

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: P198187

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34703)
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3858.3 lumens
Efficiency: N/A
Efficacy: 93.2 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



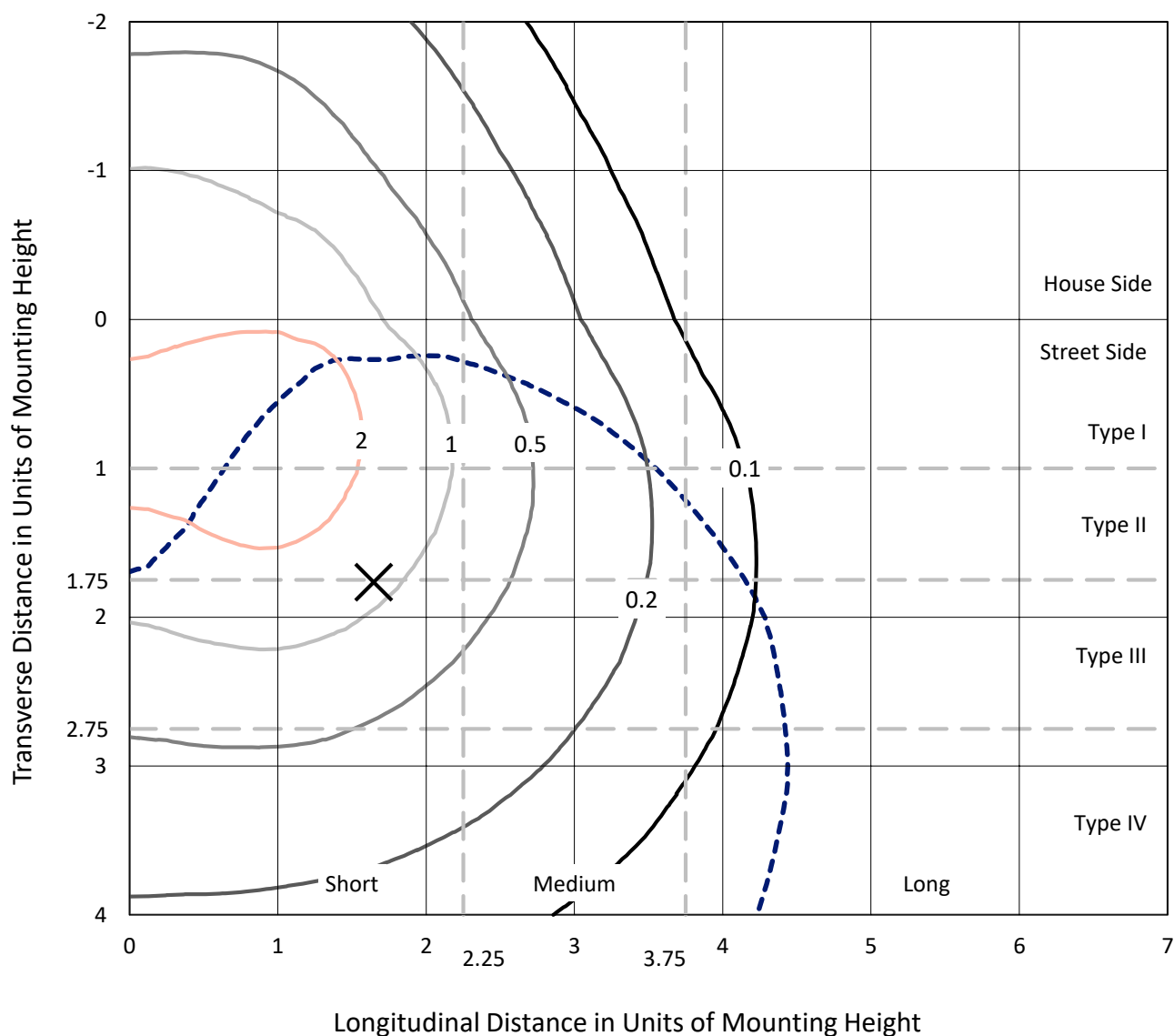
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

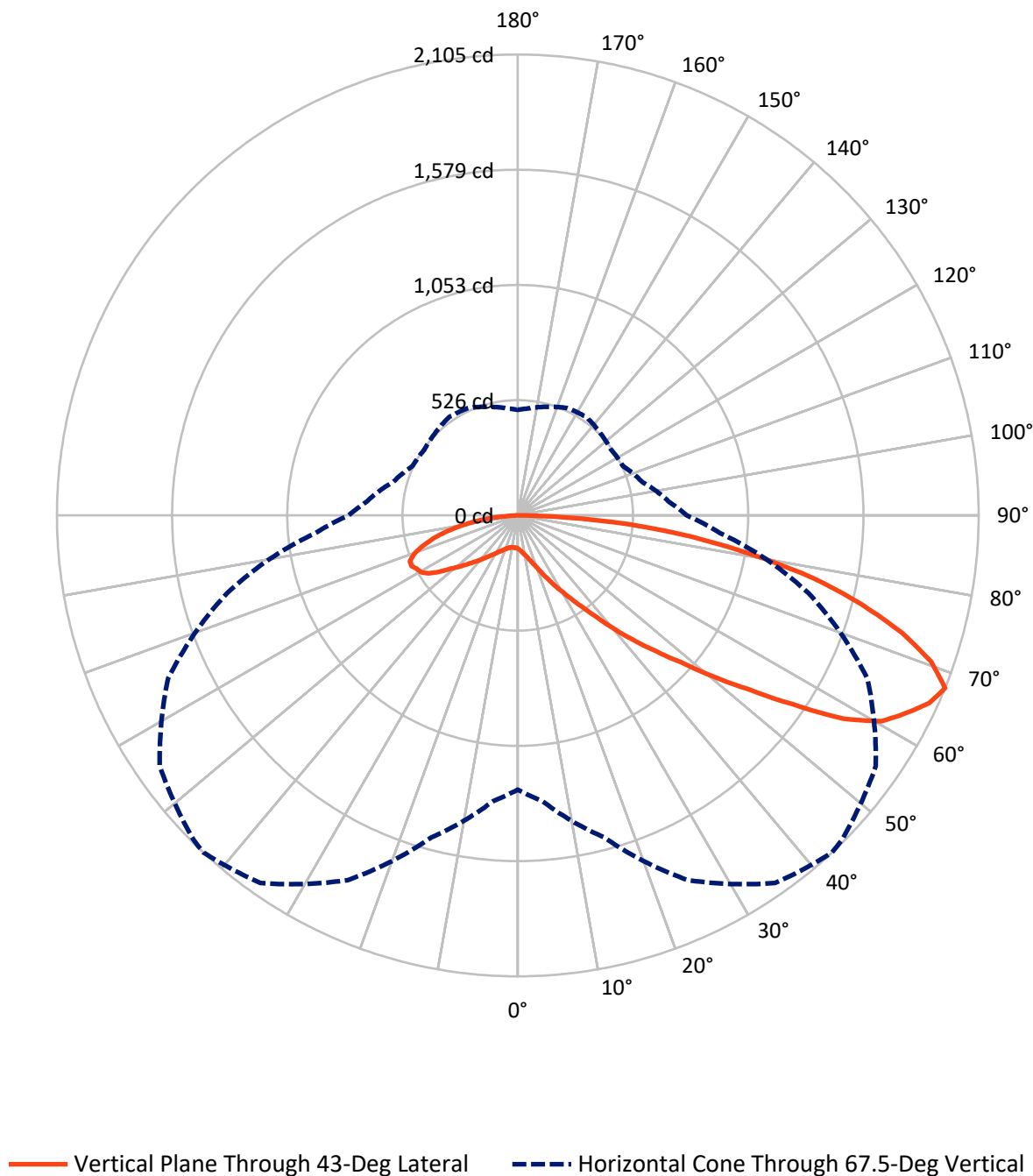


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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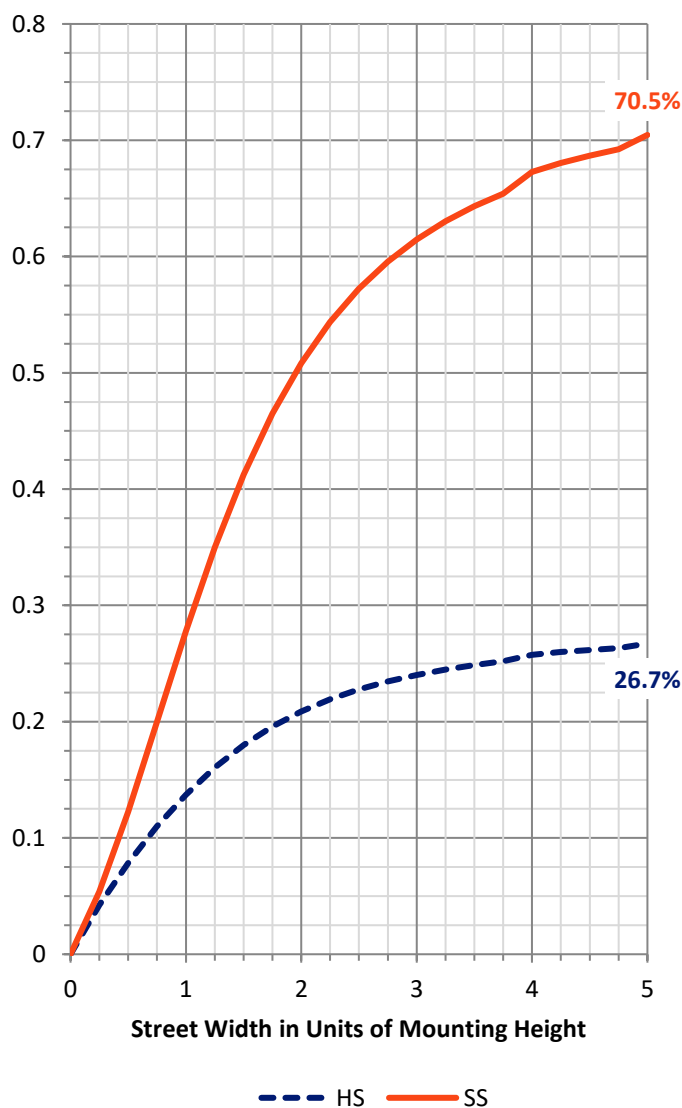
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1053.0	0.0	1053.0
	% Fixture	27.3	0.0	27.3
Street Side	Lumens	2805.3	0.0	2805.3
	% Fixture	72.7	0.0	72.7
Total	Lumens	3858.3	0.0	3858.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.2	0.4
10°-20°	52.7	1.4
20°-30°	115.1	3.0
30°-40°	227.9	5.9
40°-50°	431.5	11.2
50°-60°	766.1	19.9
60°-70°	1060.9	27.5
70°-80°	910.0	23.6
80°-90°	278.9	7.2
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°	3858.3	100.0
0°-180°	3858.3	100.0

Coefficient of Utilization



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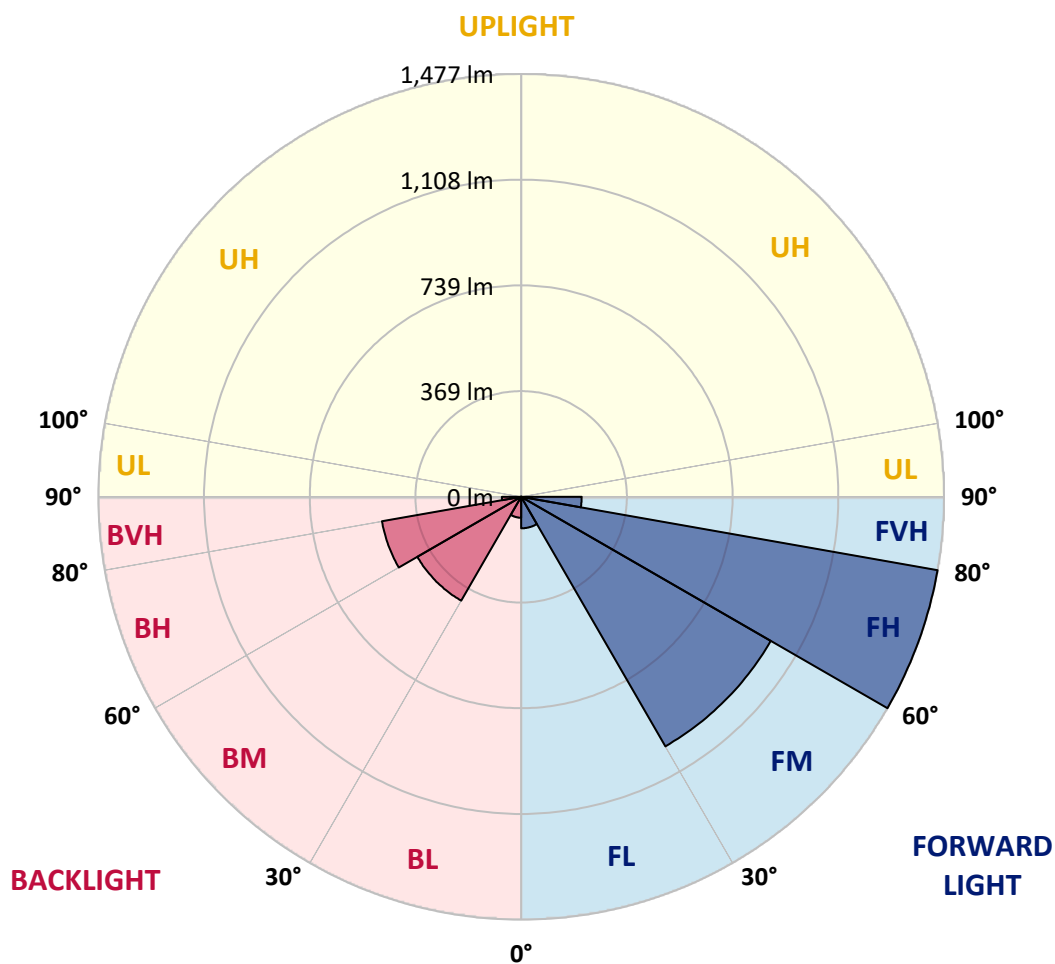
