

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: P197856

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115498)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C3-LED-E1-WQ-CG-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5121.6 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 45
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

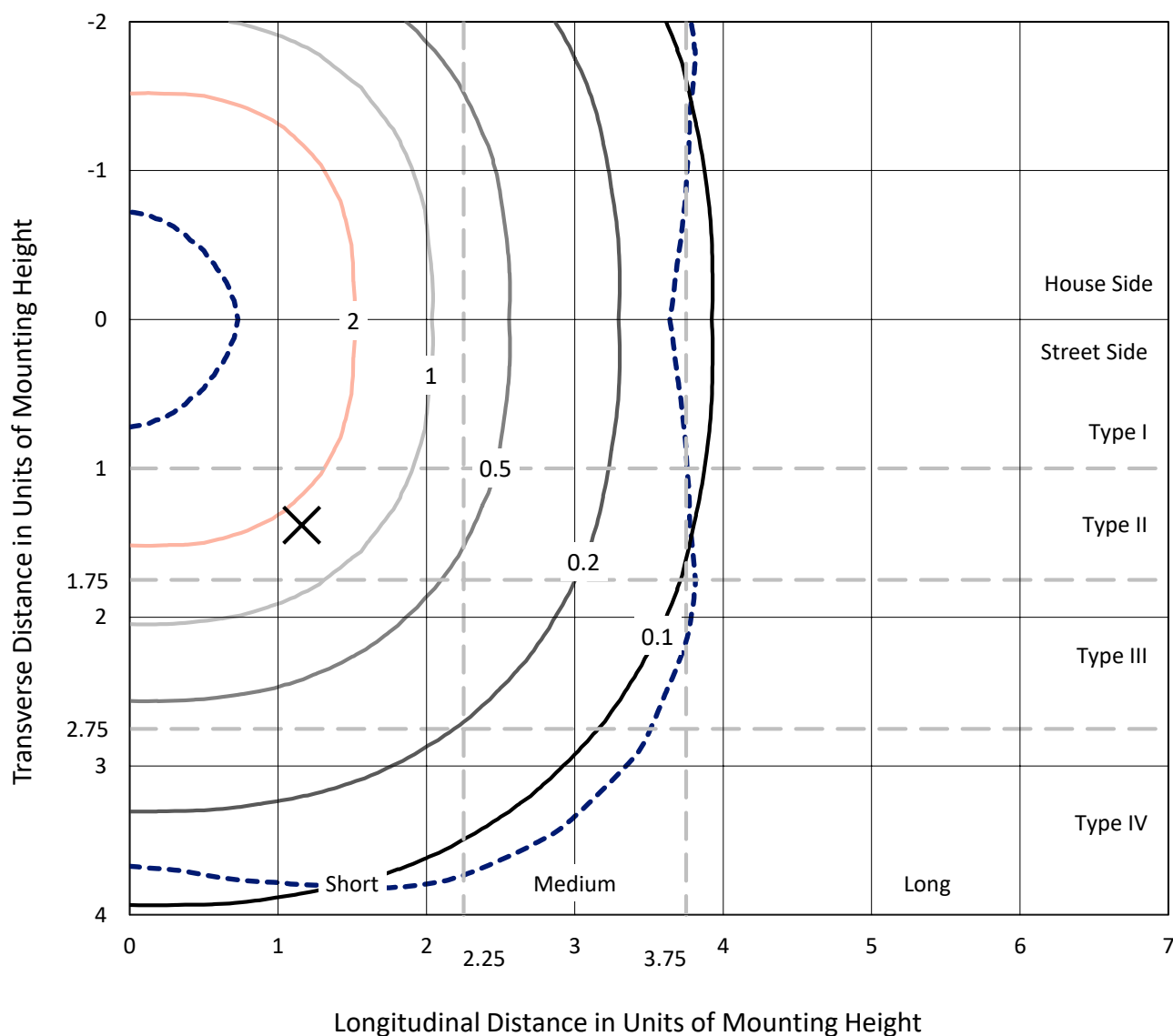


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

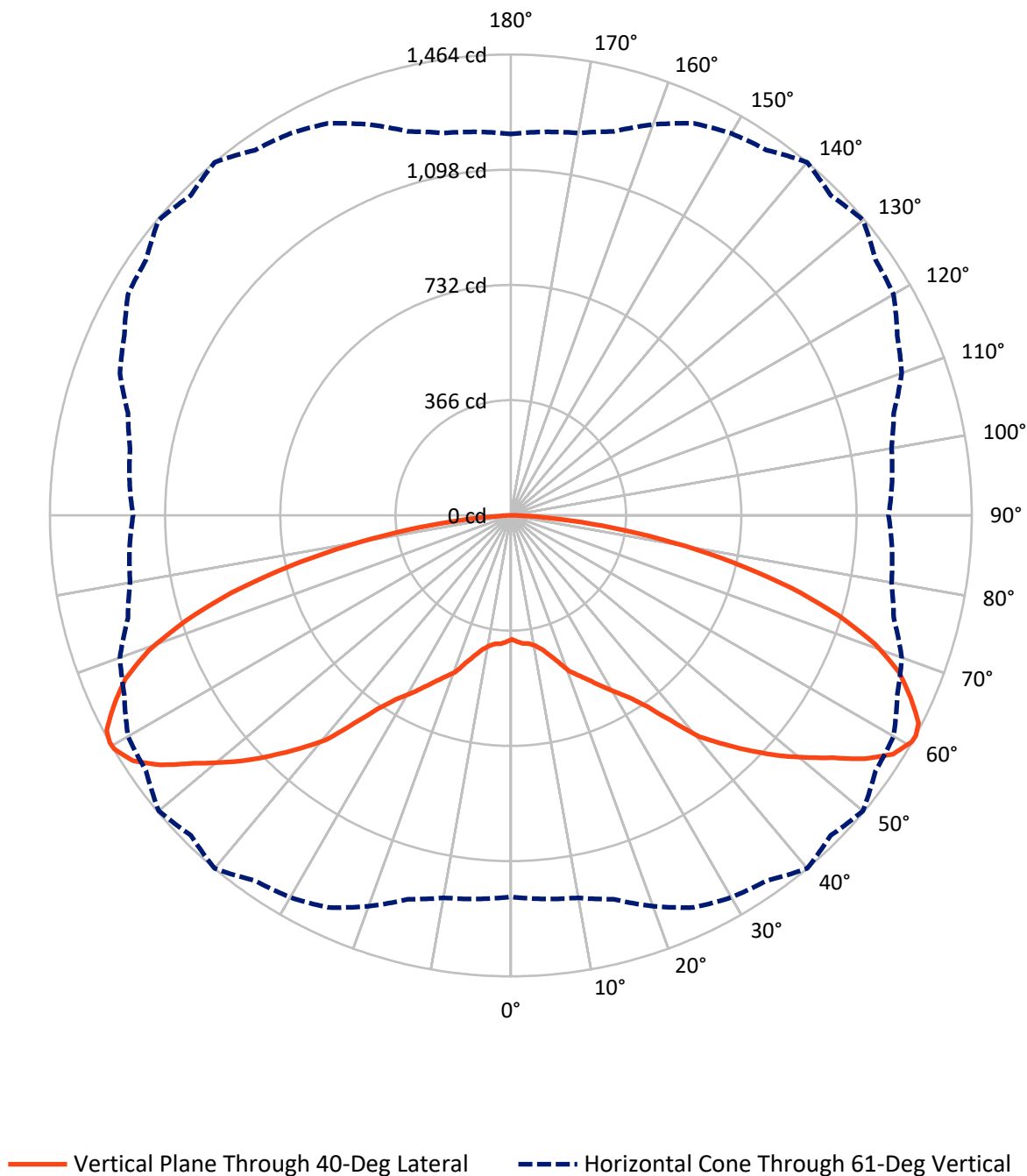


