

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: P198219

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198219
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-C1-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: 3096.5 lumens
Efficiency: N/A
Efficacy: 92.4 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): 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



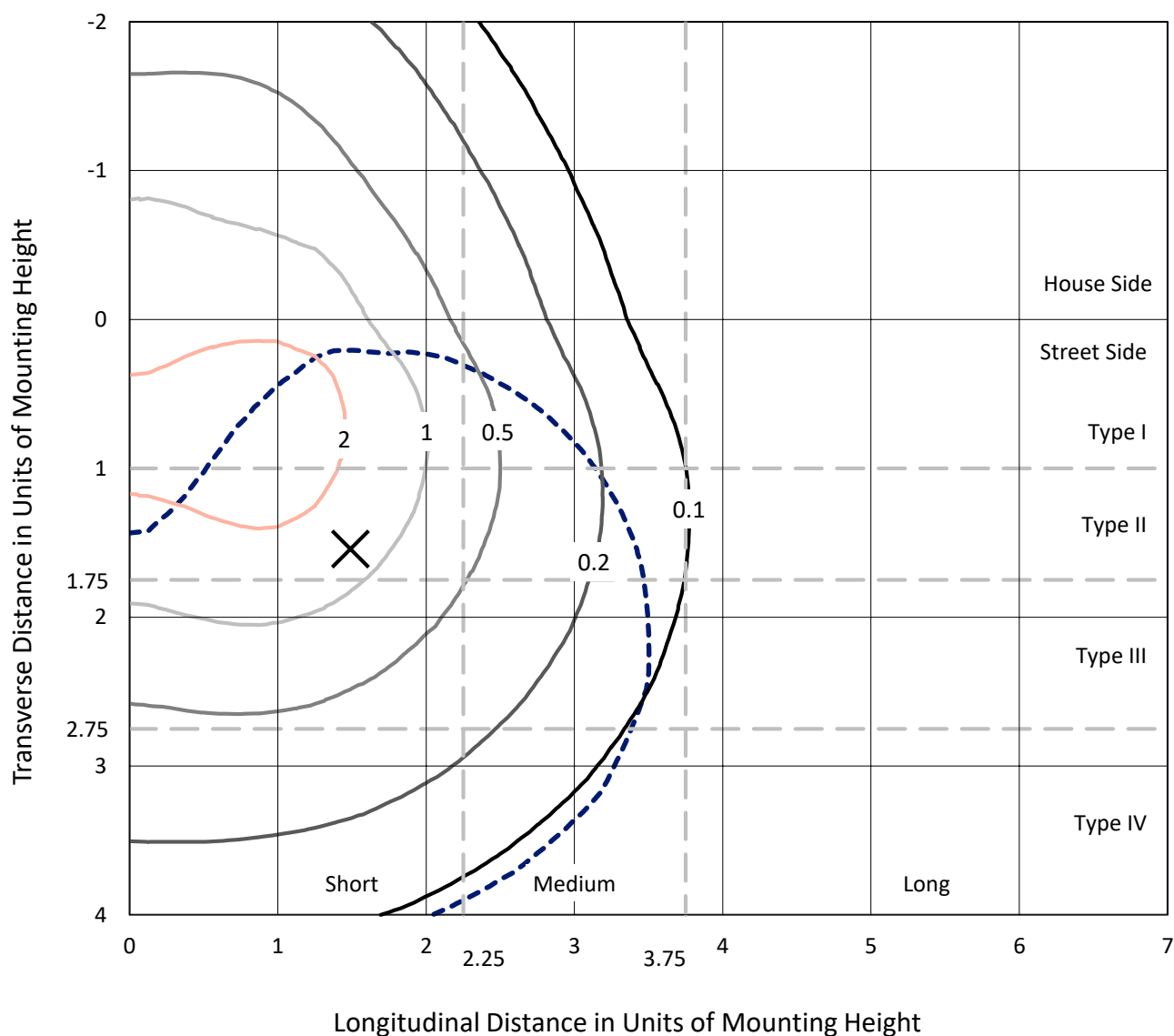
REPORT NUMBER: P198219

CATALOG NUMBER: TT-C1-LED-E1-DL-CG-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

