

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: P198228

Luminaire Tested: **TT-C3-LED-E1-DL-CG-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198228
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-C3-LED-E1-DL-CG-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5229.7 lumens
Efficiency: N/A
Efficacy: 78.6 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

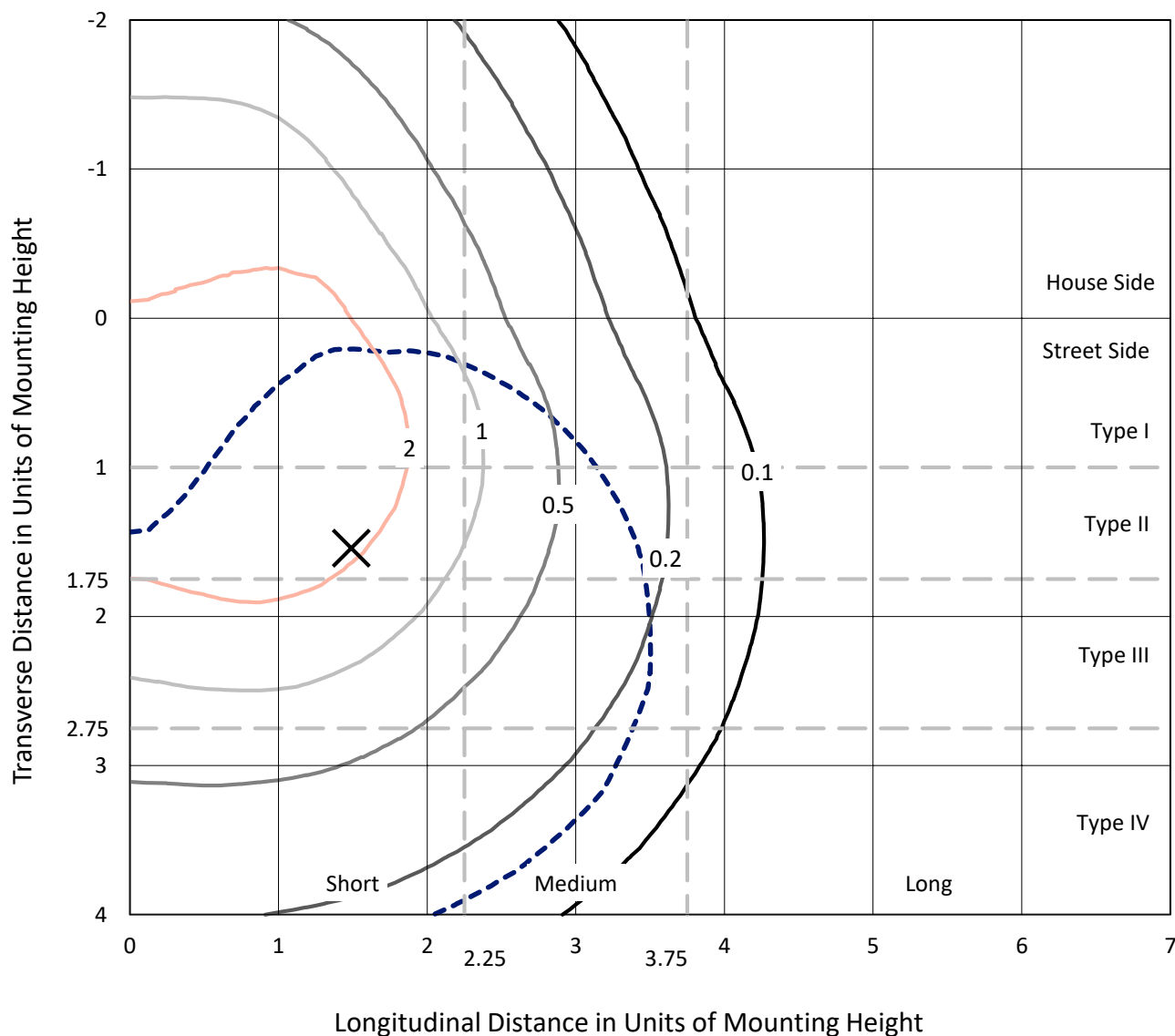


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

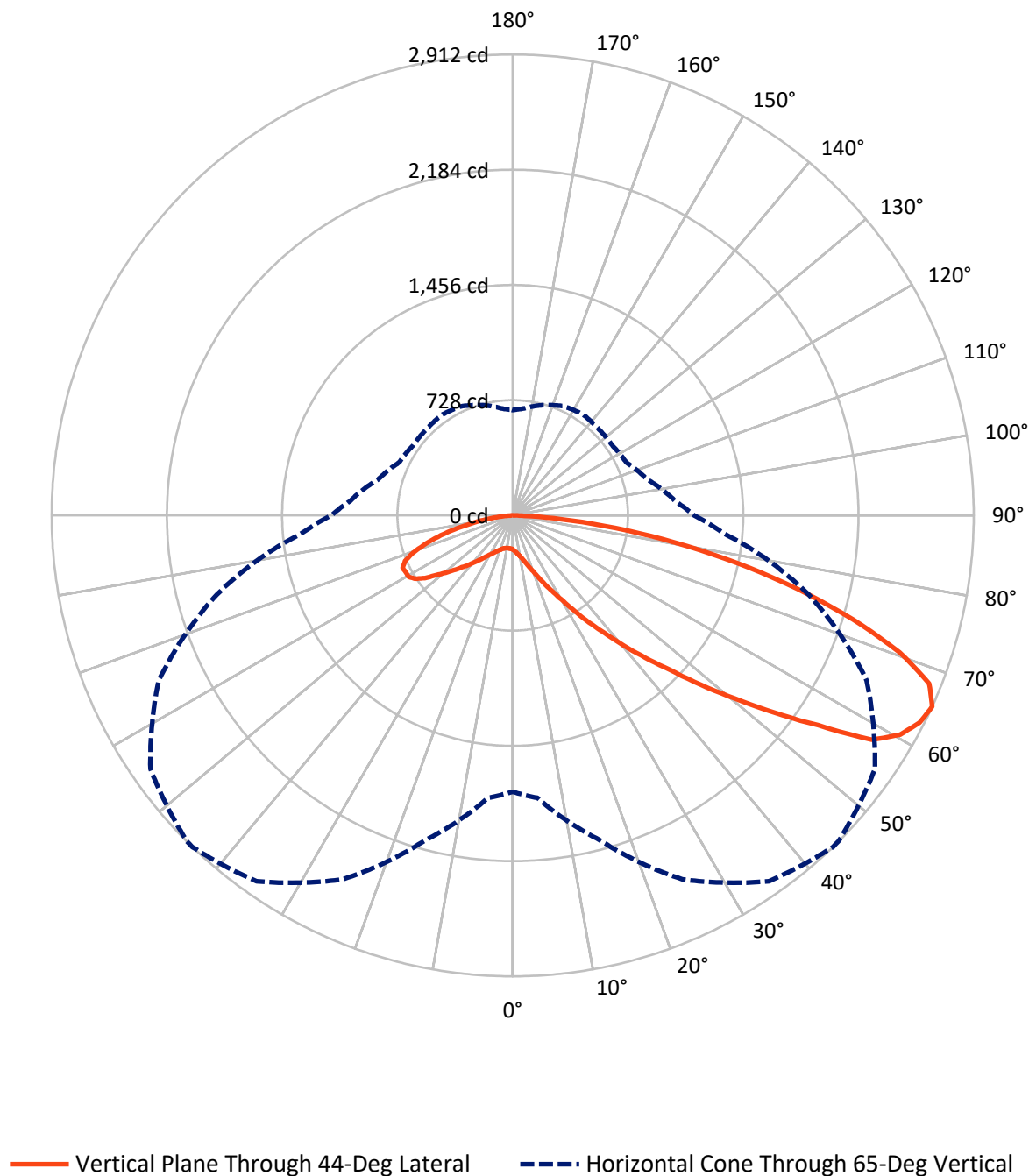


Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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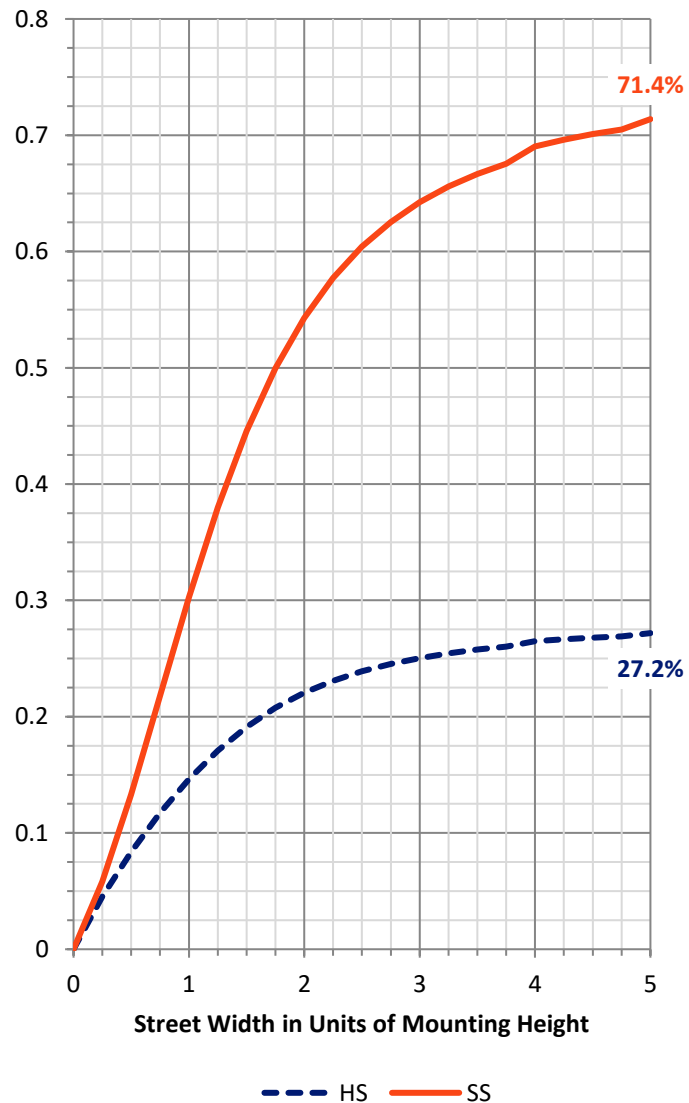
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1434.2	0.0	1434.2
	% Fixture	27.4	0.0	27.4
Street Side	Lumens	3795.5	0.0	3795.5
	% Fixture	72.6	0.0	72.6
Total	Lumens	5229.7	0.0	5229.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.7	0.4
10°-20°	76.1	1.5
20°-30°	170.7	3.3
30°-40°	348.2	6.7
40°-50°	669.5	12.8
50°-60°	1163.0	22.2
60°-70°	1489.5	28.5
70°-80°	1066.6	20.4
80°-90°	224.4	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°	5229.7	100.0
0°-180°	5229.7	100.0