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	109.9	2.8			
FM	(30°-60°)	1006.7	26.1			
FH	(60°-80°)	1477.1	38.3			G1/1800
FVH	(80°-90°)	211.5	5.5			G2/225
BL	(0°-30°)	73.0	1.9	B0/110		
BM	(30°-60°)	418.8	10.9	B1/1000		
BH	(60°-80°)	493.9	12.8	B1/500		G1/500
BVH	(80°-90°)	67.3	1.7			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°	43°	45°	55°	65°	75°	85°
0°	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7
2.5°	159.1	158.4	158.4	158.4	157.7	157.0	157.0	156.3	155.6	154.9	153.5
5°	167.5	166.1	166.1	166.1	165.4	164.7	164.0	162.6	160.5	158.4	157.0
7.5°	177.3	178.0	178.0	175.9	174.5	173.1	172.4	169.6	166.8	163.3	160.5
10°	189.2	189.9	189.9	188.5	185.7	184.3	182.9	180.1	175.2	170.3	166.1
12.5°	202.5	203.9	204.6	202.5	199.0	196.2	196.9	192.0	185.7	179.4	173.1
15°	222.1	221.4	223.5	219.3	215.8	212.3	211.6	204.6	198.3	189.9	182.2
17.5°	246.0	243.2	243.2	241.1	239.0	233.4	230.6	223.5	213.0	203.2	191.3
20°	270.5	269.8	268.4	267.0	262.8	256.5	257.2	246.0	233.4	219.3	204.6
22.5°	299.2	302.0	297.8	297.8	294.3	289.4	287.3	272.6	255.8	236.2	219.3
25°	330.1	330.8	330.8	332.2	331.5	323.1	318.9	305.5	285.9	260.0	235.5
