

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: P198208

Luminaire Tested: **TT-C1-LED-E1-DL-CG-MS/DIM-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198208
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-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2873.2 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

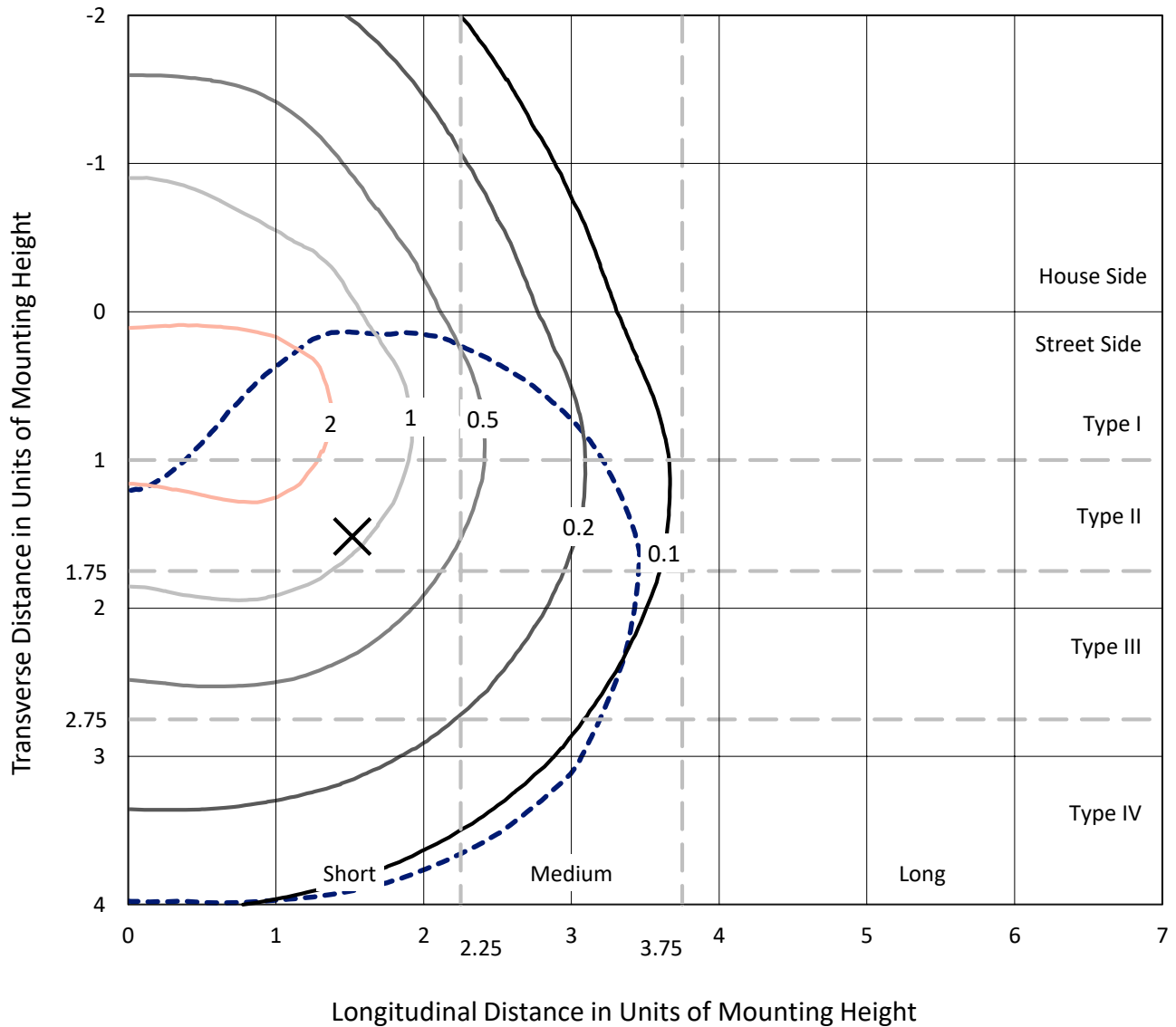
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P198208
 CATALOG NUMBER: TT-C1-LED-E1-DL-CG-MS/DIM-7060

