

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: P198198

Luminaire Tested: **TT-C2-LED-E1-DL-CG-LWR-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198198
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-C2-LED-E1-DL-CG-LWR-LW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3360.5 lumens
Efficiency: N/A
Efficacy: 81.2 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): 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

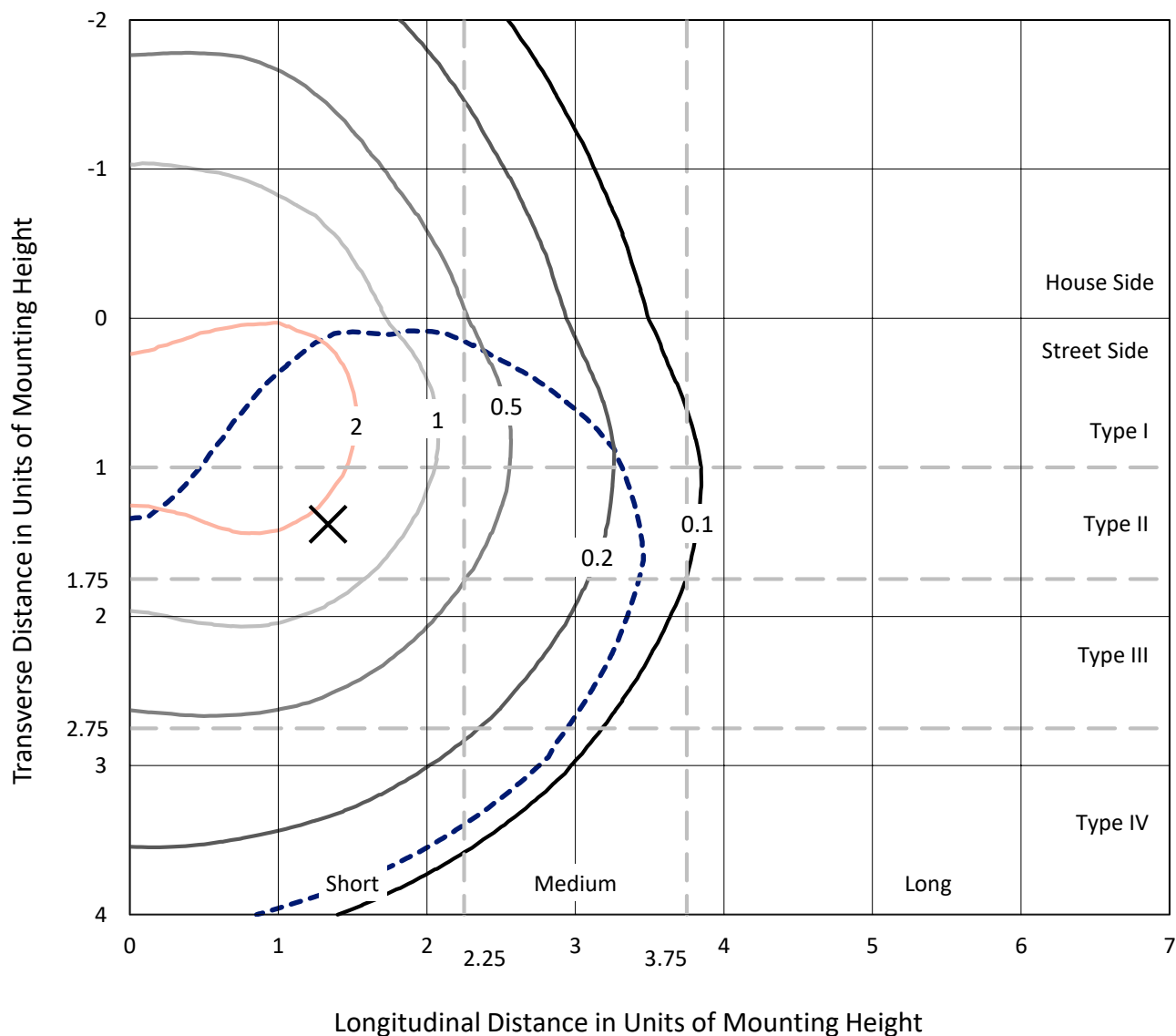


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

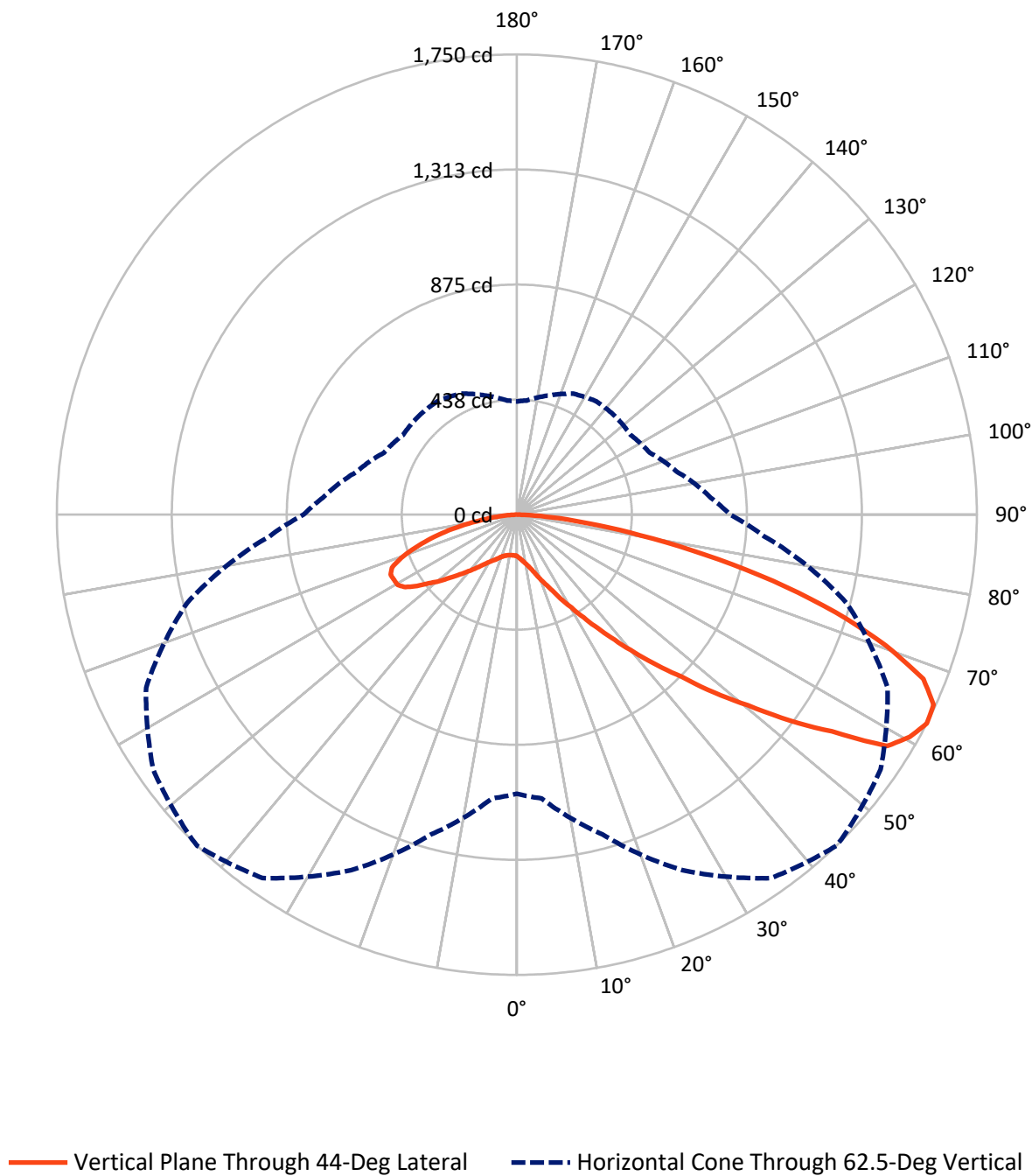


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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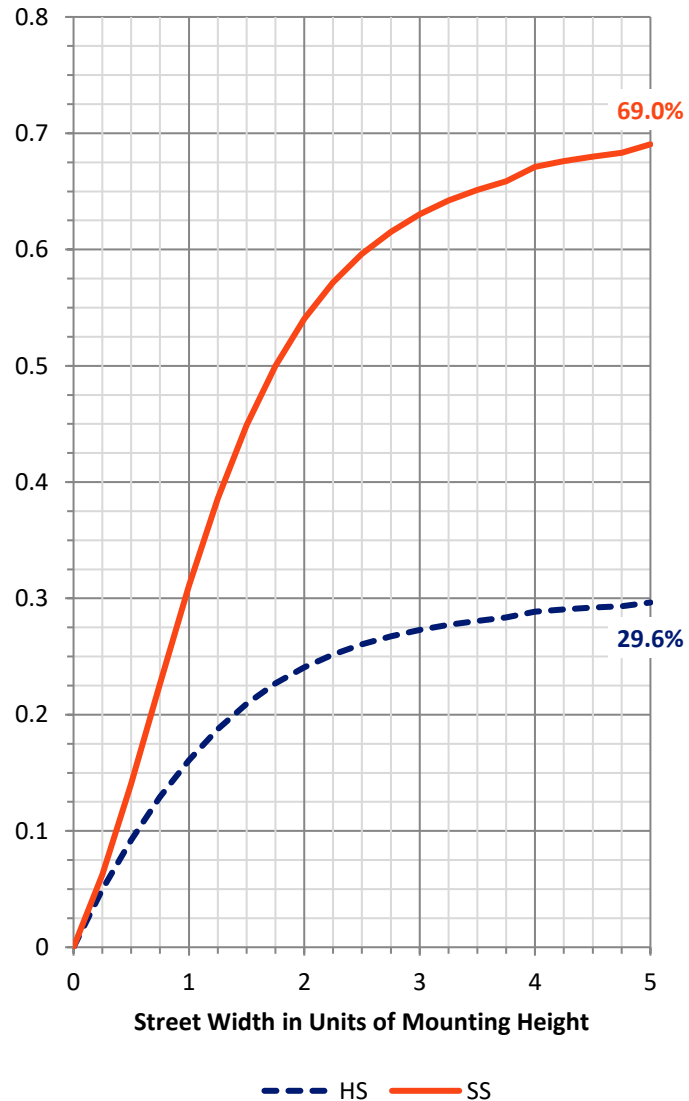
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1009.1	0.0	1009.1
	% Fixture	30.0	0.0	30.0
Street Side	Lumens	2351.5	0.0	2351.5
	% Fixture	70.0	0.0	70.0
Total	Lumens	3360.5	0.0	3360.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.9	0.5
10°-20°	54.7	1.6
20°-30°	118.4	3.5
30°-40°	233.7	7.0
40°-50°	441.8	13.1
50°-60°	759.4	22.6
60°-70°	952.8	28.4
70°-80°	650.7	19.4