27.5°	361.6	364.4	363.7	367.2	369.3	363.7	360.2	344.8	316.8	288.0	257.2
30°	396.6	398.7	402.2	410.7	412.8	407.2	404.3	386.1	358.1	317.5	278.9
32.5°	436.6	439.4	442.9	459.0	466.7	460.4	456.2	440.1	405.0	360.2	311.1
35°	480.7	480.7	492.6	512.3	524.2	520.0	521.4	504.6	466.7	410.7	350.4
37.5°	529.8	529.8	545.2	569.7	592.9	594.3	602.0	582.3	536.1	463.9	388.9
40°	573.2	582.3	605.5	637.0	673.4	685.4	688.9	669.2	612.5	527.0	431.7
42.5°	623.7	634.2	662.9	709.9	756.1	782.1	783.5	764.5	705.7	606.9	493.3
45°	674.8	688.2	723.2	782.8	853.5	884.4	885.1	885.8	831.8	702.2	565.5
47.5°	733.0	743.5	789.8	860.6	951.0	1001.4	1018.2	1020.3	946.7	801.0	628.6
50°	796.1	799.6	863.4	963.6	1085.5	1155.6	1165.4	1172.4	1068.7	913.1	695.2
52.5°	861.3	866.2	940.4	1079.2	1232.7	1319.6	1336.4	1339.2	1255.8	1075.7	824.1
55°	928.5	932.7	1028.7	1217.2	1407.9	1522.1	1552.2	1571.1	1440.1	1180.1	876.0
57.5°	997.2	1007.7	1136.0	1360.9	1601.3	1752.6	1773.7	1744.9	1544.5	1233.4	890.7
60°	1065.9	1084.8	1252.3	1521.4	1791.9	1908.9	1914.5	1834.6	1595.0	1262.8	896.3
62.5°	1130.4	1161.9	1374.2	1670.0	1918.7	1989.5	1989.5	1883.7	1667.1	1358.1	960.8