Iso-Footcandle Lines of Horizontal Illumination

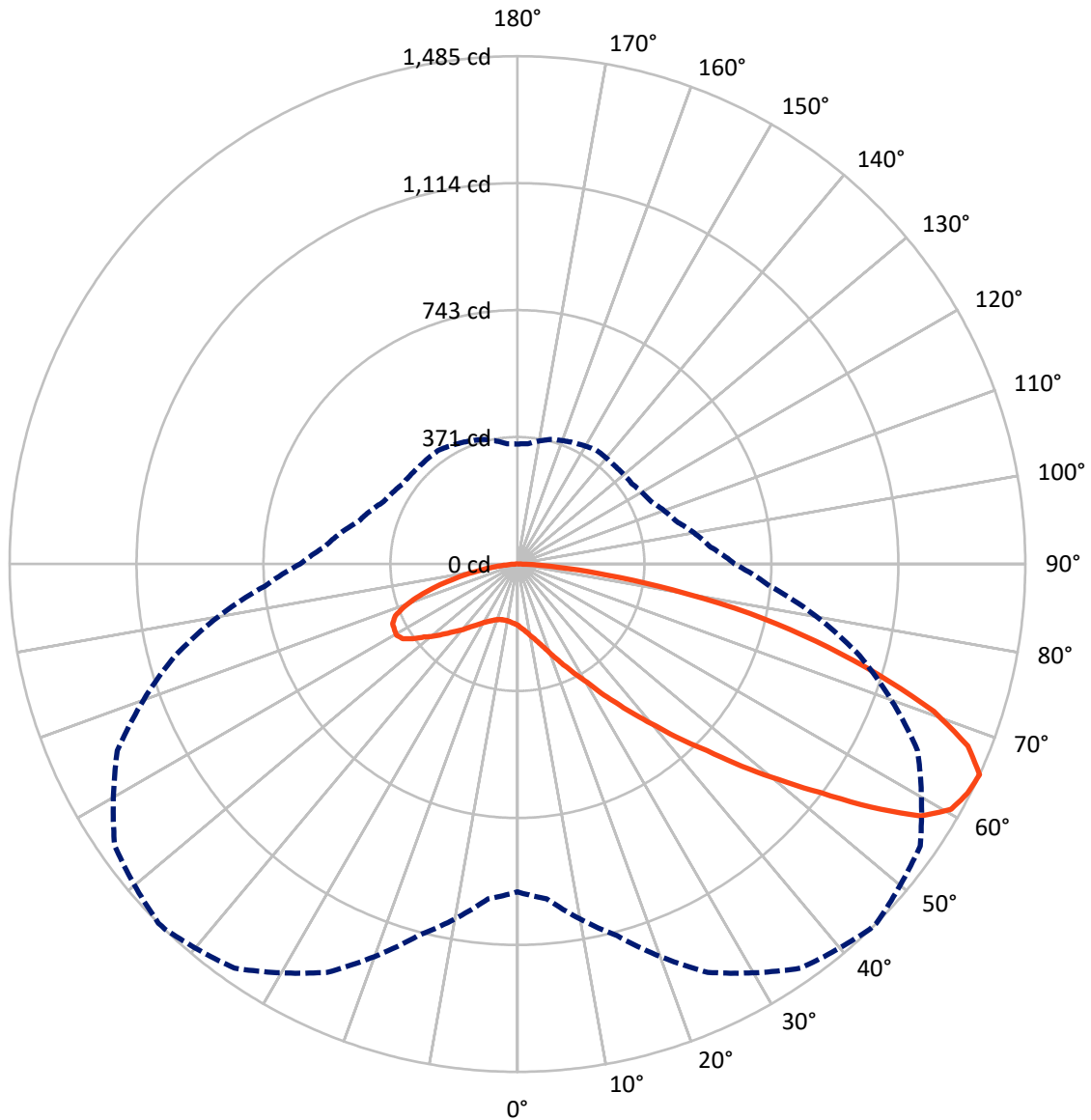
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P198208
CATALOG NUMBER: TT-C1-LED-E1-DL-CG-MS/DIM-7060