80°-90°	133.1	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°	3360.5	100.0
0°-180°	3360.5	100.0

Coefficient of Utilization



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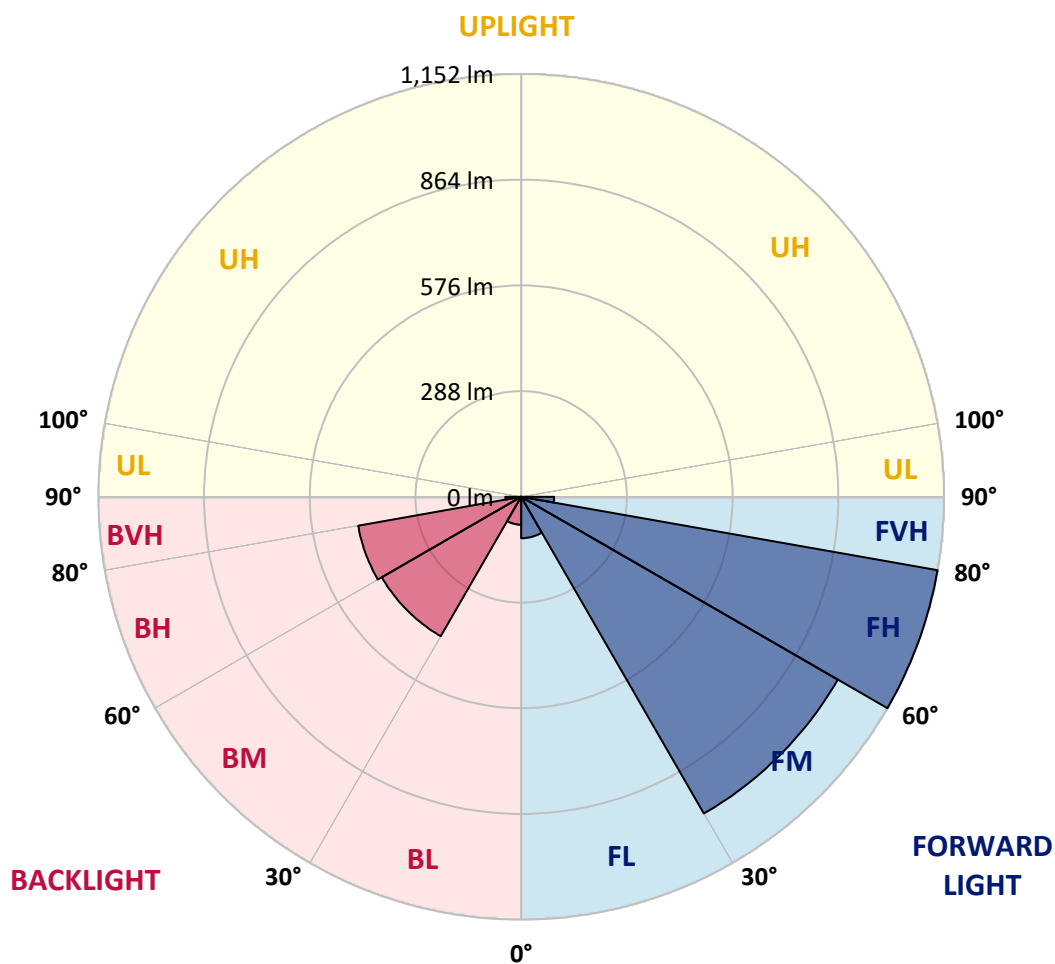
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	112.8	3.4			
FM	(30°-60°)	996.4	29.6			
FH	(60°-80°)	1152.4	34.3			G1/1800
FVH	(80°-90°)	89.9	2.7			G1/100
BL	(0°-30°)	76.2	2.3	B0/110		
BM	(30°-60°)	438.5	13.0	B1/1000		
BH	(60°-80°)	451.1	13.4	B1/500		G1/500
BVH	(80°-90°)	43.3	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°	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8
2.5°	165.5	165.5	165.5	165.5	164.1	164.1	164.1	163.4	162.7	161.3	160.6
5°	174.0	174.7	174.0	173.3	171.9	171.2	170.5	169.8	167.7	165.5	163.4
7.5°	184.6	183.9	183.9	183.2	181.1	179.7	179.7	176.9	174.0	171.2	167.7
10°	196.0	196.7	196.7	194.6	193.1	190.3	190.3	186.1	182.5	178.3	174.0
12.5°	210.1	209.4	210.8	209.4	207.3	202.3	202.3	198.8	192.4	186.8	181.1
15°	227.8	227.8	228.5	225.7	223.6	218.6	220.0	210.8	205.2	198.8	189.6
17.5°	250.4	250.4	248.3	246.9	243.4	240.5	237.7	229.9	221.4	210.8	200.2
20°	275.9	276.6	273.1	273.1	268.8	265.3	263.2	254.0	241.2	227.1	213.7