Coefficient of Utilization



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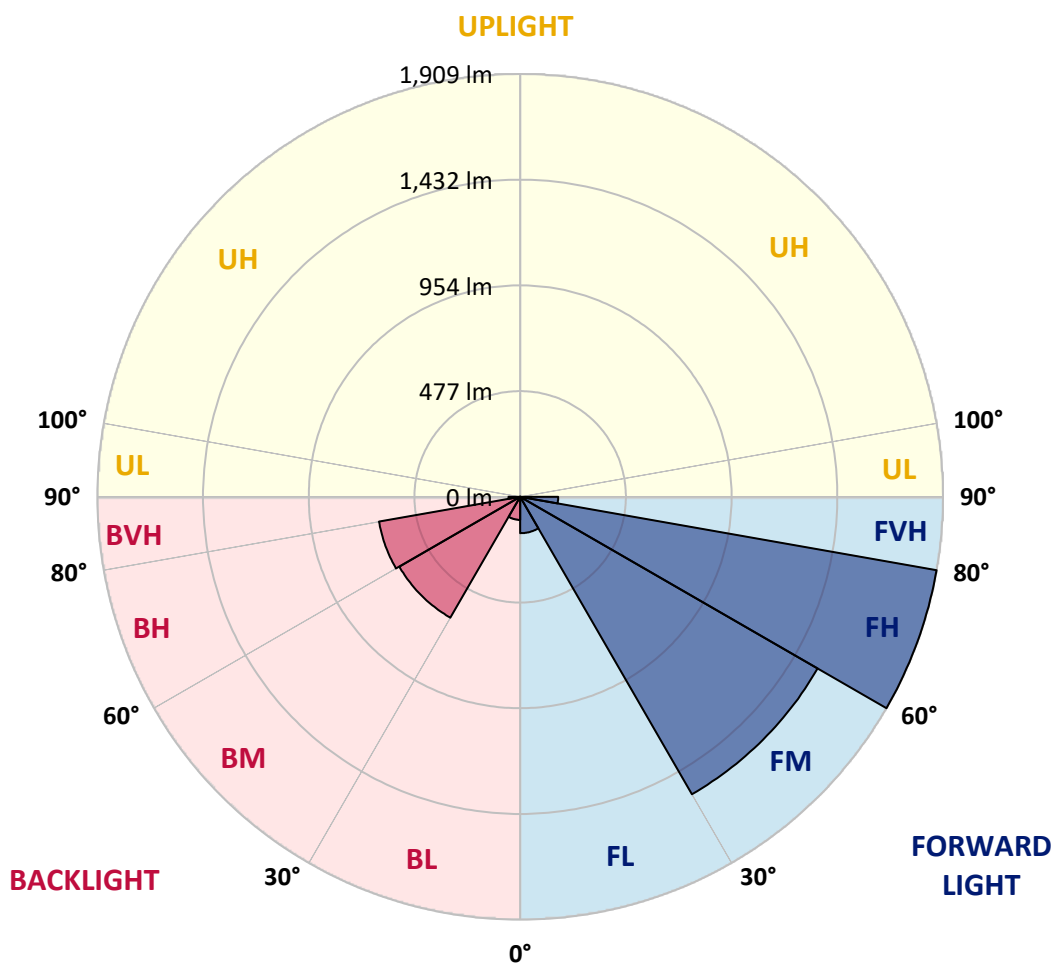
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	164.4	3.1			
FM	(30°-60°)	1550.6	29.7			
FH	(60°-80°)	1909.0	36.5			G2/5000
FVH	(80°-90°)	171.5	3.3			G2/225
BL	(0°-30°)	104.1	2.0	B0/110		
BM	(30°-60°)	630.0	12.0	B1/1000		
BH	(60°-80°)	647.1	12.4	B2/1000		G2/1000
BVH	(80°-90°)	52.9	1.0			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	215.3	215.3	215.3	215.3	215.3	215.3	215.3	215.3	215.3	215.3	215.3
2.5°	227.1	227.1	227.1	226.1	225.1	224.1	224.1	223.2	222.2	221.2	219.2
5°	240.8	239.9	239.9	237.9	236.9	235.0	235.0	233.0	230.0	227.1	224.1
7.5°	255.6	256.6	255.6	253.6	250.7	248.7	247.7	243.8	239.9	235.0	230.0
10°	273.3	274.3	274.3	272.3	269.4	264.4	264.4	258.5	252.6	246.7	237.9
12.5°	298.8	297.9	296.9	296.9	291.0	285.1	287.1	279.2	269.4	260.5	249.7
15°	322.4	324.4	326.4	321.5	317.5	311.6	310.6	300.8	290.0	277.2	263.5
17.5°	356.9	358.8	357.8	355.9	351.0	344.1	342.1	330.3	315.6	297.9	279.2
20°	401.1	402.1	398.1	396.2	392.2	383.4	380.4	366.7	347.0	322.4	299.8
22.5°	450.2	447.3	446.3	444.3	443.4	433.5	432.5	411.9	383.4	355.9	323.4