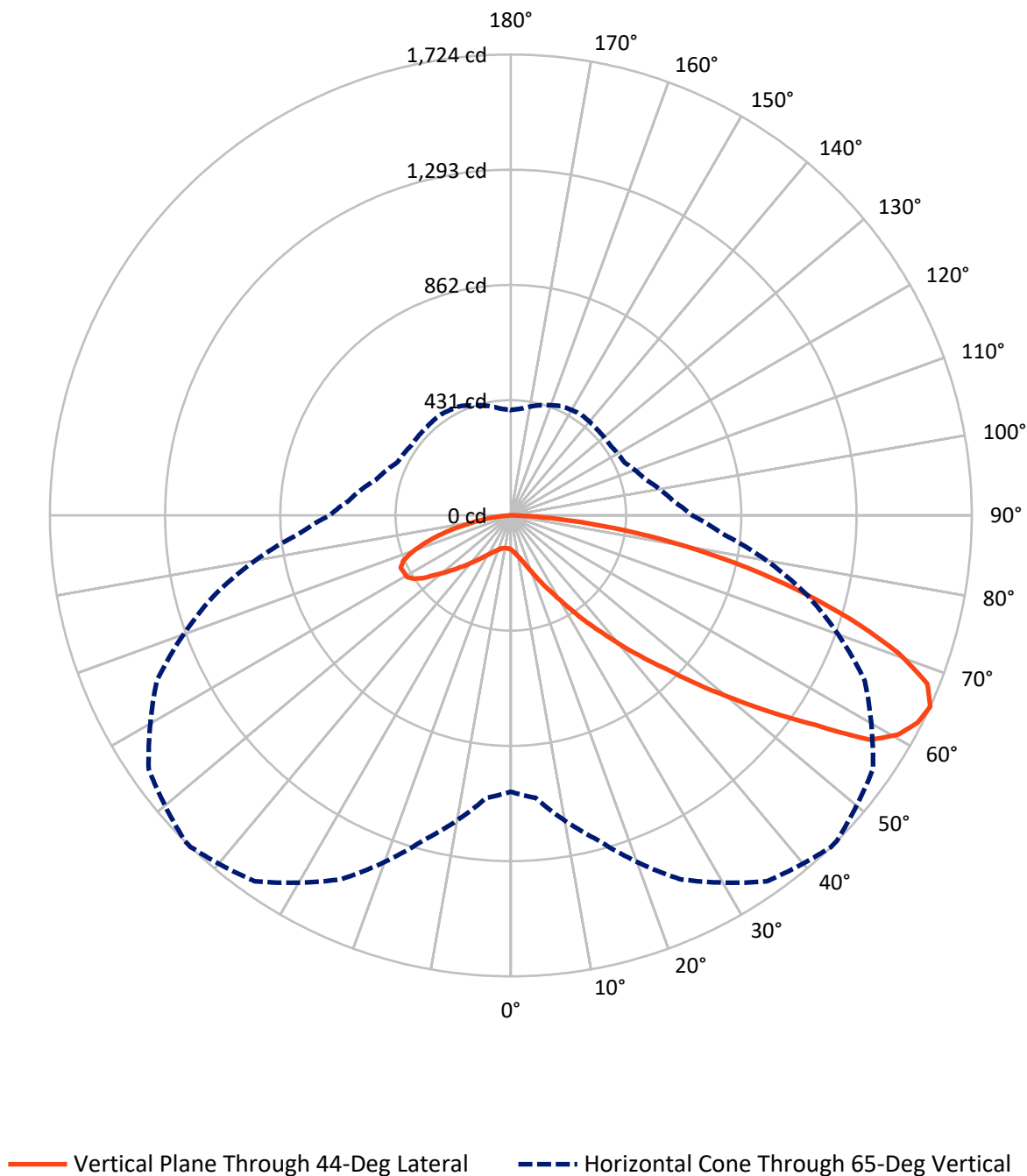


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P198219

CATALOG NUMBER: TT-C1-LED-E1-DL-CG-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P198219