22.5°	307.0	305.6	302.8	300.0	297.8	291.5	293.6	281.6	264.6	245.5	227.8
25°	331.8	333.9	333.9	336.0	332.5	325.4	327.6	312.7	292.9	270.3	245.5
27.5°	362.2	366.5	370.0	374.3	372.8	367.9	366.5	353.0	327.6	300.7	267.4
30°	395.5	401.8	404.7	412.5	414.6	410.3	409.6	396.2	371.4	331.1	295.0
32.5°	438.6	437.9	446.4	459.9	468.3	466.2	465.5	450.7	417.4	375.0	325.4
35°	480.4	481.8	491.7	512.2	525.7	529.9	529.2	513.6	480.4	427.3	365.8
37.5°	525.7	527.8	546.9	571.6	593.6	604.2	604.2	597.1	552.5	481.1	410.3
40°	570.2	580.1	602.1	633.9	670.7	688.4	687.7	676.3	635.3	555.4	457.0
42.5°	624.0	633.9	657.9	703.2	749.2	783.2	783.2	779.6	728.0	642.4	524.9
45°	677.0	685.5	715.3	772.6	839.8	879.4	884.3	897.1	861.0	740.7	603.5
47.5°	733.6	740.7	778.9	851.1	935.3	1012.4	1017.3	1027.2	969.2	836.9	665.0
50°	790.2	793.1	849.0	945.9	1065.5	1139.0	1155.3	1175.1	1094.5	953.0	734.4
52.5°	855.3	856.7	921.8	1045.6	1194.9	1302.5	1305.3	1319.4	1274.9	1095.2	863.8
55°	912.6	914.8	998.2	1157.4	1352.0	1455.3	1483.6	1524.6	1415.6	1190.7	902.0
57.5°	965.7	974.2	1088.8	1292.5	1504.1	1660.4	1655.5	1653.4	1498.4	1228.9	909.8
60°	1017.3	1032.9	1179.4	1402.2	1615.9	1717.0	1722.7	1682.4	1520.4	1244.4	902.0
