

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: P198168

Luminaire Tested: **TT-C3-LED-E1-DL-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34705)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C3-LED-E1-DL-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4859.4 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 66.5
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



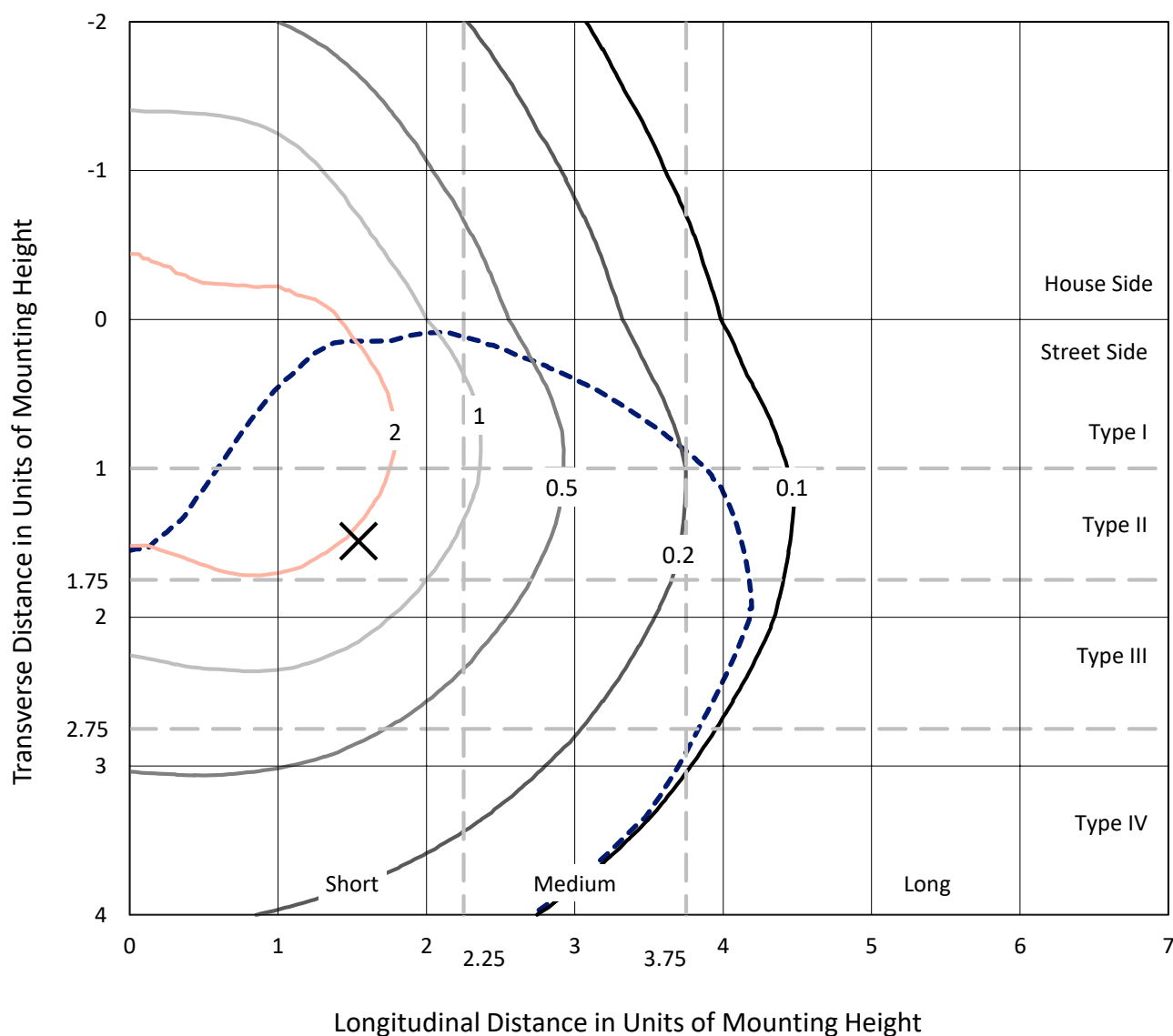
REPORT NUMBER: P198168

CATALOG NUMBER: TT-C3-LED-E1-DL-LWR-LW-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

