

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: P198207

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198207
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-C1-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: 2895 lumens
Efficiency: N/A
Efficacy: 86.4 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

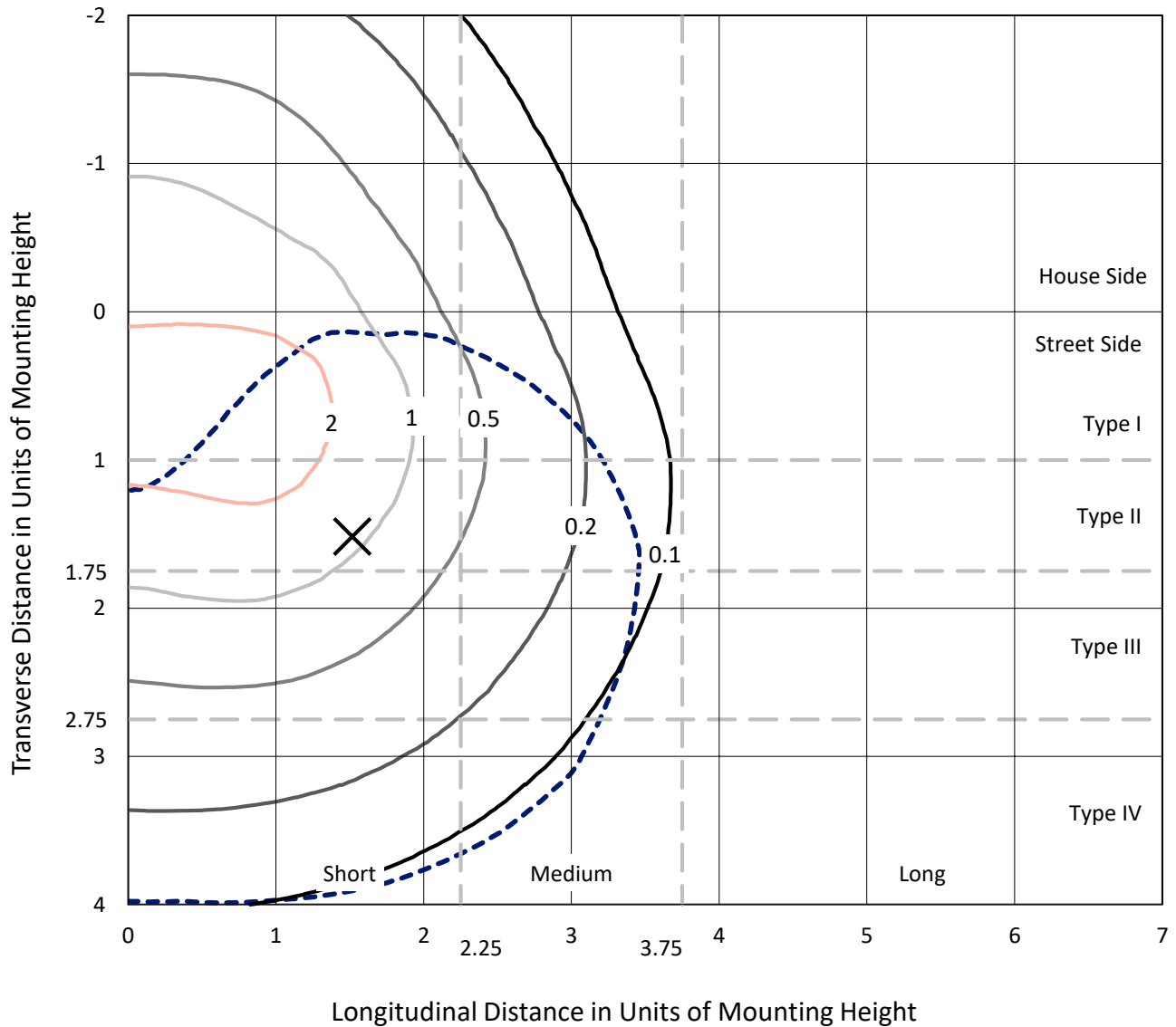


REPORT NUMBER: P198207

CATALOG NUMBER: TT-C1-LED-E1-DL-CG-MS/DIM-7050

Iso-Footcandle Lines of Horizontal Illumination

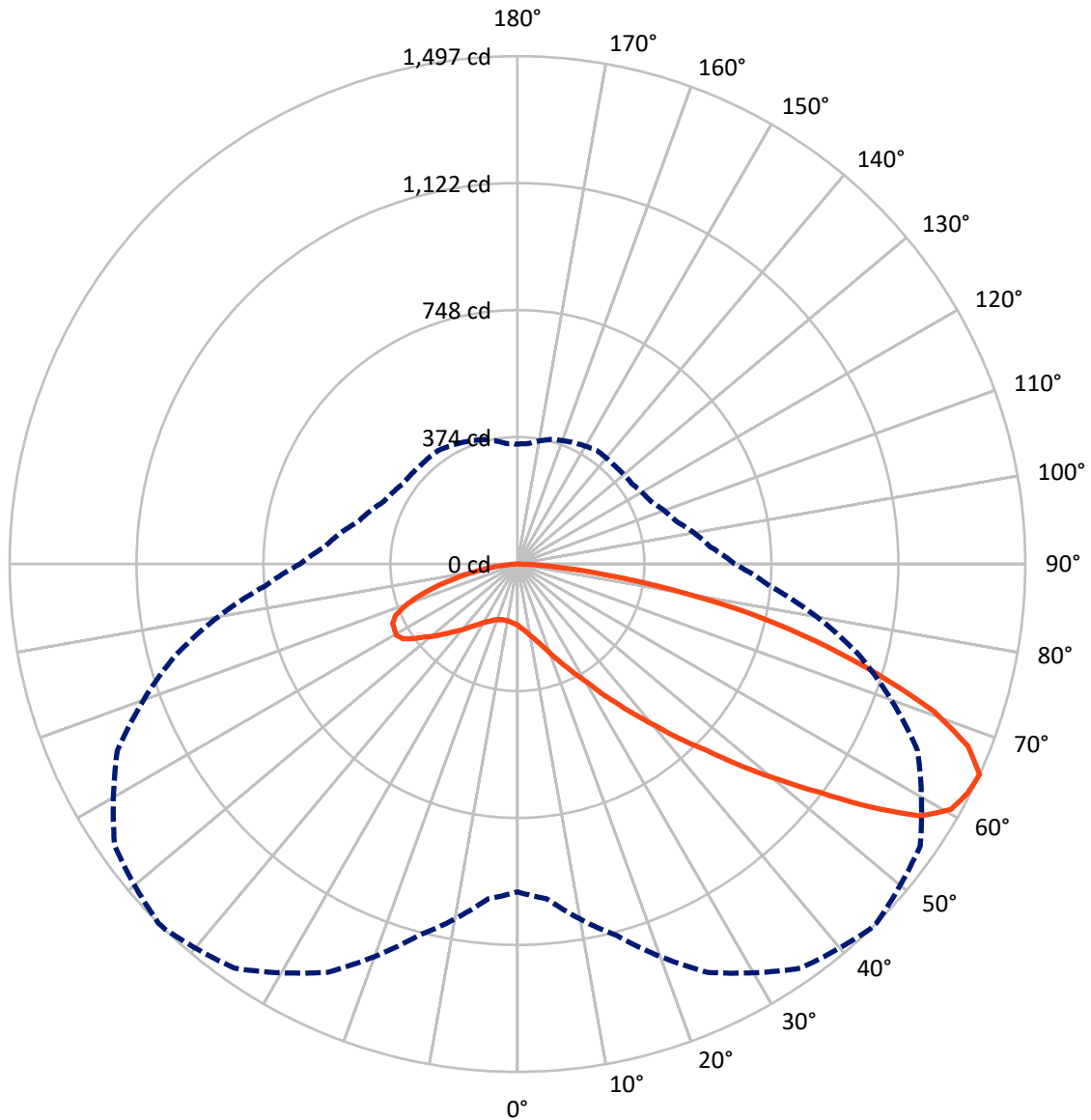
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P198207
CATALOG NUMBER: TT-C1-LED-E1-DL-CG-MS/DIM-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P198207

