

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: P198167

Luminaire Tested: **TT-C3-LED-E1-DL-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198167
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4896.4 lumens
Efficiency: N/A
Efficacy: 73.6 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



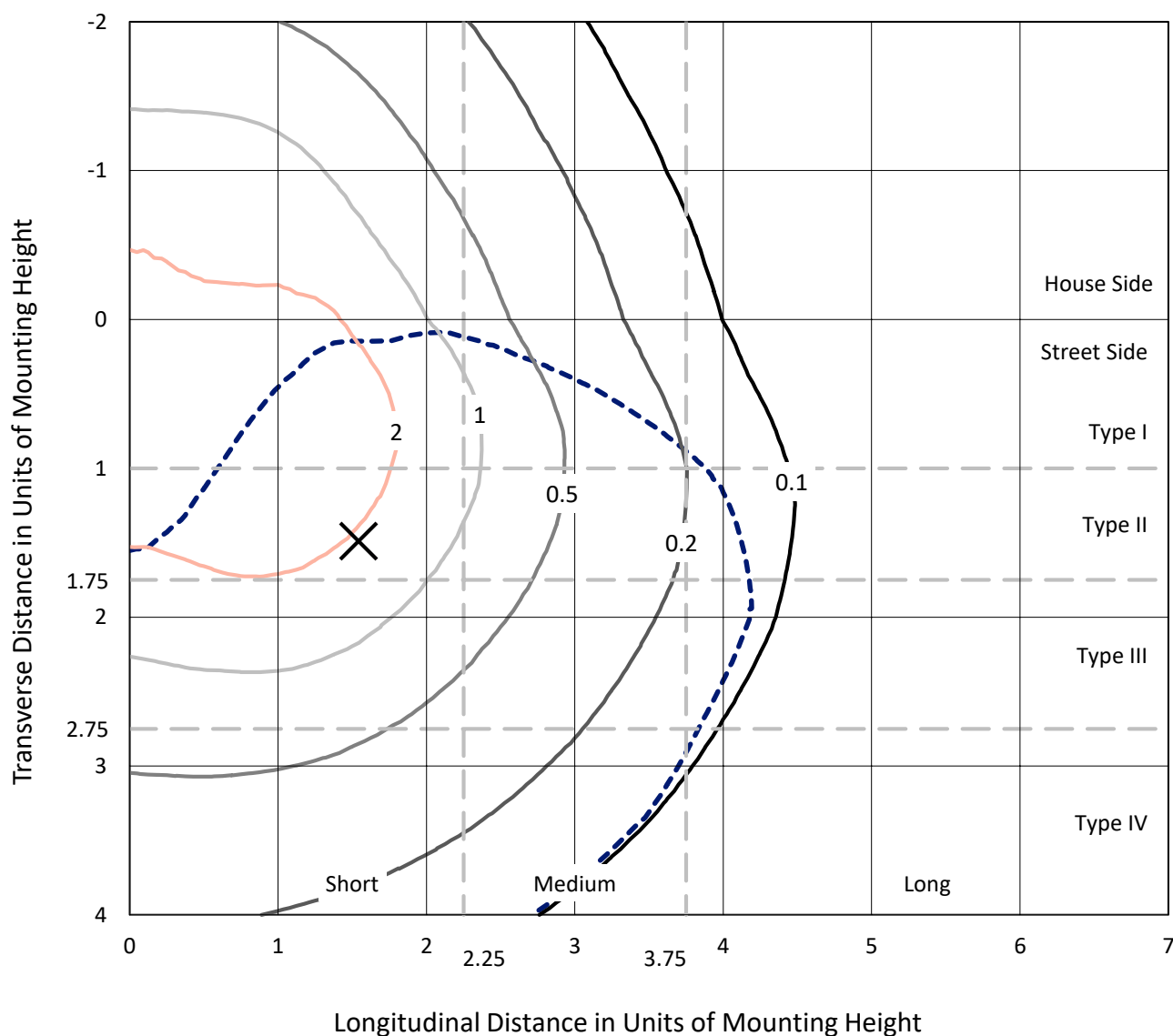
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

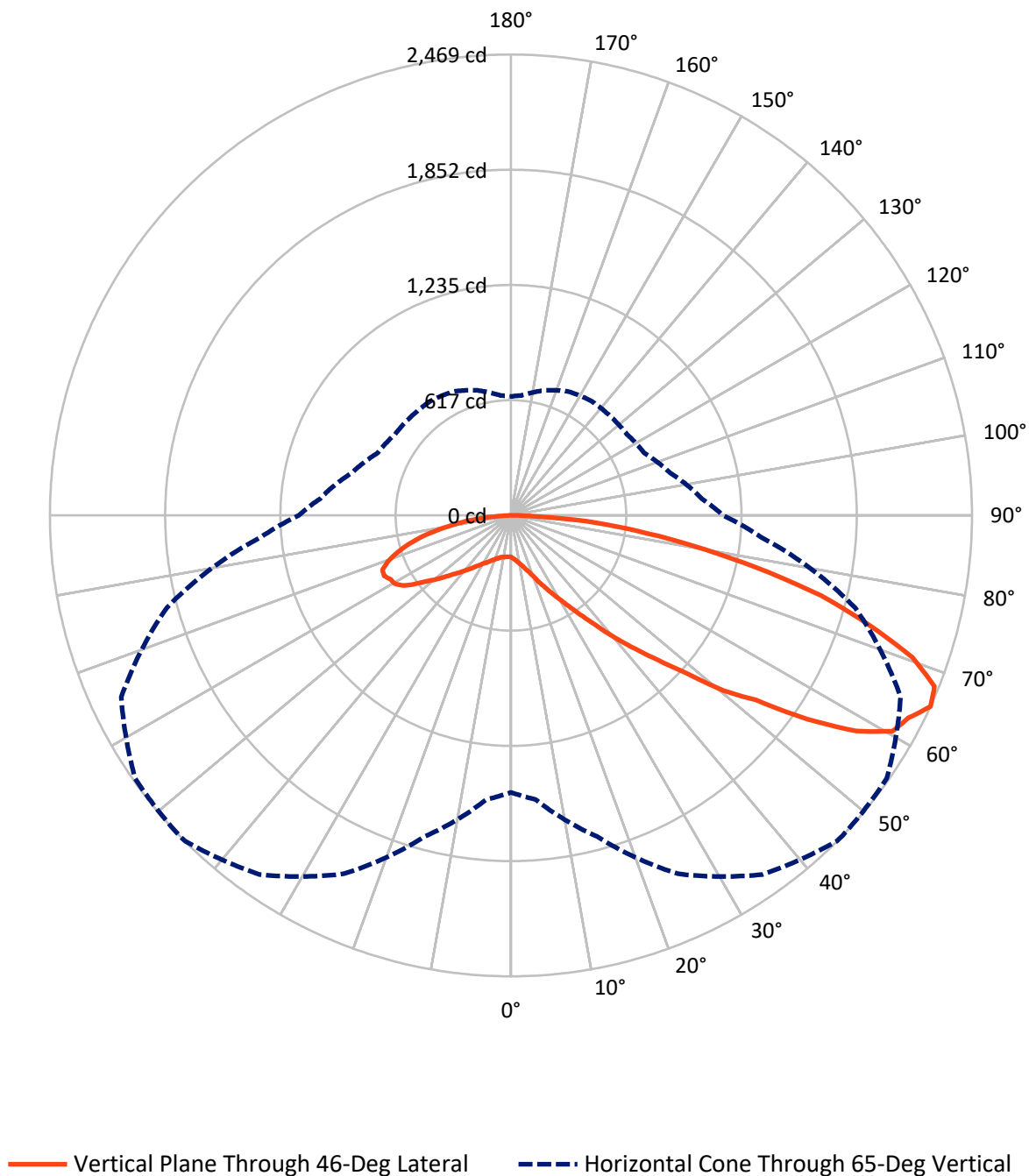


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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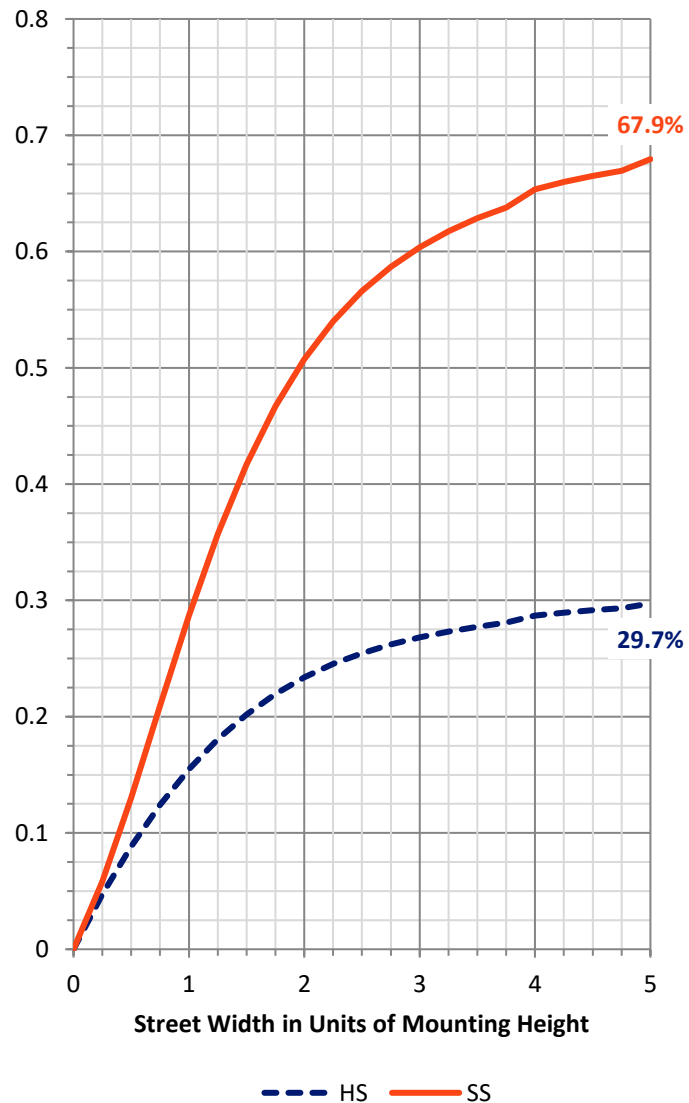
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1486.9	0.0	1486.9
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	3409.5	0.0	3409.5
	% Fixture	69.6	0.0	69.6
Total	Lumens	4896.4	0.0	4896.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.5	0.5
10°-20°	76.8	1.6
20°-30°	162.1	3.3
30°-40°	308.0	6.3
40°-50°	568.8	11.6
50°-60°	997.1	20.4
60°-70°	1353.0	27.6
70°-80°	1100.0	22.5
80°-90°	308.1	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°	4896.4	100.0
0°-180°	4896.4	100.0

Coefficient of Utilization