25°	492.5	495.5	497.4	500.4	499.4	489.6	489.6	466.0	431.6	394.2	352.9
27.5°	541.7	546.6	552.5	559.4	558.4	551.5	555.4	532.8	486.6	441.4	388.3
30°	594.8	602.6	612.4	629.2	634.1	627.2	627.2	598.7	553.5	492.5	427.6
32.5°	665.5	669.5	678.3	704.9	719.6	719.6	718.6	687.2	632.1	555.4	474.8
35°	739.3	740.2	763.8	796.3	815.0	829.7	822.8	792.3	730.4	636.0	534.8
37.5°	815.0	815.9	849.4	887.7	930.0	941.8	947.7	920.1	840.5	725.5	600.6
40°	890.7	903.4	942.8	995.8	1058.8	1082.3	1079.4	1054.8	959.5	823.8	672.4
42.5°	967.3	993.9	1034.2	1115.8	1190.5	1228.8	1230.8	1209.2	1108.9	952.6	765.8
45°	1058.8	1075.5	1137.4	1231.8	1338.9	1389.1	1394.0	1384.1	1289.8	1109.9	877.9
47.5°	1154.1	1169.8	1244.6	1363.5	1497.2	1598.5	1607.3	1598.5	1481.5	1242.6	978.1
50°	1258.3	1264.2	1353.7	1512.9	1706.6	1817.7	1823.6	1827.5	1669.2	1413.6	1075.5
52.5°	1355.6	1357.6	1472.6	1681.0	1928.8	2067.4	2074.3	2066.4	1941.5	1627.9	1258.3
55°	1452.0	1453.9	1599.4	1873.7	2167.6	2339.7	2382.9	2386.9	2160.8	1765.6	1307.5
57.5°	1541.4	1550.3	1748.9	2065.4	2437.0	2673.9	2671.0	2605.1	2289.5	1817.7	1318.3
60°	1622.0	1650.6	1891.4	2280.7	2655.2	2811.5	2827.3	2682.8	2334.8	1840.3	1309.4