Luminous Intensity Polar Plot



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

REPORT NUMBER: P198208

CATALOG NUMBER: TT-C1-LED-E1-DL-CG-MS/DIM-7060

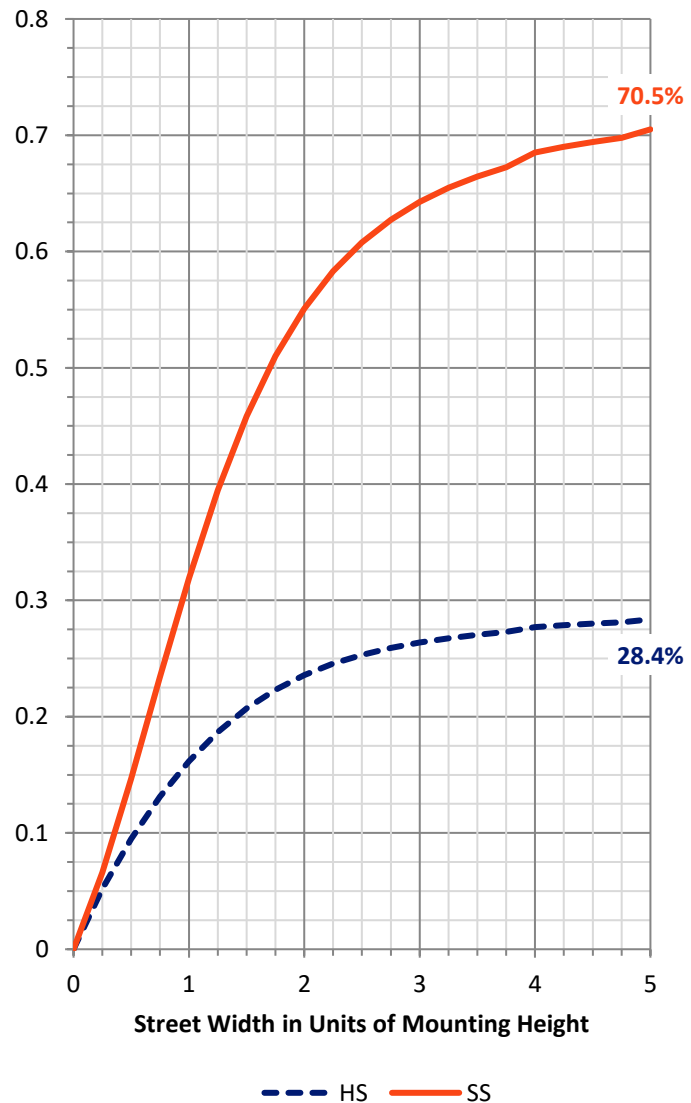
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	822.7	0.0	822.7
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	2050.4	0.0	2050.4
	% Fixture	71.4	0.0	71.4
Total	Lumens	2873.2	0.0	2873.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.7	0.6
10°-20°	58.8	2.0
20°-30°	119.4	4.2
30°-40°	219.8	7.6
40°-50°	389.2	13.5
50°-60°	638.5	22.2
60°-70°	784.5	27.3
70°-80°	539.8	18.8
80°-90°	105.4	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°	2873.2	100.0
0°-180°	2873.2	100.0