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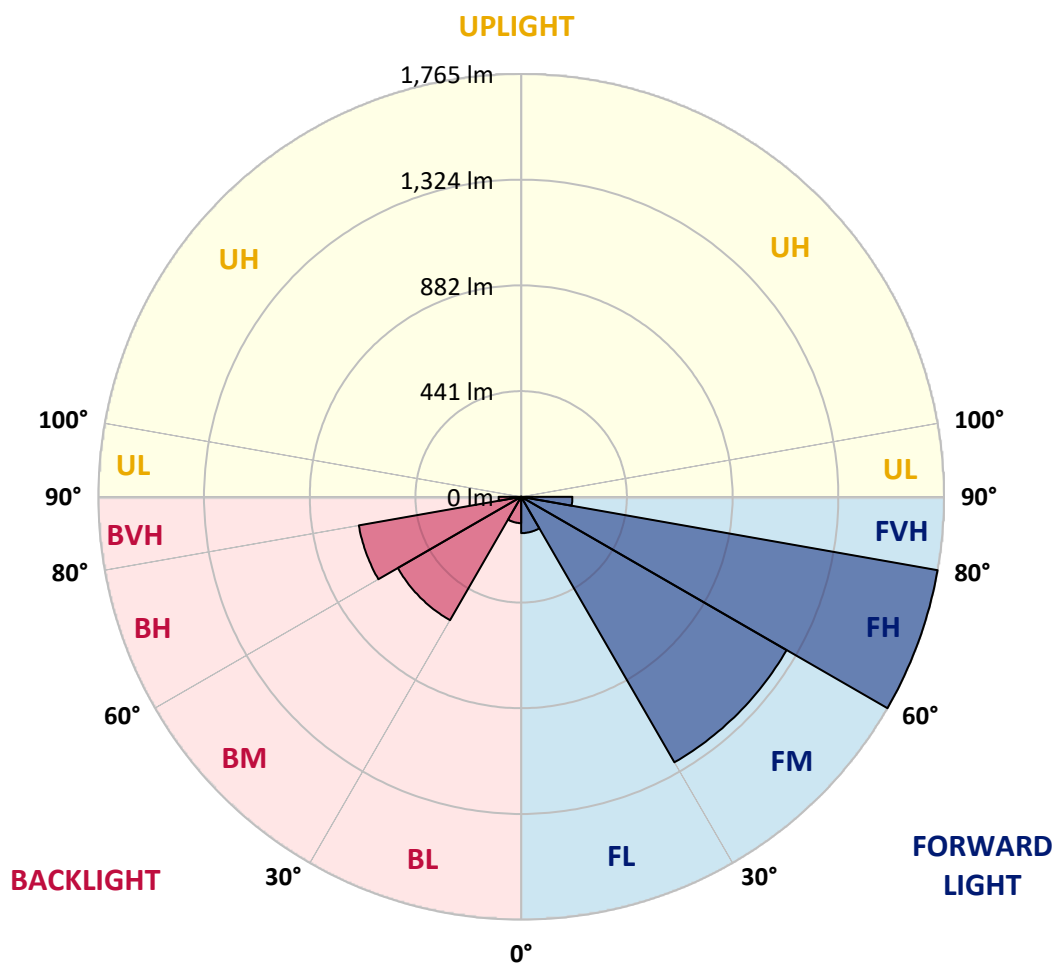
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	151.5	3.1			
FM	(30°-60°)	1279.3	26.1			
FH	(60°-80°)	1764.9	36.0			G1/1800
FVH	(80°-90°)	213.9	4.4			G2/225
BL	(0°-30°)	109.8	2.2	B0/110		
BM	(30°-60°)	594.6	12.1	B1/1000		
BH	(60°-80°)	688.1	14.1	B2/1000		G2/1000
BVH	(80°-90°)	94.3	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9
2.5°	231.8	232.8	232.8	232.8	231.8	230.8	230.8	229.8	228.8	228.8	227.8
5°	242.7	242.7	242.7	241.7	240.7	239.7	238.7	237.7	234.8	232.8	231.8
7.5°	255.6	255.6	255.6	254.6	252.6	249.6	250.6	247.6	244.7	240.7	236.7
10°	270.4	271.4	272.4	269.4	267.4	264.5	263.5	259.5	255.6	250.6	245.7
12.5°	288.2	287.3	289.2	286.3	284.3	279.3	278.3	273.4	266.5	260.5	254.6
15°	310.0	311.0	310.0	308.1	304.1	299.1	299.1	292.2	284.3	275.4	265.5
17.5°	340.7	340.7	336.8	335.8	328.9	322.9	320.9	315.0	302.1	291.2	279.3
20°	374.4	372.4	367.5	368.5	362.5	353.6	351.6	341.7	327.9	311.0	295.2
22.5°	413.1	411.1	405.1	404.1	396.2	389.3	389.3	375.4	356.6	334.8	313.0
25°	443.8	444.8	445.7	446.7	440.8	429.9	428.9	414.0	389.3	361.5	332.8