62.5°	1061.9	1083.1	1258.6	1492.1	1687.3	1750.3	1746.7	1689.4	1556.4	1298.9	944.5
65°	1093.7	1122.8	1294.7	1530.3	1681.7	1742.5	1747.5	1717.0	1587.6	1301.7	931.7
67.5°	1110.0	1151.1	1294.0	1504.8	1639.2	1668.2	1670.3	1614.4	1492.1	1232.4	852.5
70°	1114.3	1141.1	1259.3	1411.4	1492.1	1489.2	1485.7	1443.9	1326.5	1099.4	757.7
72.5°	1068.3	1092.3	1149.6	1243.0	1275.6	1268.5	1255.1	1208.4	1129.1	945.2	645.9
75°	967.1	975.6	977.7	1003.9	1005.3	1007.4	991.9	961.5	905.6	764.1	515.7
77.5°	778.9	791.7	764.1	734.4	733.6	730.8	727.3	689.1	662.2	573.1	383.4
80°	567.4	561.7	539.1	505.1	482.5	475.4	471.2	460.6	444.3	392.6	266.7
82.5°	342.4	348.8	325.4	301.4	289.4	277.3	283.7	272.4	263.9	239.8	163.4
85°	153.5	153.5	148.6	142.2	132.3	133.0	134.4	130.2	124.5	112.5	78.5
87.5°	29.7	26.9	29.0	29.7	27.6	28.3	30.4	31.8	33.3	31.1	23.3
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°	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8
2.5°	160.6	159.9	159.2	157.8	156.4	155.6	154.9	154.2	154.2	153.5	153.5
5°	162.7	162.0	160.6	159.2	157.8	155.6	154.2	153.5	152.1	152.1	152.1
7.5°	166.3	164.8	162.0	159.9	157.8	155.6	154.2	152.8	152.1	150.7	150.7