REPORT NUMBER: P198208

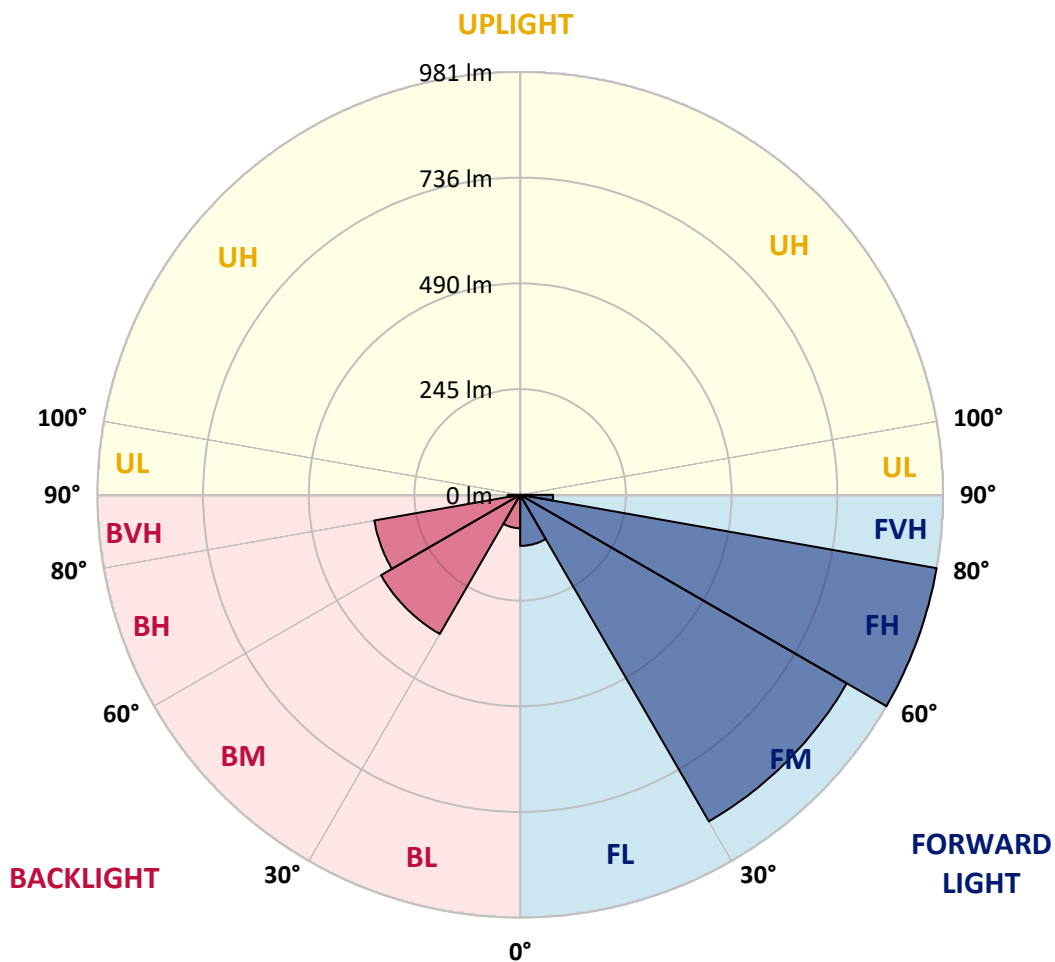
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	118.5	4.1			
FM	(30°-60°)	874.7	30.4			
FH	(60°-80°)	980.7	34.1			G1/1800
FVH	(80°-90°)	76.5	2.7			G1/100
BL	(0°-30°)	77.5	2.7	B0/110		
BM	(30°-60°)	372.8	13.0	B1/1000		
BH	(60°-80°)	343.6	12.0	B1/500		G1/500
BVH	(80°-90°)	28.8	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: P198208