27.5°	481.4	486.4	485.4	490.3	487.3	477.4	475.5	459.6	428.9	396.2	360.6
30°	524.0	530.9	527.0	536.9	536.9	529.9	526.0	510.1	479.4	432.9	390.3
32.5°	571.5	572.5	578.5	591.4	597.3	593.3	590.4	575.5	535.9	484.4	428.9
35°	626.0	621.1	631.0	655.7	664.7	665.6	664.7	646.8	611.2	547.8	477.4
37.5°	680.5	678.5	697.3	722.1	748.8	759.7	754.8	748.8	697.3	618.1	528.0
40°	732.0	740.9	765.7	796.4	839.0	864.7	865.7	853.8	800.4	704.3	588.4
42.5°	782.5	800.4	832.1	885.5	940.0	981.6	976.7	966.8	920.2	805.3	665.6
45°	851.9	869.7	901.4	965.8	1052.9	1104.5	1105.4	1123.3	1083.6	941.0	770.6
47.5°	915.3	931.1	977.7	1063.8	1170.8	1264.9	1261.0	1286.7	1236.2	1065.8	852.9
50°	1002.4	997.5	1065.8	1185.7	1331.3	1450.1	1475.9	1488.8	1393.7	1222.3	941.0
52.5°	1079.7	1074.7	1159.9	1320.4	1501.7	1655.2	1641.3	1673.0	1633.4	1434.3	1129.2
55°	1156.9	1156.9	1263.9	1474.9	1713.6	1914.7	1926.6	1980.1	1873.1	1592.8	1195.6
57.5°	1242.1	1251.1	1402.6	1666.1	1958.3	2178.2	2180.2	2185.1	2012.8	1656.2	1213.4
60°	1324.3	1348.1	1545.2	1854.3	2151.4	2331.7	2347.6	2279.2	2066.3	1696.8	1220.3
62.5°	1415.5	1439.3	1680.9	2010.8	2294.1	2394.1	2389.2	2321.8	2154.4	1810.7	1308.5