65°	1195.5	1233.4	1466.0	1775.8	1988.1	2065.9	2075.0	2015.4	1791.9	1416.3	979.7
67.5°	1252.3	1310.5	1522.1	1837.4	2049.8	2105.1	2094.6	1996.5	1761.8	1375.6	927.1
70°	1315.4	1355.3	1562.0	1836.0	1994.4	2003.5	1997.9	1892.1	1666.4	1299.9	859.9
72.5°	1340.6	1372.8	1534.7	1740.7	1836.7	1835.3	1825.5	1732.3	1518.6	1182.2	767.4
75°	1314.7	1312.6	1408.6	1546.6	1620.9	1621.6	1613.9	1534.7	1328.0	1015.4	649.6
77.5°	1173.8	1169.6	1211.6	1295.7	1375.6	1382.6	1369.3	1281.0	1105.8	840.9	543.1
80°	947.5	929.9	961.5	1030.1	1091.8	1085.5	1096.7	1000.0	859.2	648.9	410.7
82.5°	641.2	646.8	686.1	727.4	794.0	799.6	787.7	734.4	621.6	470.9	288.7
85°	331.5	339.2	388.9	453.4	476.5	503.2	500.4	463.2	375.6	273.3	171.7
87.5°	58.2	50.5	70.8	107.2	130.3	155.6	154.9	110.7	86.9	58.9	36.4
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°	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7
2.5°	153.5	152.8	152.1	150.7	149.3	148.6	147.9	147.2	147.2	146.5	146.5
5°	156.3	154.9	153.5	151.4	150.0	148.6	147.2	146.5	145.8	145.1	145.1
7.5°	159.1	157.7	154.9	152.1	149.3	147.9	147.2	145.8	145.1	144.4	144.4
10°	164.0	161.9	157.7	153.5	150.7	148.6	146.5	145.8	145.1	145.1	144.4