CATALOG NUMBER: TT-C1-LED-E1-DL-CG-MS/DIM-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	179.1	179.1	179.1	179.1	179.1	179.1	179.1	179.1	179.1	179.1	179.1
2.5°	188.9	188.9	188.3	187.7	187.2	186.6	186.6	185.4	184.3	183.1	182.0
5°	198.7	198.1	198.1	197.6	196.4	194.1	193.5	192.4	190.1	187.2	184.9
7.5°	209.1	209.1	209.1	207.4	205.1	203.3	202.2	199.9	196.4	192.4	188.3
10°	221.2	221.8	220.7	219.5	217.2	213.7	213.7	209.1	203.9	198.7	193.5
12.5°	235.7	236.3	236.3	234.0	229.3	226.4	225.3	220.1	213.7	206.8	199.3
15°	250.7	253.0	251.9	250.7	245.5	241.5	240.3	232.2	225.3	216.1	206.8
17.5°	274.4	273.2	270.9	268.0	265.2	259.4	258.2	249.6	239.2	227.6	215.5
20°	296.3	296.3	294.0	291.7	288.3	280.2	281.3	269.8	255.9	242.0	225.9
22.5°	320.6	321.2	319.5	317.1	314.3	307.9	306.2	294.0	276.1	257.6	238.6
25°	344.9	346.0	347.2	347.2	343.1	335.6	334.5	318.9	300.4	276.1	253.0
27.5°	373.8	376.6	375.5	376.6	374.9	366.2	366.2	350.1	329.3	299.2	269.2
30°	400.9	404.4	406.1	410.7	410.7	405.5	401.5	386.5	361.6	326.4	290.0
32.5°	436.7	436.7	440.2	450.0	455.2	447.7	450.0	433.3	400.3	358.7	313.7
35°	473.1	473.1	479.5	492.8	498.0	499.7	499.7	478.9	446.0	396.3	342.6
37.5°	511.2	512.4	524.5	542.4	557.5	555.7	558.0	541.3	502.6	440.8	376.1
40°	549.4	552.8	571.9	592.7	618.1	626.2	622.7	612.3	563.8	493.3	413.6
42.5°	591.0	597.3	618.7	651.0	678.2	700.1	700.7	684.0	636.0	554.6	458.7
45°	634.3	644.1	666.6	708.8	752.7	778.7	778.1	779.9	731.9	630.8	516.4
47.5°	684.0	690.3	722.1	773.5	832.4	884.4	883.8	882.1	820.3	701.3	562.1
50°	733.6	737.1	780.4	855.0	934.1	984.9	991.3	997.6	913.9	789.7	618.1
52.5°	785.1	787.4	841.1	930.6	1043.9	1119.0	1110.9	1113.8	1050.2	904.6	707.1
55°	834.7	835.3	902.9	1028.8	1165.7	1243.2	1255.3	1268.6	1161.7	967.0	733.6
57.5°	877.5	882.1	972.2	1127.0	1290.5	1396.2	1390.5	1373.7	1223.5	991.9	737.7
60°	914.5	925.4	1041.0	1218.3	1385.8	1450.5	1456.9	1400.3	1243.2	1002.3	733.1
62.5°	941.6	959.5	1101.0	1287.6	1441.3	1481.2	1477.1	1411.8	1276.1	1043.3	761.4
65°	958.9	982.6	1125.3	1317.7	1443.0	1484.0	1485.2	1437.8	1291.1	1036.3	741.2
67.5°	960.7	994.2	1117.8	1296.9	1415.9	1426.9	1420.5	1350.6	1221.8	972.8	683.4
70°	947.4	972.2	1080.8	1218.3	1302.1	1295.7	1291.7	1218.9	1097.0	879.2	608.9
72.5°	895.4	913.3	987.8	1084.3	1121.8	1118.4	1101.6	1046.2	948.0	752.7	515.3
75°	792.0	804.1	837.1	889.6	924.3	912.1	901.8	848.0	766.6	614.6	409.0
77.5°	651.6	638.3	655.1	675.9	693.2	697.3	694.9	640.1	581.1	462.7	311.4
80°	456.4	452.3	450.6	459.8	475.4	469.7	460.4	439.0	392.8	315.4	218.4
82.5°	270.9	266.3	264.6	269.2	261.1	262.3	262.8	240.9	228.8	192.4	125.4
85°	119.6	119.6	116.7	116.7	116.1	116.7	119.6	112.1	104.6	87.2	60.1
87.5°	17.9	16.2	22.5	20.8	24.3	27.7	25.4	24.3	20.2	15.6	12.1
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: P198208