CATALOG NUMBER: TT-C1-LED-E1-DL-CG-MS/DIM-7050

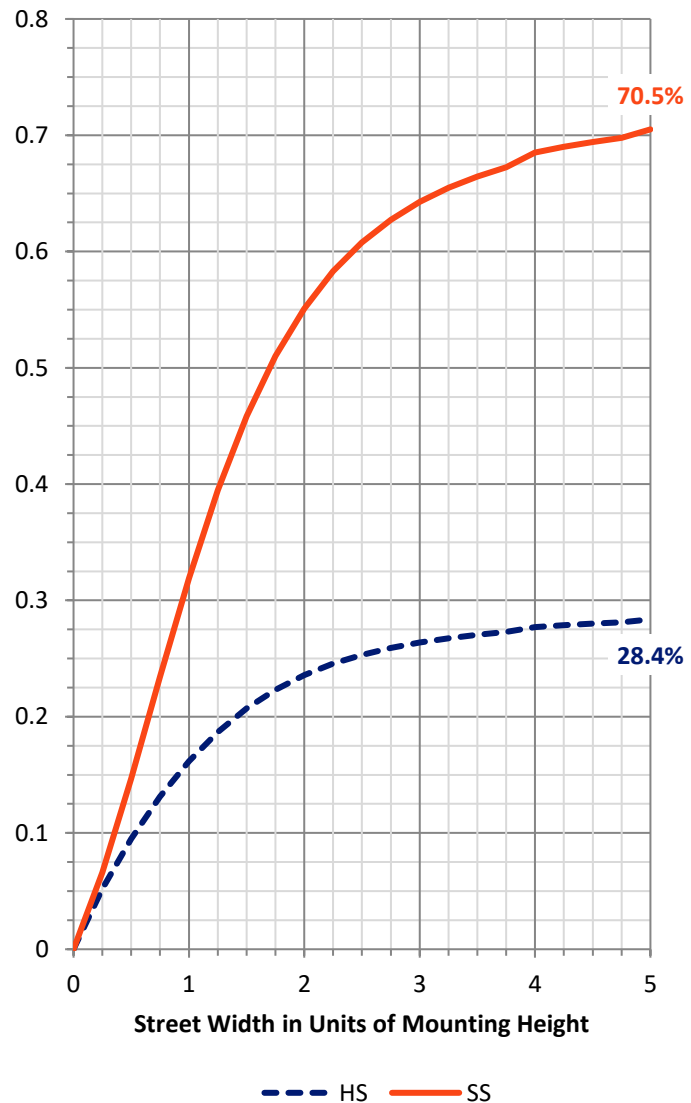
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	829.0	0.0	829.0
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	2066.0	0.0	2066.0
	% Fixture	71.4	0.0	71.4
Total	Lumens	2895.0	0.0	2895.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.9	0.6
10°-20°	59.3	2.0
20°-30°	120.3	4.2
30°-40°	221.4	7.6
40°-50°	392.2	13.5
50°-60°	643.4	22.2
60°-70°	790.5	27.3
70°-80°	543.9	18.8
80°-90°	106.2	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°	2895.0	100.0
0°-180°	2895.0	100.0