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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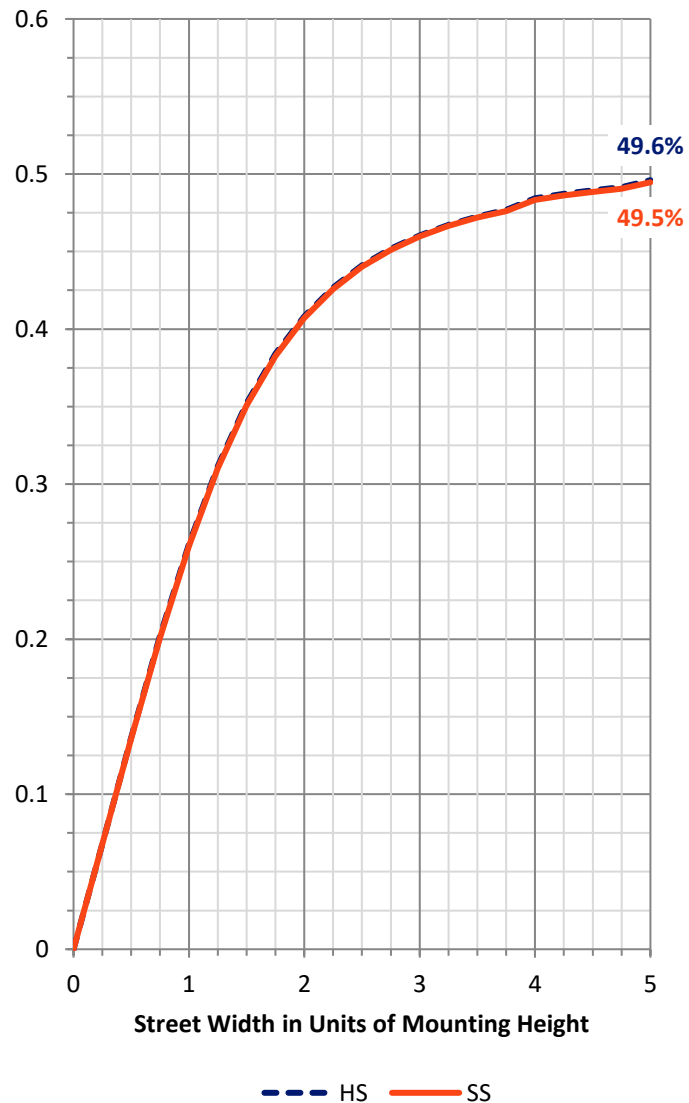
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2560.8	0.0	2560.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2560.8	0.0	2560.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	5121.6	0.0	5121.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	0.8
10°-20°	132.4	2.6
20°-30°	268.6	5.2
30°-40°	467.1	9.1
40°-50°	786.2	15.4
50°-60°	1132.7	22.1
60°-70°	1256.9	24.5
70°-80°	853.6	16.7
80°-90°	184.9	3.6
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°	5121.6	100.0
0°-180°	5121.6	100.0