10°	171.2	169.1	165.5	161.3	158.5	156.4	154.2	152.8	152.1	151.4	151.4
12.5°	178.3	174.7	169.1	164.8	160.6	157.8	155.6	154.2	153.5	152.8	152.8
15°	185.4	181.8	174.7	168.4	163.4	160.6	157.8	157.1	155.6	155.6	155.6
17.5°	195.3	189.6	181.1	174.0	168.4	164.1	162.0	159.9	159.9	160.6	160.6
20°	206.6	200.2	189.6	180.4	174.0	169.8	167.7	166.3	165.5	166.3	167.0
22.5°	220.0	210.8	197.4	188.9	181.8	176.9	174.7	173.3	172.6	174.0	173.3
25°	233.5	224.3	208.7	197.4	188.9	185.4	183.2	182.5	181.1	182.5	181.8
27.5°	256.1	243.4	222.1	207.3	199.5	195.3	192.4	191.0	191.0	191.0	190.3
30°	275.9	261.1	236.3	221.4	210.1	205.2	202.3	201.6	201.6	202.3	201.6
32.5°	303.5	285.1	256.1	236.3	225.7	217.9	215.1	214.4	214.4	213.7	214.4
35°	338.9	316.9	278.7	255.4	241.2	234.2	231.3	230.6	228.5	228.5	228.5
37.5°	377.1	348.1	305.6	280.2	262.5	253.3	249.0	246.2	244.8	243.4	243.4
40°	418.8	385.6	338.2	304.9	286.5	274.5	266.7	262.5	260.3	258.2	256.8
42.5°	473.3	436.5	375.7	335.3	312.0	298.6	287.2	283.0	277.3	275.2	271.0
45°	544.8	498.1	422.4	377.1	343.1	324.0	312.7	303.5	296.4	292.9	289.4
47.5°	600.6	545.5	467.6	413.2	379.9	355.2	339.6	324.7	316.2	309.9	308.5