REPORT NUMBER: P198207

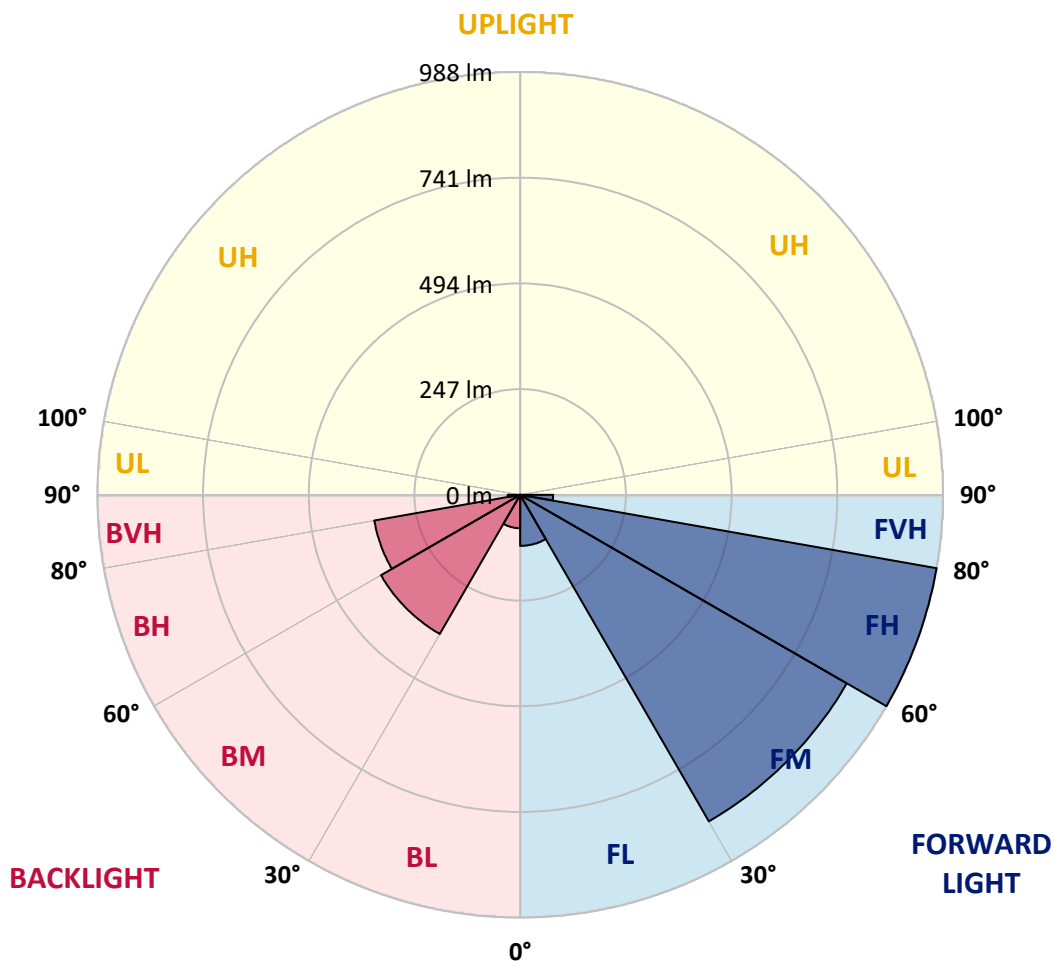
CATALOG NUMBER: TT-C1-LED-E1-DL-CG-MS/DIM-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	119.4	4.1			
FM (30°-60°)	881.3	30.4			
FH (60°-80°)	988.2	34.1			G1/1800
FVH (80°-90°)	77.1	2.7			G1/100
BL (0°-30°)	78.1	2.7	B0/110		
BM (30°-60°)	375.6	13.0	B1/1000		
BH (60°-80°)	346.2	12.0	B1/500		G1/500
BVH (80°-90°)	29.1	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