CATALOG NUMBER: TT-C1-LED-E1-DL-CG-7050

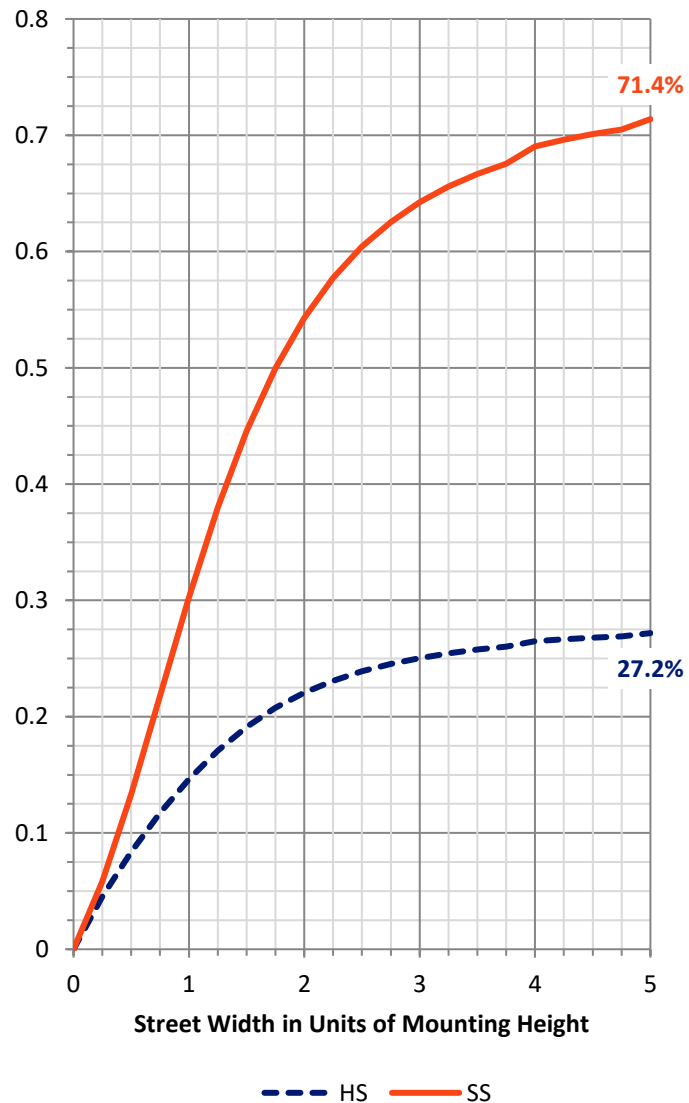
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	849.2	0.0	849.2
	% Fixture	27.4	0.0	27.4
Street Side	Lumens	2247.3	0.0	2247.3
	% Fixture	72.6	0.0	72.6
Total	Lumens	3096.5	0.0	3096.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.8	0.4
10°-20°	45.1	1.5
20°-30°	101.1	3.3
30°-40°	206.1	6.7
40°-50°	396.4	12.8
50°-60°	688.6	22.2
60°-70°	881.9	28.5
70°-80°	631.6	20.4
80°-90°	132.9	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°	3096.5	100.0
0°-180°	3096.5	100.0

