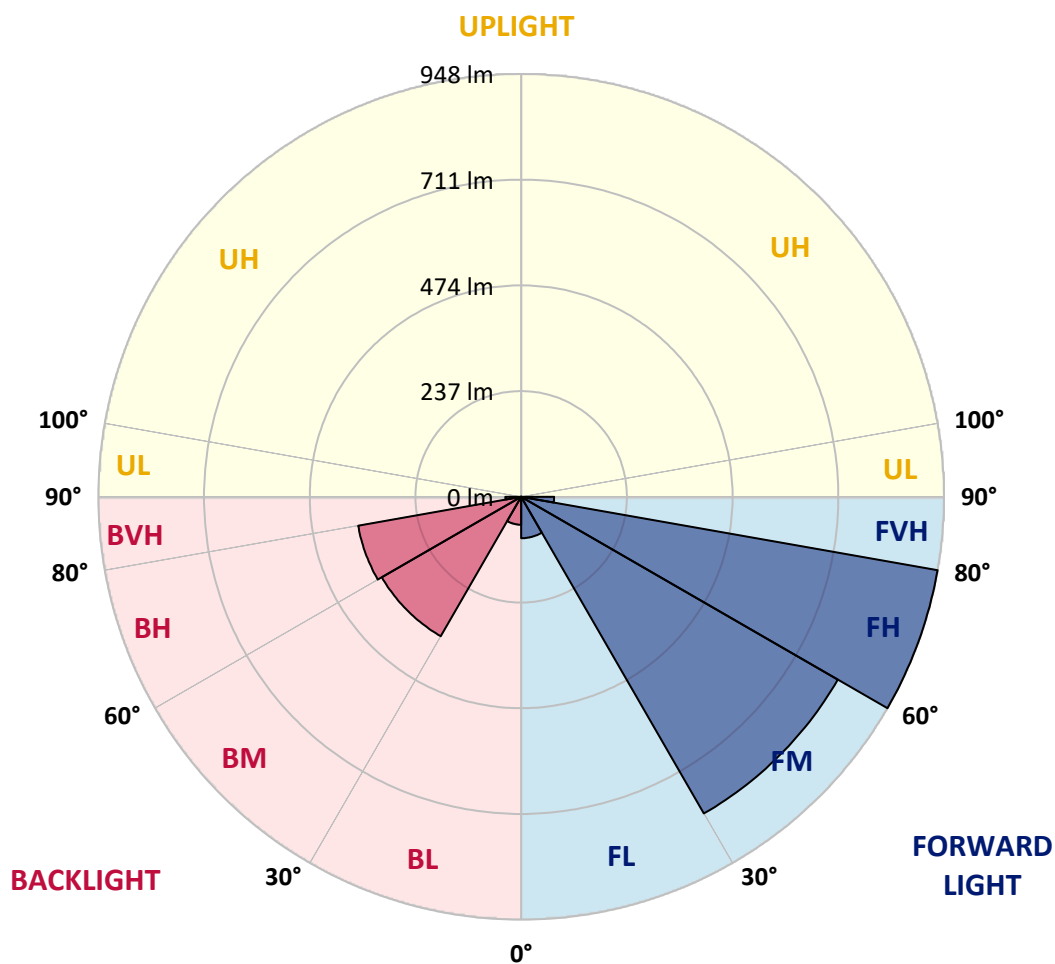
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	92.8	3.4			
FM	(30°-60°)	819.7	29.6			
FH	(60°-80°)	948.1	34.3			G1/1800
FVH	(80°-90°)	74.0	2.7			G1/100
BL	(0°-30°)	62.7	2.3	B0/110		
BM	(30°-60°)	360.8	13.0	B1/1000		
BH	(60°-80°)	371.1	13.4	B1/500		G1/500
BVH	(80°-90°)	35.6	1.3			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°	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8
2.5°	136.2	136.2	136.2	136.2	135.0	135.0	135.0	134.5	133.9	132.7	132.1
5°	143.2	143.8	143.2	142.6	141.4	140.9	140.3	139.7	138.0	136.2	134.5
7.5°	151.9	151.3	151.3	150.8	149.0	147.8	147.8	145.5	143.2	140.9	138.0
10°	161.2	161.8	161.8	160.1	158.9	156.6	156.6	153.1	150.2	146.7	143.2
12.5°	172.9	172.3	173.5	172.3	170.5	166.5	166.5	163.6	158.3	153.7	149.0
15°	187.4	187.4	188.0	185.7	183.9	179.9	181.0	173.5	168.8	163.6	156.0
17.5°	206.1	206.1	204.3	203.1	200.2	197.9	195.6	189.2	182.2	173.5	164.7
20°	227.0	227.6	224.7	224.7	221.2	218.3	216.5	209.0	198.5	186.8	175.8
22.5°	252.6	251.5	249.1	246.8	245.1	239.8	241.6	231.7	217.7	202.0	187.4
25°	273.0	274.7	274.7	276.5	273.6	267.8	269.5	257.3	241.0	222.4	202.0
27.5°	298.0	301.5	304.4	307.9	306.8	302.7	301.5	290.5	269.5	247.4	220.0
30°	325.4	330.6	332.9	339.3	341.1	337.6	337.0	326.0	305.6	272.4	242.7
32.5°	360.9	360.3	367.3	378.3	385.3	383.6	383.0	370.8	343.4	308.5	267.8
35°	395.2	396.4	404.5	421.4	432.5	436.0	435.4	422.6	395.2	351.6	300.9
37.5°	432.5	434.2	449.9	470.3	488.4	497.1	497.1	491.3	454.6	395.8	337.6
40°	469.1	477.3	495.3	521.5	551.8	566.4	565.8	556.5	522.7	456.9	376.0
42.5°	513.4	521.5	541.3	578.6	616.4	644.4	644.4	641.4	599.0	528.5	431.9
45°	557.0	564.0	588.5	635.6	690.9	723.5	727.6	738.1	708.4	609.4	496.5
47.5°	603.6	609.4	640.9	700.2	769.5	832.9	837.0	845.2	797.4	688.6	547.1
50°	650.2	652.5	698.5	778.2	876.6	937.1	950.5	966.8	900.5	784.0	604.2