62.5°	1690.9	1722.3	2026.1	2451.7	2791.9	2884.3	2878.4	2714.2	2398.7	1918.9	1367.4
65°	1745.9	1791.1	2122.4	2536.3	2821.4	2911.8	2910.8	2792.9	2466.5	1935.6	1343.8
67.5°	1776.4	1846.2	2137.2	2538.3	2798.8	2837.1	2823.3	2676.9	2339.7	1828.5	1229.8
70°	1793.1	1838.3	2101.8	2426.2	2604.1	2593.3	2596.3	2418.3	2121.4	1649.6	1093.2
72.5°	1732.2	1769.5	1954.3	2184.4	2301.3	2246.3	2271.8	2108.7	1844.2	1406.8	921.1
75°	1580.8	1598.5	1687.9	1834.4	1897.3	1859.9	1859.9	1742.0	1488.4	1154.1	744.2
77.5°	1323.2	1329.1	1363.5	1442.1	1459.8	1449.0	1446.1	1344.8	1142.3	881.8	556.4
80°	945.7	967.3	982.1	1016.5	1053.8	1038.1	1017.5	935.9	799.2	603.6	383.4
82.5°	586.9	588.9	603.6	626.2	632.1	652.8	649.8	584.9	482.7	360.8	224.1
85°	274.3	269.4	283.1	298.8	307.7	306.7	313.6	282.1	223.2	165.2	102.2
87.5°	43.3	60.9	64.9	63.9	70.8	71.8	74.7	67.8	46.2	32.4	24.6
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°	215.3	215.3	215.3	215.3	215.3	215.3	215.3	215.3	215.3	215.3	215.3
2.5°	218.2	218.2	216.3	214.3	212.3	211.4	210.4	209.4	209.4	208.4	208.4
5°	223.2	221.2	218.2	215.3	212.3	210.4	208.4	207.4	205.5	204.5	204.5
7.5°	227.1	225.1	220.2	216.3	212.3	209.4	206.4	204.5	203.5	202.5	202.5