Coefficient of Utilization



REPORT NUMBER: P198219

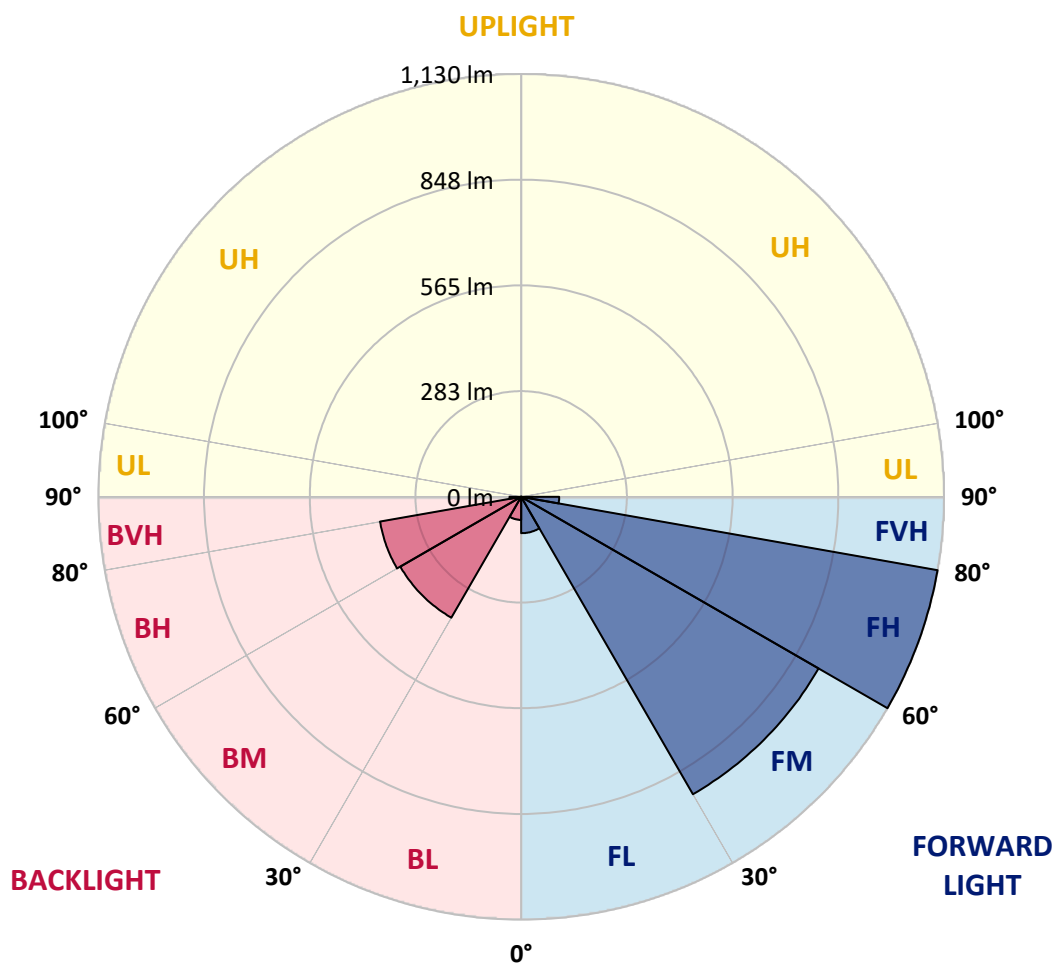
CATALOG NUMBER: TT-C1-LED-E1-DL-CG-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	97.3	3.1			
FM	(30°-60°)	918.1	29.6			
FH	(60°-80°)	1130.3	36.5			G1/1800
FVH	(80°-90°)	101.6	3.3			G2/225
BL	(0°-30°)	61.7	2.0	B0/110		
BM	(30°-60°)	373.1	12.0	B1/1000		
BH	(60°-80°)	383.2	12.4	B1/500		G1/500
BVH	(80°-90°)	31.3	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