52.5°	703.7	704.9	758.4	860.3	983.1	1071.6	1073.9	1085.6	1048.9	901.0	710.7
55°	750.9	752.6	821.3	952.3	1112.3	1197.3	1220.6	1254.4	1164.7	979.6	742.1
57.5°	794.5	801.5	895.8	1063.4	1237.5	1366.1	1362.0	1360.3	1232.8	1011.1	748.5
60°	837.0	849.8	970.3	1153.7	1329.4	1412.7	1417.3	1384.2	1250.9	1023.9	742.1
62.5°	873.7	891.1	1035.5	1227.6	1388.2	1440.0	1437.1	1390.0	1280.6	1068.7	777.1
65°	899.9	923.7	1065.2	1259.0	1383.6	1433.6	1437.7	1412.7	1306.2	1071.0	766.6
67.5°	913.3	947.0	1064.6	1238.1	1348.7	1372.5	1374.3	1328.3	1227.6	1014.0	701.4
70°	916.8	938.9	1036.1	1161.2	1227.6	1225.3	1222.3	1188.0	1091.4	904.5	623.4
72.5°	878.9	898.7	945.9	1022.7	1049.5	1043.7	1032.6	994.2	929.0	777.6	531.4
75°	795.7	802.7	804.4	826.0	827.1	828.9	816.1	791.0	745.1	628.6	424.3
77.5°	640.9	651.3	628.6	604.2	603.6	601.3	598.4	566.9	544.8	471.5	315.5
80°	466.8	462.2	443.5	415.6	397.0	391.2	387.7	378.9	365.5	323.0	219.4
82.5°	281.7	287.0	267.8	248.0	238.1	228.2	233.4	224.1	217.1	197.3	134.5
85°	126.3	126.3	122.2	117.0	108.8	109.4	110.6	107.1	102.4	92.5	64.6
87.5°	24.4	22.1	23.9	24.4	22.7	23.3	25.0	26.2	27.4	25.6	19.2
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°	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8
2.5°	132.1	131.5	131.0	129.8	128.6	128.1	127.5	126.9	126.9	126.3	126.3
5°	133.9	133.3	132.1	131.0	129.8	128.1	126.9	126.3	125.1	125.1	125.1
7.5°	136.8	135.6	133.3	131.5	129.8	128.1	126.9	125.7	125.1	124.0	124.0
10°	140.9	139.1	136.2	132.7	130.4	128.6	126.9	125.7	125.1	124.6	124.6
12.5°	146.7	143.8	139.1	135.6	132.1	129.8	128.1	126.9	126.3	125.7	125.7
15°	152.5	149.6	143.8	138.5	134.5	132.1	129.8	129.2	128.1	128.1	128.1
17.5°	160.7	156.0	149.0	143.2	138.5	135.0	133.3	131.5	131.5	132.1	132.1
20°	170.0	164.7	156.0	148.4	143.2	139.7	138.0	136.8	136.2	136.8	137.4
22.5°	181.0	173.5	162.4	155.4	149.6	145.5	143.8	142.6	142.0	143.2	142.6