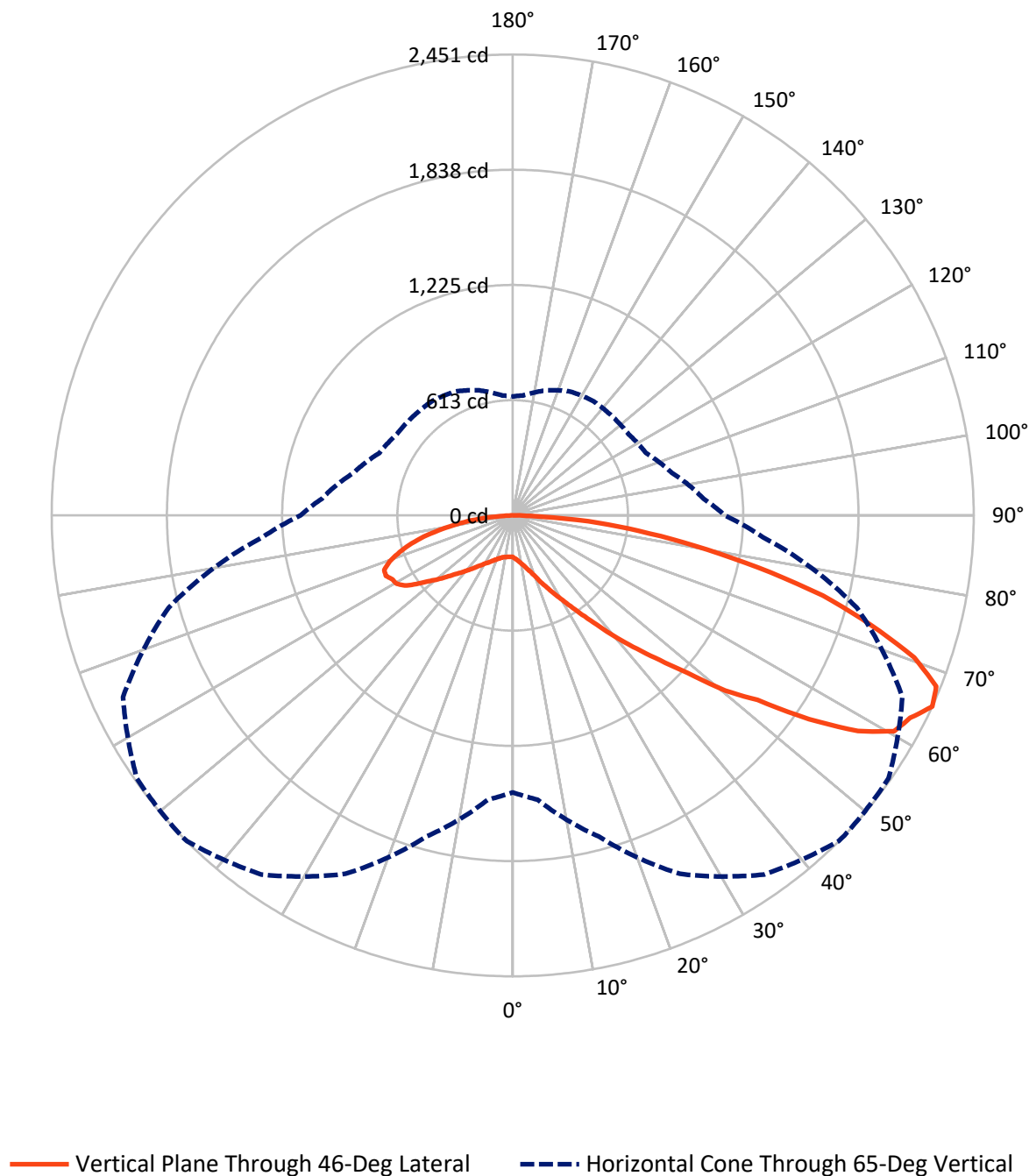


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P198168

CATALOG NUMBER: TT-C3-LED-E1-DL-LWR-LW-7060

Luminous Intensity Polar Plot



REPORT NUMBER: P198168

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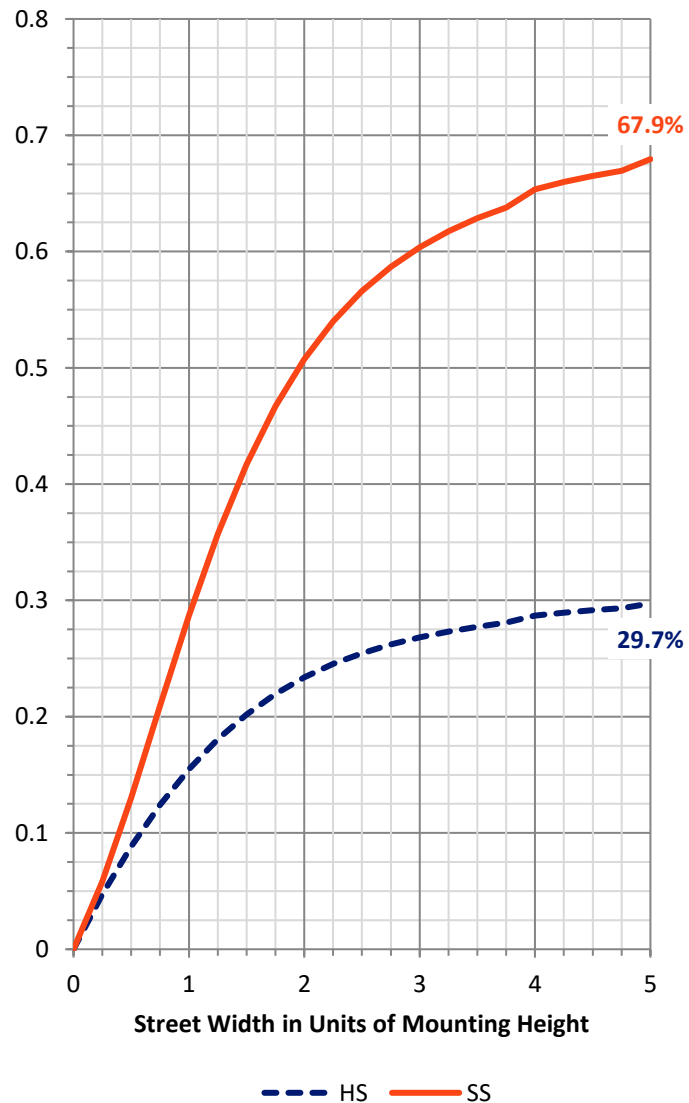
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1475.6	0.0	1475.6
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	3383.8	0.0	3383.8
	% Fixture	69.6	0.0	69.6
Total	Lumens	4859.4	0.0	4859.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.3	0.5
10°-20°	76.2	1.6
20°-30°	160.9	3.3
30°-40°	305.6	6.3
40°-50°	564.5	11.6
50°-60°	989.6	20.4
60°-70°	1342.8	27.6
70°-80°	1091.7	22.5
80°-90°	305.8	6.3
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°	4859.4	100.0
0°-180°	4859.4	100.0