10°	235.0	231.0	225.1	218.2	213.3	209.4	206.4	204.5	203.5	202.5	202.5
12.5°	245.8	239.9	230.0	223.2	216.3	211.4	208.4	206.4	204.5	204.5	203.5
15°	257.6	250.7	238.9	228.1	220.2	215.3	211.4	210.4	208.4	208.4	208.4
17.5°	271.3	263.5	248.7	235.9	227.1	221.2	217.3	215.3	214.3	215.3	216.3
20°	289.0	278.2	259.5	245.8	235.0	229.1	226.1	223.2	223.2	225.1	225.1
22.5°	309.7	296.9	274.3	257.6	246.7	238.9	236.9	235.0	234.0	235.9	235.9
25°	331.3	316.5	290.0	271.3	258.5	251.7	249.7	247.7	248.7	249.7	246.7
27.5°	364.7	344.1	309.7	288.0	273.3	266.4	263.5	262.5	263.5	264.4	262.5
30°	396.2	371.6	333.3	307.7	289.0	282.1	279.2	279.2	280.2	280.2	280.2
32.5°	439.4	409.0	359.8	329.3	310.6	301.8	300.8	300.8	298.8	299.8	298.8
35°	490.5	454.2	396.2	358.8	337.2	327.4	324.4	322.4	322.4	322.4	322.4
37.5°	545.6	501.4	433.5	392.2	367.7	355.9	350.0	347.0	348.0	348.0	346.0
40°	607.5	556.4	477.8	426.6	404.0	386.3	379.5	376.5	375.5	373.6	368.6
42.5°	690.1	625.2	531.8	470.9	437.5	424.7	411.9	406.0	401.1	400.1	392.2
45°	787.4	717.6	601.6	533.8	489.6	461.1	448.3	438.4	429.6	426.6	420.7
47.5°	868.0	783.5	663.6	587.9	538.7	509.2	488.6	473.8	462.0	455.2	457.1