REPORT NUMBER: P198219

CATALOG NUMBER: TT-C1-LED-E1-DL-CG-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5
2.5°	134.5	134.5	134.5	133.9	133.3	132.7	132.7	132.1	131.5	131.0	129.8
5°	142.6	142.0	142.0	140.9	140.3	139.1	139.1	138.0	136.2	134.5	132.7
7.5°	151.3	151.9	151.3	150.2	148.4	147.3	146.7	144.4	142.0	139.1	136.2
10°	161.8	162.4	162.4	161.2	159.5	156.6	156.6	153.1	149.6	146.1	140.9
12.5°	176.9	176.4	175.8	175.8	172.3	168.8	170.0	165.3	159.5	154.2	147.8
15°	190.9	192.1	193.2	190.3	188.0	184.5	183.9	178.1	171.7	164.1	156.0
17.5°	211.3	212.5	211.9	210.7	207.8	203.7	202.6	195.6	186.8	176.4	165.3
20°	237.5	238.1	235.7	234.6	232.2	227.0	225.3	217.1	205.5	190.9	177.5
22.5°	266.6	264.8	264.3	263.1	262.5	256.7	256.1	243.9	227.0	210.7	191.5
25°	291.6	293.4	294.5	296.3	295.7	289.9	289.9	275.9	255.5	233.4	209.0
27.5°	320.7	323.6	327.1	331.2	330.6	326.5	328.9	315.5	288.1	261.3	229.9
30°	352.2	356.8	362.6	372.5	375.4	371.4	371.4	354.5	327.7	291.6	253.2
32.5°	394.1	396.4	401.6	417.3	426.1	426.1	425.5	406.9	374.3	328.9	281.1
35°	437.7	438.3	452.3	471.5	482.5	491.3	487.2	469.1	432.5	376.6	316.6
37.5°	482.5	483.1	502.9	525.6	550.6	557.6	561.1	544.8	497.7	429.6	355.6
40°	527.4	534.9	558.2	589.6	626.9	640.9	639.1	624.6	568.1	487.8	398.1
42.5°	572.8	588.5	612.3	660.6	704.9	727.6	728.8	715.9	656.6	564.0	453.4
45°	626.9	636.8	673.5	729.3	792.8	822.5	825.4	819.6	763.7	657.2	519.8
47.5°	683.4	692.7	736.9	807.3	886.5	946.4	951.7	946.4	877.2	735.7	579.2
50°	745.1	748.5	801.5	895.8	1010.5	1076.2	1079.7	1082.1	988.4	837.0	636.8
52.5°	802.7	803.8	871.9	995.3	1142.0	1224.1	1228.2	1223.5	1149.6	963.9	745.1
55°	859.7	860.9	947.0	1109.4	1283.5	1385.3	1410.9	1413.3	1279.4	1045.4	774.2
57.5°	912.7	917.9	1035.5	1222.9	1443.0	1583.2	1581.5	1542.5	1355.6	1076.2	780.6
60°	960.4	977.3	1119.9	1350.4	1572.2	1664.7	1674.0	1588.5	1382.4	1089.6	775.3
62.5°	1001.2	1019.8	1199.6	1451.7	1653.1	1707.8	1704.3	1607.1	1420.3	1136.2	809.7
65°	1033.8	1060.5	1256.7	1501.7	1670.5	1724.1	1723.5	1653.7	1460.4	1146.1	795.7
67.5°	1051.8	1093.1	1265.4	1502.9	1657.2	1679.9	1671.7	1585.0	1385.3	1082.7	728.2
70°	1061.7	1088.5	1244.5	1436.5	1541.9	1535.5	1537.2	1431.9	1256.1	976.7	647.3
72.5°	1025.6	1047.7	1157.2	1293.4	1362.6	1330.0	1345.2	1248.5	1092.0	832.9	545.4
75°	936.0	946.4	999.4	1086.1	1123.4	1101.3	1101.3	1031.4	881.3	683.4	440.6
77.5°	783.5	787.0	807.3	853.9	864.4	858.0	856.2	796.3	676.4	522.1	329.5
80°	560.0	572.8	581.5	601.9	624.0	614.7	602.4	554.1	473.2	357.4	227.0
82.5°	347.5	348.7	357.4	370.8	374.3	386.5	384.7	346.3	285.8	213.6	132.7
85°	162.4	159.5	167.6	176.9	182.2	181.6	185.7	167.1	132.1	97.8	60.5
87.5°	25.6	36.1	38.4	37.8	41.9	42.5	44.2	40.2	27.4	19.2	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P198219