Coefficient of Utilization



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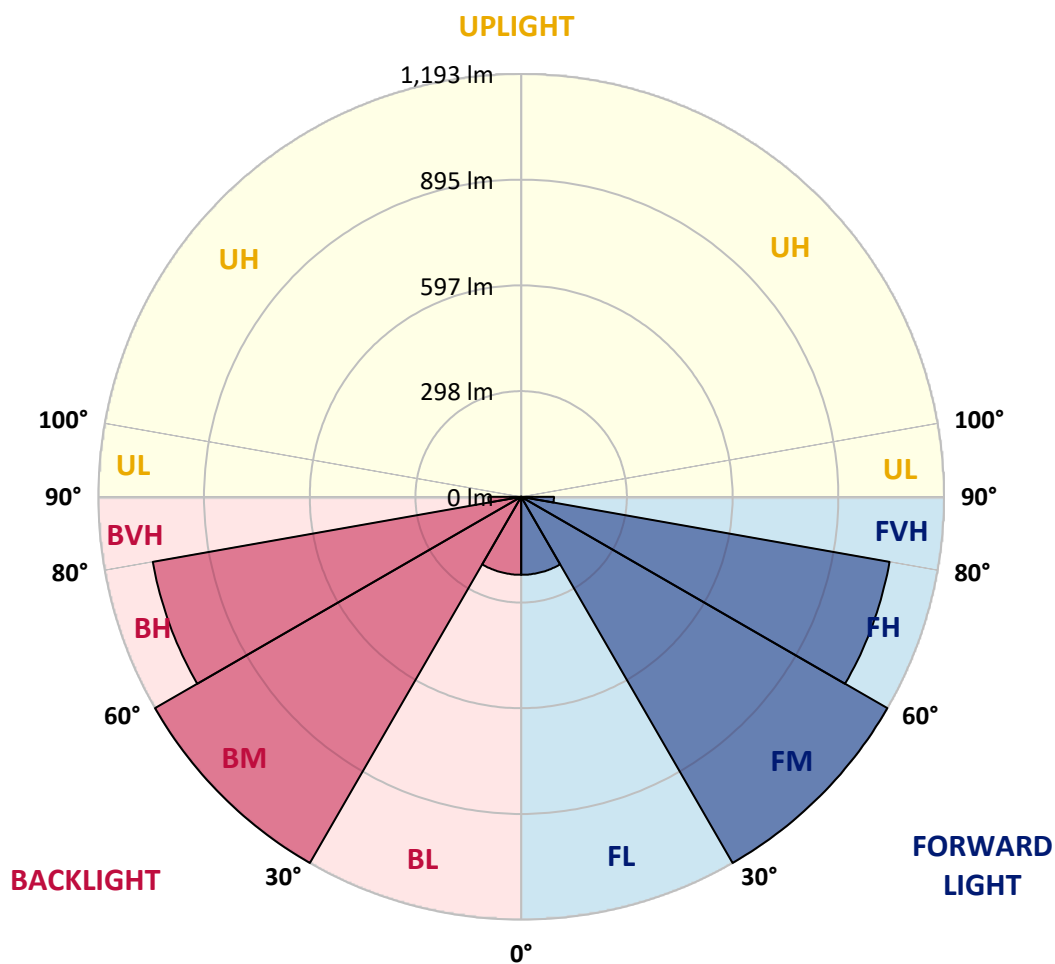
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	220.1	4.3			
FM	(30°-60°)	1193.0	23.3			
FH	(60°-80°)	1055.3	20.6			G1/1800
FVH	(80°-90°)	92.4	1.8			G1/100
BL	(0°-30°)	220.1	4.3	B1/500		
BM	(30°-60°)	1193.0	23.3	B2/2500		
BH	(60°-80°)	1055.3	20.6	B3/2500		G1/1800
BVH	(80°-90°)	92.4	1.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5
2.5°	402.8	402.8	402.8	402.8	402.8	401.8	402.8	401.8	401.8	401.8	401.8
5°	405.9	406.9	406.9	406.9	406.9	408.0	408.0	409.0	409.0	409.0	409.0
7.5°	409.0	409.0	409.0	409.0	409.0	409.0	410.0	410.0	411.1	411.1	412.1
10°	421.4	421.4	422.5	422.5	421.4	421.4	421.4	420.4	420.4	419.4	419.4
12.5°	439.0	439.0	440.1	441.1	441.1	440.1	439.0	437.0	435.9	435.9	435.9
15°	452.5	453.5	455.6	457.7	458.7	458.7	459.7	459.7	459.7	458.7	457.7
17.5°	478.4	478.4	479.4	480.5	480.5	481.5	483.6	485.6	489.8	490.8	487.7
20°	515.7	516.7	519.8	518.8	518.8	520.8	522.9	523.9	527.1	529.1	529.1
22.5°	543.6	545.7	549.8	549.8	548.8	549.8	551.9	551.9	551.9	550.9	552.9
25°	565.4	567.4	570.5	570.5	572.6	577.8	584.0	583.0	579.9	579.9	578.8