65°	1483.8	1528.4	1781.0	2118.8	2348.6	2467.4	2469.4	2457.5	2303.0	1907.8	1345.2
67.5°	1553.2	1620.5	1832.5	2160.4	2387.2	2449.6	2446.6	2401.1	2242.6	1853.3	1271.9
70°	1627.5	1677.0	1868.2	2122.7	2271.3	2279.2	2282.2	2216.8	2088.1	1741.4	1179.7
72.5°	1653.2	1688.9	1813.7	1966.2	2035.6	2033.6	2005.8	1981.1	1872.1	1570.0	1048.0
75°	1607.6	1610.6	1629.4	1695.8	1727.5	1700.8	1715.6	1679.0	1616.6	1349.1	893.5
77.5°	1429.3	1424.4	1370.9	1347.1	1348.1	1342.2	1343.2	1298.6	1271.9	1111.4	725.1
80°	1115.3	1114.4	1071.8	1005.4	984.6	978.7	984.6	962.8	938.0	839.0	551.7
82.5°	773.6	761.7	742.9	690.4	687.4	675.5	678.5	674.6	662.7	596.3	391.3
85°	375.4	391.3	408.1	404.1	391.3	393.2	406.1	405.1	391.3	341.7	227.8
87.5°	51.5	74.3	77.3	74.3	94.1	117.9	94.1	96.1	77.3	79.2	50.5
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°	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9
2.5°	226.8	225.8	224.9	223.9	222.9	221.9	220.9	220.9	219.9	219.9	219.9
5°	230.8	229.8	227.8	225.8	224.9	222.9	221.9	220.9	218.9	218.9	217.9
7.5°	234.8	233.8	230.8	227.8	225.8	223.9	222.9	221.9	220.9	218.9	218.9
10°	242.7	239.7	235.7	231.8	227.8	225.8	223.9	222.9	222.9	221.9	221.9