CATALOG NUMBER: TT-C1-LED-E1-DL-CG-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5	127.5
2.5°	129.2	129.2	128.1	126.9	125.7	125.1	124.6	124.0	124.0	123.4	123.4
5°	132.1	131.0	129.2	127.5	125.7	124.6	123.4	122.8	121.7	121.1	121.1
7.5°	134.5	133.3	130.4	128.1	125.7	124.0	122.2	121.1	120.5	119.9	119.9
10°	139.1	136.8	133.3	129.2	126.3	124.0	122.2	121.1	120.5	119.9	119.9
12.5°	145.5	142.0	136.2	132.1	128.1	125.1	123.4	122.2	121.1	121.1	120.5
15°	152.5	148.4	141.4	135.0	130.4	127.5	125.1	124.6	123.4	123.4	123.4
17.5°	160.7	156.0	147.3	139.7	134.5	131.0	128.6	127.5	126.9	127.5	128.1
20°	171.1	164.7	153.7	145.5	139.1	135.6	133.9	132.1	132.1	133.3	133.3
22.5°	183.4	175.8	162.4	152.5	146.1	141.4	140.3	139.1	138.5	139.7	139.7
25°	196.2	187.4	171.7	160.7	153.1	149.0	147.8	146.7	147.3	147.8	146.1
27.5°	215.9	203.7	183.4	170.5	161.8	157.7	156.0	155.4	156.0	156.6	155.4
30°	234.6	220.0	197.3	182.2	171.1	167.1	165.3	165.3	165.9	165.9	165.9
32.5°	260.2	242.1	213.0	195.0	183.9	178.7	178.1	178.1	176.9	177.5	176.9
35°	290.5	268.9	234.6	212.5	199.7	193.8	192.1	190.9	190.9	190.9	190.9
37.5°	323.0	296.9	256.7	232.2	217.7	210.7	207.2	205.5	206.1	206.1	204.9
40°	359.7	329.5	282.9	252.6	239.2	228.8	224.7	222.9	222.4	221.2	218.3
42.5°	408.6	370.2	314.9	278.8	259.0	251.5	243.9	240.4	237.5	236.9	232.2
45°	466.2	424.9	356.2	316.1	289.9	273.0	265.4	259.6	254.4	252.6	249.1
47.5°	514.0	463.9	392.9	348.1	319.0	301.5	289.3	280.6	273.6	269.5	270.7
50°	567.5	511.6	434.8	378.3	349.8	331.2	319.6	305.0	294.5	288.1	290.5
52.5°	655.4	593.1	493.0	430.7	381.8	363.2	348.1	331.2	317.2	308.5	313.2
55°	679.9	614.7	521.0	463.9	426.1	405.7	383.0	362.0	342.3	330.6	330.6
57.5°	678.7	612.9	523.3	473.2	451.1	436.6	419.7	393.5	367.9	351.0	349.8
60°	670.0	604.2	517.5	466.8	449.9	452.9	445.9	423.7	393.5	370.2	366.7
62.5°	692.7	625.7	532.6	473.2	448.8	451.7	457.5	444.7	415.0	385.9	382.4
65°	678.1	610.6	520.4	468.6	455.2	455.8	459.8	450.5	426.7	399.9	394.1
67.5°	618.7	559.4	479.0	434.2	425.5	436.0	448.8	445.9	425.5	407.4	400.5
70°	543.7	491.3	422.6	385.3	378.9	394.1	415.6	419.7	413.9	402.2	399.9
72.5°	460.4	414.4	356.2	328.3	326.0	337.6	359.1	373.1	377.2	382.4	382.4
75°	369.6	333.5	283.5	264.3	264.3	277.1	294.5	312.6	323.6	337.6	341.7
77.5°	280.6	249.1	213.6	197.3	197.3	209.0	222.4	236.9	255.5	274.7	271.8
80°	192.1	171.7	146.1	138.0	136.2	142.6	154.2	164.1	180.4	193.2	200.8
82.5°	110.0	103.0	87.9	80.9	80.3	88.5	96.6	97.8	108.8	116.4	118.7
85°	52.4	46.0	43.1	38.4	39.0	40.7	43.7	46.0	48.9	51.8	51.8
87.5°	11.6	11.1	9.9	10.5	10.5	9.3	10.5	9.9	11.1	11.6	10.5
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)