CATALOG NUMBER: TT-C1-LED-E1-DL-CG-MS/DIM-7060

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	179.1	179.1	179.1	179.1	179.1	179.1	179.1	179.1	179.1	179.1	179.1
2.5°	181.4	180.8	179.1	177.9	176.2	175.0	173.9	173.3	173.3	172.7	173.3
5°	183.7	182.5	179.7	177.3	175.0	173.3	171.6	169.8	168.7	168.1	168.1
7.5°	186.0	184.3	180.2	176.8	173.3	170.4	168.1	166.9	165.2	164.6	164.1
10°	190.1	187.7	182.0	176.8	172.7	168.7	165.8	164.1	162.9	162.3	162.3
12.5°	195.8	191.8	184.9	178.5	172.7	168.1	164.6	162.3	161.2	160.0	160.6
15°	201.6	197.0	188.3	179.7	173.3	168.7	164.6	162.3	160.6	160.0	159.4
17.5°	209.1	203.9	193.5	183.7	175.6	169.8	165.8	163.5	161.7	161.2	161.2
20°	218.9	212.0	198.7	187.7	179.1	172.7	168.1	165.8	164.1	164.1	164.1
22.5°	228.8	220.1	204.5	192.4	183.1	176.2	172.1	169.8	168.1	167.5	168.1
25°	240.3	230.5	212.6	198.1	188.3	182.0	177.9	175.0	173.3	173.3	173.3
27.5°	255.9	244.4	221.2	206.8	195.3	188.3	183.7	182.0	180.8	180.2	179.7
30°	273.2	258.2	234.0	215.5	203.9	196.4	192.4	190.6	188.9	187.7	187.2
32.5°	294.0	276.7	246.1	227.0	213.7	206.2	202.2	199.9	198.1	197.6	197.6
35°	320.0	298.7	263.4	240.9	225.9	217.8	213.7	211.4	209.7	209.1	209.7
37.5°	346.0	321.2	281.9	255.9	240.3	230.5	226.4	223.6	222.4	221.2	221.8
40°	377.8	347.2	303.3	274.4	255.9	247.8	241.5	238.0	236.3	234.5	233.4
42.5°	416.5	381.8	329.9	294.0	274.4	263.4	257.1	253.0	249.6	248.4	246.7
45°	465.6	423.4	364.5	318.9	295.2	281.3	273.8	268.6	263.4	262.3	260.5
47.5°	506.0	460.4	393.4	347.8	320.6	302.1	291.7	284.2	277.9	276.7	275.0
50°	551.1	499.7	420.5	372.0	341.4	325.8	312.5	302.1	295.2	291.7	292.9
52.5°	627.9	563.2	469.1	405.5	366.8	346.6	336.2	322.3	311.4	306.2	307.3
55°	644.7	583.5	495.1	437.9	399.8	376.1	357.6	343.7	329.9	320.6	320.0
57.5°	644.1	581.1	493.3	442.5	415.9	400.3	384.2	361.6	344.9	332.7	332.2
60°	636.6	572.5	484.7	434.4	415.3	410.7	402.1	385.3	358.2	344.9	342.0
62.5°	655.1	588.1	491.6	433.3	409.6	407.3	405.0	394.6	370.3	351.8	348.9
65°	635.4	567.3	481.2	431.5	409.0	404.4	405.0	391.1	377.2	353.5	350.6
67.5°	578.3	519.9	440.2	397.4	386.5	387.6	391.7	385.3	369.7	350.1	347.8
70°	514.7	461.0	390.5	352.4	344.3	350.6	361.6	362.2	351.8	336.2	336.8
72.5°	433.3	387.6	331.0	300.4	297.5	302.7	311.4	321.8	318.9	314.3	314.8
75°	351.2	314.3	262.8	242.6	242.0	246.1	257.6	265.7	271.5	273.2	277.3
77.5°	260.5	239.2	199.9	183.1	181.4	186.6	199.3	206.2	214.3	220.7	226.4
80°	182.5	162.9	137.5	124.8	127.1	130.6	138.6	147.3	153.1	158.3	158.3
82.5°	106.9	96.5	82.0	76.3	77.4	82.6	84.3	91.9	92.4	95.9	98.2
85°	50.3	43.3	39.3	38.7	38.7	39.3	42.7	43.3	43.9	45.1	49.7
87.5°	10.4	10.4	10.4	10.4	10.4	12.1	12.7	13.9	13.3	13.9	13.3
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)