Coefficient of Utilization



REPORT NUMBER: P198168

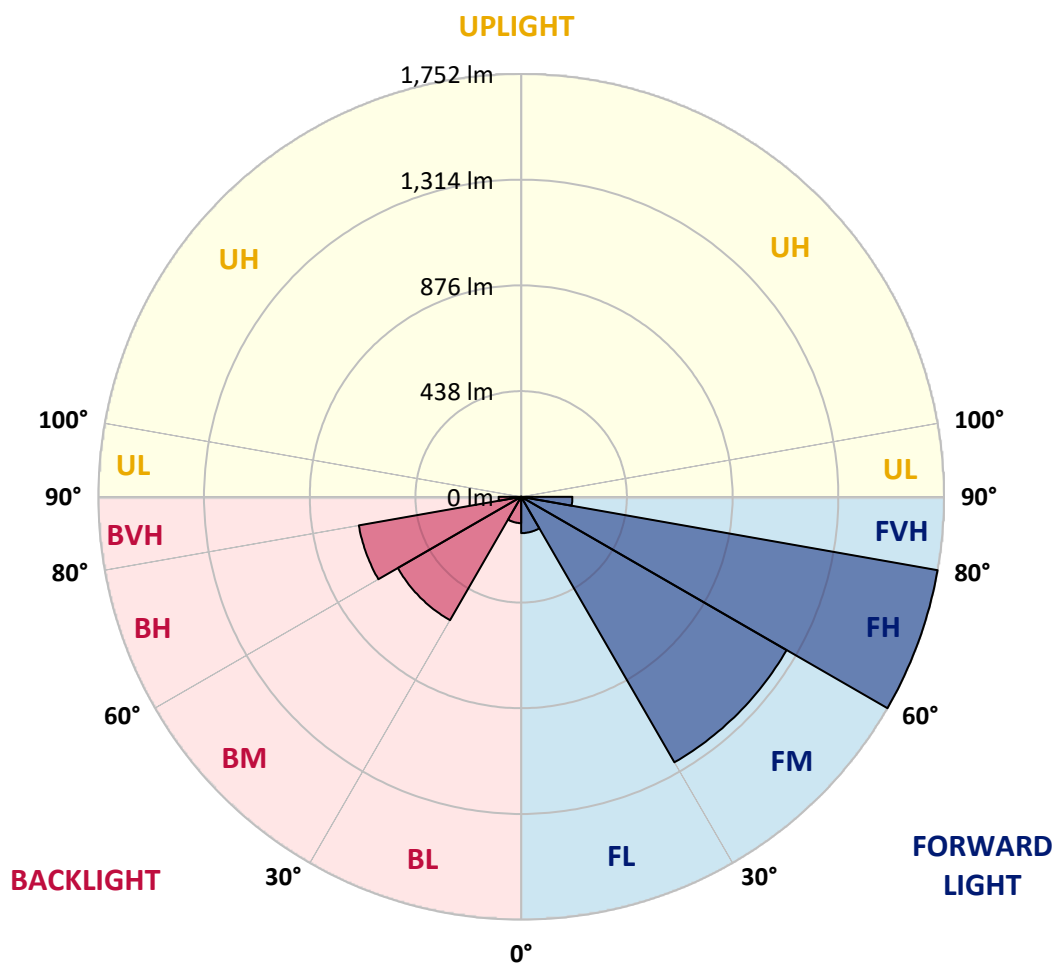
CATALOG NUMBER: TT-C3-LED-E1-DL-LWR-LW-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	150.4	3.1			
FM	(30°-60°)	1269.6	26.1			
FH	(60°-80°)	1751.6	36.0			G1/1800
FVH	(80°-90°)	212.2	4.4			G2/225
BL	(0°-30°)	109.0	2.2	B0/110		
BM	(30°-60°)	590.2	12.1	B1/1000		
BH	(60°-80°)	682.9	14.1	B2/1000		G2/1000
BVH	(80°-90°)	93.6	1.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