REPORT NUMBER: P198207

CATALOG NUMBER: TT-C1-LED-E1-DL-CG-MS/DIM-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	180.4	180.4	180.4	180.4	180.4	180.4	180.4	180.4	180.4	180.4	180.4
2.5°	190.3	190.3	189.8	189.2	188.6	188.0	188.0	186.8	185.7	184.5	183.4
5°	200.2	199.7	199.7	199.1	197.9	195.6	195.6	193.8	191.5	188.6	186.3
7.5°	210.7	210.7	210.7	209.0	206.6	204.9	203.7	201.4	197.9	193.8	189.8
10°	222.9	223.5	222.4	221.2	218.9	215.4	215.4	210.7	205.5	200.2	195.0
12.5°	237.5	238.1	238.1	235.7	231.1	228.2	227.0	221.8	215.4	208.4	200.8
15°	252.6	254.9	253.8	252.6	247.4	243.3	242.1	234.0	227.0	217.7	208.4
17.5°	276.5	275.3	273.0	270.1	267.2	261.3	260.2	251.5	241.0	229.3	217.1
20°	298.6	298.6	296.3	293.9	290.5	282.3	283.5	271.8	257.9	243.9	227.6
22.5°	323.0	323.6	321.9	319.6	316.6	310.2	308.5	296.3	278.2	259.6	240.4
25°	347.5	348.7	349.8	349.8	345.7	338.2	337.0	321.3	302.7	278.2	254.9
27.5°	376.6	379.5	378.3	379.5	377.8	369.0	369.0	352.7	331.8	301.5	271.2
30°	404.0	407.4	409.2	413.9	413.9	408.6	404.5	389.4	364.4	328.9	292.2
32.5°	440.0	440.0	443.5	453.4	458.7	451.1	453.4	436.6	403.4	361.5	316.1
35°	476.7	476.7	483.1	496.5	501.7	503.5	503.5	482.5	449.4	399.3	345.2
37.5°	515.1	516.3	528.5	546.6	561.7	560.0	562.3	545.4	506.4	444.1	378.9
40°	553.5	557.0	576.2	597.2	622.8	631.0	627.5	617.0	568.1	497.1	416.8
42.5°	595.5	601.9	623.4	656.0	683.4	705.5	706.1	689.2	640.9	558.8	462.2
45°	639.1	649.0	671.7	714.2	758.4	784.6	784.0	785.8	737.5	635.6	520.4
47.5°	689.2	695.6	727.6	779.4	838.8	891.1	890.6	888.8	826.5	706.6	566.4
50°	739.2	742.7	786.4	861.5	941.2	992.4	998.8	1005.2	920.8	795.7	622.8
52.5°	791.0	793.4	847.5	937.7	1051.8	1127.5	1119.3	1122.2	1058.2	911.5	712.5
55°	841.1	841.7	909.8	1036.7	1174.6	1252.6	1264.8	1278.2	1170.5	974.4	739.2
57.5°	884.2	888.8	979.6	1135.6	1300.3	1406.9	1401.0	1384.2	1232.8	999.4	743.3
60°	921.4	932.5	1048.9	1227.6	1396.4	1461.6	1468.0	1410.9	1252.6	1009.9	738.6
62.5°	948.8	966.8	1109.4	1297.4	1452.3	1492.4	1488.4	1422.6	1285.8	1051.2	767.2
65°	966.2	990.1	1133.9	1327.7	1454.0	1495.3	1496.5	1448.8	1300.9	1044.2	746.8
67.5°	968.0	1001.7	1126.3	1306.7	1426.7	1437.7	1431.3	1360.9	1231.1	980.2	688.6
70°	954.6	979.6	1089.1	1227.6	1312.0	1305.6	1301.5	1228.2	1105.4	885.9	613.5
72.5°	902.2	920.3	995.3	1092.5	1130.4	1126.9	1110.0	1054.1	955.2	758.4	519.2
75°	798.0	810.2	843.4	896.4	931.3	919.1	908.6	854.5	772.4	619.3	412.1
77.5°	656.6	643.2	660.1	681.0	698.5	702.6	700.2	644.9	585.6	466.2	313.7
80°	459.8	455.8	454.0	463.3	479.0	473.2	463.9	442.4	395.8	317.8	220.0
82.5°	273.0	268.3	266.6	271.2	263.1	264.3	264.8	242.7	230.5	193.8	126.3
85°	120.5	120.5	117.6	117.6	117.0	117.6	120.5	112.9	105.4	87.9	60.5
87.5°	18.0	16.3	22.7	21.0	24.4	27.9	25.6	24.4	20.4	15.7	12.2
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: P198207