25°	192.1	184.5	171.7	162.4	155.4	152.5	150.8	150.2	149.0	150.2	149.6
27.5°	210.7	200.2	182.8	170.5	164.1	160.7	158.3	157.2	157.2	157.2	156.6
30°	227.0	214.8	194.4	182.2	172.9	168.8	166.5	165.9	165.9	166.5	165.9
32.5°	249.7	234.6	210.7	194.4	185.7	179.3	176.9	176.4	176.4	175.8	176.4
35°	278.8	260.8	229.3	210.1	198.5	192.7	190.3	189.8	188.0	188.0	188.0
37.5°	310.2	286.4	251.5	230.5	215.9	208.4	204.9	202.6	201.4	200.2	200.2
40°	344.6	317.2	278.2	250.9	235.7	225.8	219.4	215.9	214.2	212.5	211.3
42.5°	389.4	359.1	309.1	275.9	256.7	245.6	236.3	232.8	228.2	226.4	222.9
45°	448.2	409.8	347.5	310.2	282.3	266.6	257.3	249.7	243.9	241.0	238.1
47.5°	494.2	448.8	384.7	339.9	312.6	292.2	279.4	267.2	260.2	254.9	253.8
50°	540.7	493.0	424.3	370.8	340.5	322.5	305.6	290.5	277.6	271.8	273.0
52.5°	631.0	573.3	477.3	412.7	370.2	349.8	332.4	313.7	299.2	289.9	290.5
55°	656.6	597.8	511.6	453.4	412.7	385.9	362.6	342.3	321.3	307.9	308.5
57.5°	654.8	596.6	514.6	464.5	437.7	418.5	397.0	369.0	344.6	327.1	324.8
60°	646.1	587.3	509.3	458.7	438.9	434.2	423.2	397.6	364.4	344.6	340.5
62.5°	667.6	609.4	518.6	458.7	434.8	435.4	433.1	417.3	385.9	358.6	353.9
65°	658.3	595.5	512.8	462.7	442.4	437.7	436.6	421.4	399.9	369.0	365.0
67.5°	603.0	548.3	473.2	429.0	420.3	424.3	430.2	420.3	398.7	375.4	370.2
70°	529.1	482.5	419.1	380.7	376.6	384.7	398.1	399.3	387.1	369.0	369.6
72.5°	446.4	409.2	355.6	329.5	324.8	332.4	349.2	357.4	358.0	351.6	351.0
75°	358.6	324.8	286.4	264.3	265.4	277.1	289.9	303.8	308.5	312.6	316.1
77.5°	267.2	249.1	216.5	202.0	204.9	217.7	225.8	234.6	244.5	249.1	252.6
80°	186.8	171.1	149.6	140.9	144.4	151.9	158.9	166.5	179.3	179.9	186.8
82.5°	117.0	106.5	95.5	92.5	93.1	96.0	104.2	108.8	114.7	116.4	115.2
85°	57.0	54.7	51.2	49.5	50.1	53.0	58.2	61.7	65.2	64.6	61.1
87.5°	18.0	18.6	19.2	19.8	19.8	21.5	23.3	23.3	24.4	23.9	23.9
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)