REPORT NUMBER: P198168

CATALOG NUMBER: TT-C3-LED-E1-DL-LWR-LW-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2
2.5°	230.0	231.0	231.0	231.0	230.0	229.1	229.1	228.1	227.1	227.1	226.1
5°	240.8	240.8	240.8	239.9	238.9	237.9	236.9	235.9	233.0	231.0	230.0
7.5°	253.6	253.6	253.6	252.6	250.7	247.7	248.7	245.8	242.8	238.9	235.0
10°	268.4	269.4	270.3	267.4	265.4	262.5	261.5	257.6	253.6	248.7	243.8
12.5°	286.1	285.1	287.1	284.1	282.1	277.2	276.2	271.3	264.4	258.5	252.6
15°	307.7	308.7	307.7	305.7	301.8	296.9	296.9	290.0	282.1	273.3	263.5
17.5°	338.2	338.2	334.2	333.3	326.4	320.5	318.5	312.6	299.8	289.0	277.2
20°	371.6	369.6	364.7	365.7	359.8	351.0	349.0	339.2	325.4	308.7	293.0
22.5°	409.9	408.0	402.1	401.1	393.2	386.3	386.3	372.6	353.9	332.3	310.6
25°	440.4	441.4	442.4	443.4	437.5	426.6	425.7	410.9	386.3	358.8	330.3
27.5°	477.8	482.7	481.7	486.6	483.7	473.8	471.9	456.1	425.7	393.2	357.8
30°	520.0	526.9	523.0	532.8	532.8	525.9	522.0	506.3	475.8	429.6	387.3
32.5°	567.2	568.2	574.1	586.9	592.8	588.9	585.9	571.2	531.8	480.7	425.7
35°	621.3	616.4	626.2	650.8	659.6	660.6	659.6	641.9	606.5	543.6	473.8
37.5°	675.4	673.4	692.1	716.7	743.2	754.0	749.1	743.2	692.1	613.4	524.0
40°	726.5	735.3	759.9	790.4	832.7	858.2	859.2	847.4	794.3	699.0	583.9
42.5°	776.6	794.3	825.8	878.9	932.9	974.2	969.3	959.5	913.3	799.2	660.6
45°	845.4	863.1	894.6	958.5	1045.0	1096.1	1097.1	1114.8	1075.5	933.9	764.8
47.5°	908.3	924.1	970.3	1055.8	1162.0	1255.4	1251.4	1277.0	1226.9	1057.8	846.4
50°	994.9	989.9	1057.8	1176.7	1321.2	1439.2	1464.8	1477.5	1383.2	1213.1	933.9
52.5°	1071.5	1066.6	1151.2	1310.4	1490.3	1642.7	1628.9	1660.4	1621.1	1423.5	1120.7
55°	1148.2	1148.2	1254.4	1463.8	1700.7	1900.3	1912.0	1965.1	1859.0	1580.8	1186.6
57.5°	1232.8	1241.6	1392.0	1653.5	1943.5	2161.7	2163.7	2168.6	1997.6	1643.7	1204.2
60°	1314.3	1337.9	1533.6	1840.3	2135.2	2314.1	2329.8	2262.0	2050.7	1684.0	1211.1
62.5°	1404.8	1428.4	1668.3	1995.6	2276.8	2376.1	2371.1	2304.3	2138.2	1797.0	1298.6
65°	1472.6	1516.9	1767.5	2102.8	2330.8	2448.8	2450.8	2439.0	2285.6	1893.4	1335.0
67.5°	1541.4	1608.3	1818.7	2144.1	2369.2	2431.1	2428.2	2382.9	2225.6	1839.3	1262.2
70°	1615.2	1664.3	1854.0	2106.7	2254.2	2262.0	2265.0	2200.1	2072.3	1728.2	1170.8
72.5°	1640.7	1676.1	1800.0	1951.4	2020.2	2018.2	1990.7	1966.1	1858.0	1558.1	1040.1
75°	1595.5	1598.5	1617.1	1683.0	1714.5	1687.9	1702.7	1666.3	1604.4	1338.9	886.7
77.5°	1418.6	1413.6	1360.6	1337.0	1337.9	1332.0	1333.0	1288.8	1262.2	1103.0	719.6
80°	1106.9	1105.9	1063.7	997.8	977.2	971.3	977.2	955.5	931.0	832.7	547.6
82.5°	767.8	756.0	737.3	685.2	682.2	670.4	673.4	669.5	657.7	591.8	388.3
85°	372.6	388.3	405.0	401.1	388.3	390.3	403.1	402.1	388.3	339.2	226.1
87.5°	51.1	73.7	76.7	73.7	93.4	117.0	93.4	95.4	76.7	78.6	50.1
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: P198168