50°	657.2	599.2	515.7	450.7	413.9	391.9	371.4	353.0	337.5	330.4	331.8
52.5°	766.9	696.9	580.1	501.6	450.0	425.2	404.0	381.3	363.6	352.3	353.0
55°	798.0	726.6	621.9	551.1	501.6	469.1	440.8	416.0	390.5	374.3	375.0
57.5°	795.9	725.2	625.4	564.6	532.0	508.7	482.5	448.5	418.8	397.6	394.8
60°	785.3	713.8	619.0	557.5	533.4	527.8	514.3	483.2	442.9	418.8	413.9
62.5°	811.5	740.7	630.4	557.5	528.5	529.2	526.4	507.3	469.1	435.8	430.1
65°	800.1	723.7	623.3	562.4	537.7	532.0	530.6	512.2	486.0	448.5	443.6
67.5°	732.9	666.4	575.2	521.4	510.8	515.7	522.8	510.8	484.6	456.3	450.0
70°	643.1	586.5	509.4	462.7	457.7	467.6	483.9	485.3	470.5	448.5	449.2
72.5°	542.6	497.4	432.3	400.4	394.8	404.0	424.5	434.4	435.1	427.3	426.6
75°	435.8	394.8	348.1	321.2	322.6	336.8	352.3	369.3	375.0	379.9	384.2
77.5°	324.7	302.8	263.2	245.5	249.0	264.6	274.5	285.1	297.1	302.8	307.0
80°	227.1	208.0	181.8	171.2	175.5	184.6	193.1	202.3	217.9	218.6	227.1
82.5°	142.2	129.5	116.0	112.5	113.2	116.7	126.6	132.3	139.4	141.5	140.1
85°	69.3	66.5	62.3	60.1	60.8	64.4	70.7	75.0	79.2	78.5	74.3
87.5°	21.9	22.6	23.3	24.1	24.1	26.2	28.3	28.3	29.7	29.0	29.0
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)