12.5°	250.6	247.6	240.7	235.7	230.8	227.8	225.8	225.8	224.9	224.9	223.9
15°	260.5	256.5	248.6	241.7	235.7	232.8	229.8	229.8	229.8	229.8	229.8
17.5°	272.4	266.5	257.5	249.6	243.7	239.7	236.7	236.7	235.7	236.7	237.7
20°	288.2	280.3	268.4	258.5	251.6	248.6	246.6	245.7	245.7	246.6	247.6
22.5°	303.1	294.2	278.3	268.4	262.5	257.5	256.5	256.5	255.6	257.5	257.5
25°	320.9	310.0	293.2	280.3	272.4	268.4	268.4	268.4	269.4	270.4	268.4
27.5°	344.7	331.8	309.0	293.2	286.3	282.3	280.3	282.3	283.3	284.3	282.3
30°	368.5	354.6	325.9	308.1	298.2	294.2	294.2	296.2	297.2	298.2	296.2
32.5°	401.2	380.4	349.7	326.9	316.0	312.0	312.0	313.0	313.0	315.0	314.0
35°	446.7	418.0	379.4	352.6	336.8	330.8	329.8	330.8	332.8	331.8	335.8
37.5°	490.3	457.6	409.1	380.4	364.5	355.6	351.6	350.7	352.6	353.6	354.6
40°	541.8	502.2	445.7	410.1	390.3	380.4	374.4	374.4	373.4	374.4	370.5
42.5°	608.2	563.6	492.3	446.7	419.0	410.1	399.2	396.2	393.2	394.2	388.3
45°	698.3	641.9	556.7	496.3	459.6	440.8	429.9	421.0	417.0	415.0	409.1
47.5°	760.7	700.3	608.2	542.8	504.2	479.4	462.6	450.7	440.8	435.8	436.8
50°	843.9	765.7	670.6	591.4	551.7	524.0	504.2	483.4	468.5	462.6	465.6