CATALOG NUMBER: TT-C1-LED-E1-DL-CG-MS/DIM-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	180.4	180.4	180.4	180.4	180.4	180.4	180.4	180.4	180.4	180.4	180.4
2.5°	182.8	182.2	180.4	179.3	177.5	176.4	175.2	174.6	174.6	174.0	174.6
5°	185.1	183.9	181.0	178.7	176.4	174.6	172.9	171.1	170.0	169.4	169.4
7.5°	187.4	185.7	181.6	178.1	174.6	171.7	169.4	168.2	166.5	165.9	165.3
10°	191.5	189.2	183.4	178.1	174.0	170.0	167.1	165.3	164.1	163.6	163.6
12.5°	197.3	193.2	186.3	179.9	174.0	169.4	165.9	163.6	162.4	161.2	161.8
15°	203.1	198.5	189.8	181.0	174.6	170.0	165.9	163.6	161.8	161.2	160.7
17.5°	210.7	205.5	195.0	185.1	176.9	171.1	167.1	164.7	163.0	162.4	162.4
20°	220.6	213.6	200.2	189.2	180.4	174.0	169.4	167.1	165.3	165.3	165.3
22.5°	230.5	221.8	206.1	193.8	184.5	177.5	173.5	171.1	169.4	168.8	169.4
25°	242.1	232.2	214.2	199.7	189.8	183.4	179.3	176.4	174.6	174.6	174.6
27.5°	257.9	246.2	222.9	208.4	196.7	189.8	185.1	183.4	182.2	181.6	181.0
30°	275.3	260.2	235.7	217.1	205.5	197.9	193.8	192.1	190.3	189.2	188.6
32.5°	296.3	278.8	248.0	228.8	215.4	207.8	203.7	201.4	199.7	199.1	199.1
35°	322.5	300.9	265.4	242.7	227.6	219.4	215.4	213.0	211.3	210.7	211.3
37.5°	348.7	323.6	284.1	257.9	242.1	232.2	228.2	225.3	224.1	222.9	223.5
40°	380.7	349.8	305.6	276.5	257.9	249.7	243.3	239.8	238.1	236.3	235.2
42.5°	419.7	384.7	332.4	296.3	276.5	265.4	259.0	254.9	251.5	250.3	248.5
45°	469.1	426.7	367.3	321.3	297.4	283.5	275.9	270.7	265.4	264.3	262.5
47.5°	509.9	463.9	396.4	350.4	323.0	304.4	293.9	286.4	280.0	278.8	277.1
50°	555.3	503.5	423.7	374.9	344.0	328.3	314.9	304.4	297.4	293.9	295.1
52.5°	632.7	567.5	472.6	408.6	369.6	349.2	338.8	324.8	313.7	308.5	309.7
55°	649.6	587.9	498.8	441.2	402.8	378.9	360.3	346.3	332.4	323.0	322.5
57.5°	649.0	585.6	497.1	445.9	419.1	403.4	387.1	364.4	347.5	335.3	334.7
60°	641.4	576.8	488.4	437.7	418.5	413.9	405.1	388.2	360.9	347.5	344.6
62.5°	660.1	592.5	495.3	436.6	412.7	410.4	408.0	397.6	373.1	354.5	351.6
65°	640.3	571.6	484.9	434.8	412.1	407.4	408.0	394.1	380.1	356.2	353.3
67.5°	582.7	523.9	443.5	400.5	389.4	390.6	394.6	388.2	372.5	352.7	350.4
70°	518.6	464.5	393.5	355.1	346.9	353.3	364.4	365.0	354.5	338.8	339.3
72.5°	436.6	390.6	333.5	302.7	299.8	305.0	313.7	324.2	321.3	316.6	317.2
75°	353.9	316.6	264.8	244.5	243.9	248.0	259.6	267.8	273.6	275.3	279.4
77.5°	262.5	241.0	201.4	184.5	182.8	188.0	200.8	207.8	215.9	222.4	228.2
80°	183.9	164.1	138.5	125.7	128.1	131.5	139.7	148.4	154.2	159.5	159.5
82.5°	107.7	97.2	82.7	76.8	78.0	83.2	85.0	92.5	93.1	96.6	99.0
85°	50.6	43.7	39.6	39.0	39.0	39.6	43.1	43.7	44.2	45.4	50.1
87.5°	10.5	10.5	10.5	10.5	10.5	12.2	12.8	14.0	13.4	14.0	13.4
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)