12.5°	169.6	166.1	161.2	156.3	152.1	149.3	147.9	147.2	146.5	146.5	145.8
15°	178.0	174.5	166.8	159.8	156.3	152.8	150.7	150.0	149.3	150.0	149.3
17.5°	186.4	182.2	172.4	165.4	159.8	157.0	154.9	154.2	153.5	154.9	154.9
20°	197.6	191.3	180.8	171.7	165.4	161.9	161.2	159.8	160.5	161.2	161.2
22.5°	209.5	201.8	189.2	178.7	173.1	168.9	168.2	168.2	168.2	168.9	169.6
25°	224.2	214.4	198.3	187.8	180.8	177.3	176.6	176.6	177.3	178.0	178.0
27.5°	242.5	229.9	210.2	196.9	189.2	185.7	185.0	185.7	187.1	187.8	187.8
30°	263.5	248.8	223.5	209.5	200.4	196.2	196.2	196.9	198.3	199.7	197.6
32.5°	288.7	269.8	241.8	222.8	213.0	208.8	208.8	210.2	209.5	210.2	212.3
35°	321.0	298.5	263.5	241.1	228.5	223.5	223.5	224.2	224.2	225.7	226.4
37.5°	355.3	328.0	286.6	262.1	248.1	241.1	239.0	239.7	241.1	240.4	241.8
40°	393.1	360.2	313.9	283.1	268.4	260.7	256.5	256.5	255.8	255.1	254.4
42.5°	443.6	405.0	347.6	309.7	291.5	283.1	276.1	274.0	272.6	273.3	268.4
45°	507.4	462.5	390.3	349.0	318.9	305.5	298.5	294.3	290.8	288.0	285.2
47.5°	561.3	504.6	429.6	382.6	351.1	335.0	323.8	316.8	309.7	306.9	306.9
50°	619.5	562.0	475.1	414.2	386.1	366.5	354.6	342.0	332.2	325.9	329.4