50°	958.5	864.1	734.3	639.0	590.8	559.4	539.7	515.1	497.4	486.6	490.5
52.5°	1106.9	1001.7	832.7	727.5	644.9	613.4	587.9	559.4	535.8	521.0	528.9
55°	1148.2	1038.1	879.8	783.5	719.6	685.2	646.9	611.5	578.0	558.4	558.4
57.5°	1146.2	1035.2	883.8	799.2	761.9	737.3	708.8	664.5	621.3	592.8	590.8
60°	1131.5	1020.4	873.9	788.4	759.9	764.8	753.0	715.7	664.5	625.2	619.3
62.5°	1169.8	1056.8	899.5	799.2	757.9	762.9	772.7	751.1	700.9	651.8	645.9
65°	1145.3	1031.2	878.9	791.4	768.8	769.7	776.6	760.9	720.6	675.4	665.5
67.5°	1045.0	944.7	809.1	733.4	718.6	736.3	757.9	753.0	718.6	688.1	676.3
70°	918.2	829.7	713.7	650.8	640.0	665.5	701.9	708.8	699.0	679.3	675.4
72.5°	777.6	699.9	601.6	554.4	550.5	570.2	606.5	630.1	637.0	645.9	645.9
75°	624.2	563.3	478.7	446.3	446.3	467.9	497.4	527.9	546.6	570.2	577.1
77.5°	473.8	420.7	360.8	333.3	333.3	352.9	375.5	400.1	431.6	464.0	459.1
80°	324.4	290.0	246.7	233.0	230.0	240.8	260.5	277.2	304.7	326.4	339.2
82.5°	185.8	174.0	148.4	136.6	135.7	149.4	163.2	165.2	183.8	196.6	200.5
85°	88.5	77.7	72.7	64.9	65.9	68.8	73.7	77.7	82.6	87.5	87.5
87.5°	19.7	18.7	16.7	17.7	17.7	15.7	17.7	16.7	18.7	19.7	17.7
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)