52.5°	1001.4	907.3	759.7	666.6	600.3	569.6	548.8	523.0	501.2	490.3	493.3
55°	1053.9	957.9	822.1	727.1	667.6	630.0	597.3	566.6	537.9	520.0	521.0
57.5°	1058.9	963.8	833.0	753.8	713.2	687.4	656.7	616.1	576.5	551.7	549.7
60°	1053.9	956.9	831.1	750.8	722.1	721.1	702.3	666.6	620.1	583.4	580.5
62.5°	1123.3	1019.3	866.7	767.7	727.1	730.0	734.0	709.2	661.7	617.1	607.2
65°	1136.1	1026.2	881.6	788.5	757.8	751.8	748.8	732.0	693.4	644.8	636.9
67.5°	1072.8	968.7	837.0	756.8	736.0	748.8	759.7	744.9	708.2	671.6	660.7
70°	988.6	894.5	771.6	697.3	685.5	705.3	729.0	734.0	713.2	683.5	679.5
72.5°	875.6	796.4	688.4	629.0	624.0	638.9	666.6	689.4	686.4	679.5	677.5
75°	745.9	684.5	590.4	544.8	544.8	563.6	584.4	609.2	628.0	639.9	642.9
77.5°	614.1	552.7	483.4	444.8	449.7	474.5	489.3	514.1	534.9	550.7	551.7
80°	461.6	427.9	367.5	346.7	348.7	365.5	386.3	401.2	418.0	431.9	427.9
82.5°	333.8	303.1	261.5	249.6	257.5	265.5	282.3	295.2	300.1	304.1	312.0
85°	192.2	183.2	160.5	153.5	155.5	163.4	173.3	176.3	181.3	179.3	183.2
87.5°	46.6	49.5	46.6	45.6	46.6	44.6	42.6	51.5	52.5	53.5	51.5
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)