52.5°	732.3	659.4	543.8	474.4	422.6	400.8	386.8	370.0	356.7	348.3	349.0
55°	765.2	688.9	580.9	514.4	469.5	448.5	426.8	404.3	384.0	372.1	372.8
57.5°	770.2	692.4	588.0	529.8	503.9	489.8	470.9	441.5	415.6	396.6	394.5
60°	766.6	690.3	587.3	528.4	509.5	512.3	506.7	481.4	446.4	423.3	420.5
62.5°	817.8	728.8	617.4	540.3	515.8	520.0	527.0	512.3	477.9	446.4	441.5
65°	822.0	735.8	621.6	555.7	536.8	536.8	541.0	529.8	501.8	469.5	461.8
67.5°	772.3	695.2	588.7	531.2	521.4	532.6	547.3	540.3	513.0	489.8	482.1
70°	716.9	641.2	545.9	491.2	486.3	501.8	525.6	531.9	519.3	500.4	497.6
72.5°	630.0	572.5	483.5	440.8	439.4	454.8	479.3	496.9	500.4	501.1	499.7
75°	543.1	484.2	412.1	379.8	382.6	399.4	421.2	440.1	459.0	474.4	480.7
77.5°	445.0	401.5	344.1	313.2	318.9	337.8	355.3	374.2	393.8	420.5	424.0
80°	341.3	311.8	260.0	246.7	246.0	261.4	282.4	293.6	321.7	343.4	341.3
82.5°	241.1	217.9	188.5	176.6	179.4	189.9	203.2	210.9	231.3	243.2	246.7
85°	142.3	132.4	115.6	104.4	107.2	117.7	119.8	129.6	134.5	142.3	140.2
87.5°	30.1	25.9	23.1	23.8	21.0	21.7	24.5	23.8	23.8	28.0	26.6
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)