CATALOG NUMBER: TT-C3-LED-E1-DL-LWR-LW-7060

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2	221.2
2.5°	225.1	224.1	223.2	222.2	221.2	220.2	219.2	219.2	218.2	218.2	218.2
5°	229.1	228.1	226.1	224.1	223.2	221.2	220.2	219.2	217.3	217.3	216.3
7.5°	233.0	232.0	229.1	226.1	224.1	222.2	221.2	220.2	219.2	217.3	217.3
10°	240.8	237.9	234.0	230.0	226.1	224.1	222.2	221.2	221.2	220.2	220.2
12.5°	248.7	245.8	238.9	234.0	229.1	226.1	224.1	224.1	223.2	223.2	222.2
15°	258.5	254.6	246.7	239.9	234.0	231.0	228.1	228.1	228.1	228.1	228.1
17.5°	270.3	264.4	255.6	247.7	241.8	237.9	235.0	235.0	234.0	235.0	235.9
20°	286.1	278.2	266.4	256.6	249.7	246.7	244.8	243.8	243.8	244.8	245.8
22.5°	300.8	292.0	276.2	266.4	260.5	255.6	254.6	254.6	253.6	255.6	255.6
25°	318.5	307.7	291.0	278.2	270.3	266.4	266.4	266.4	267.4	268.4	266.4
27.5°	342.1	329.3	306.7	291.0	284.1	280.2	278.2	280.2	281.2	282.1	280.2
30°	365.7	351.9	323.4	305.7	295.9	292.0	292.0	293.9	294.9	295.9	293.9
32.5°	398.1	377.5	347.0	324.4	313.6	309.7	309.7	310.6	310.6	312.6	311.6
35°	443.4	414.9	376.5	350.0	334.2	328.3	327.4	328.3	330.3	329.3	333.3
37.5°	486.6	454.2	406.0	377.5	361.8	352.9	349.0	348.0	350.0	351.0	351.9
40°	537.7	498.4	442.4	407.0	387.3	377.5	371.6	371.6	370.6	371.6	367.7
42.5°	603.6	559.4	488.6	443.4	415.8	407.0	396.2	393.2	390.3	391.3	385.4
45°	693.1	637.0	552.5	492.5	456.1	437.5	426.6	417.8	413.9	411.9	406.0
47.5°	755.0	695.0	603.6	538.7	500.4	475.8	459.1	447.3	437.5	432.5	433.5
50°	837.6	759.9	665.5	586.9	547.6	520.0	500.4	479.7	465.0	459.1	462.0
52.5°	993.9	900.5	754.0	661.6	595.7	565.3	544.6	519.1	497.4	486.6	489.6
55°	1046.0	950.6	815.9	721.6	662.6	625.2	592.8	562.3	533.8	516.1	517.1
57.5°	1050.9	956.5	826.8	748.1	707.8	682.2	651.8	611.5	572.1	547.6	545.6
60°	1046.0	949.6	824.8	745.2	716.7	715.7	697.0	661.6	615.4	579.0	576.1
62.5°	1114.8	1011.6	860.2	761.9	721.6	724.5	728.4	703.9	656.7	612.4	602.6
65°	1127.6	1018.4	874.9	782.5	752.0	746.1	743.2	726.5	688.1	640.0	632.1
67.5°	1064.7	961.4	830.7	751.1	730.4	743.2	754.0	739.3	702.9	666.5	655.7
70°	981.1	887.7	765.8	692.1	680.3	699.9	723.5	728.4	707.8	678.3	674.4
72.5°	869.0	790.4	683.2	624.2	619.3	634.1	661.6	684.2	681.3	674.4	672.4
75°	740.2	679.3	585.9	540.7	540.7	559.4	580.0	604.6	623.3	635.1	638.0
77.5°	609.5	548.5	479.7	441.4	446.3	470.9	485.6	510.2	530.9	546.6	547.6
80°	458.1	424.7	364.7	344.1	346.0	362.7	383.4	398.1	414.9	428.6	424.7
82.5°	331.3	300.8	259.5	247.7	255.6	263.5	280.2	293.0	297.9	301.8	309.7
85°	190.7	181.9	159.3	152.4	154.3	162.2	172.0	175.0	179.9	177.9	181.9
87.5°	46.2	49.2	46.2	45.2	46.2	44.2	42.3	51.1	52.1	53.1	51.1
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)