27.5°	594.4	595.4	597.5	597.5	600.6	603.7	607.8	612.0	614.0	613.0	610.9
30°	630.6	632.7	634.7	631.6	636.8	639.9	642.0	642.0	650.3	654.4	647.2
32.5°	657.5	661.7	665.8	668.9	679.3	684.4	681.3	684.4	688.6	692.7	692.7
35°	702.0	706.2	709.3	711.4	721.7	729.0	737.3	745.5	744.5	741.4	747.6
37.5°	766.2	770.4	773.5	777.6	791.1	796.3	802.5	820.1	826.3	818.0	822.2
40°	834.6	841.8	852.2	864.6	884.3	890.5	900.9	913.3	924.7	928.8	918.5
42.5°	893.6	901.9	904.0	923.6	947.5	966.1	980.6	983.7	994.0	1003.4	996.1
45°	956.8	964.0	969.2	985.8	999.2	1025.1	1048.9	1060.3	1065.5	1064.5	1072.7
47.5°	1015.8	1024.1	1031.3	1048.9	1065.5	1087.2	1102.8	1129.7	1139.0	1126.6	1140.0
50°	1052.0	1062.4	1071.7	1104.8	1133.8	1156.6	1169.0	1191.8	1208.4	1200.1	1203.2
52.5°	1112.1	1116.2	1123.5	1142.1	1180.4	1233.2	1245.7	1258.1	1278.8	1289.2	1270.5
55°	1188.7	1200.1	1210.5	1234.3	1253.9	1293.3	1350.2	1365.8	1364.7	1396.8	1367.9
57.5°	1205.3	1221.8	1242.6	1286.0	1324.4	1347.1	1383.4	1426.9	1431.0	1433.1	1437.2
60°	1207.4	1217.7	1231.2	1267.4	1334.7	1376.1	1396.8	1424.8	1462.1	1435.2	1463.1
61°	1211.5	1222.9	1233.2	1262.2	1321.3	1374.1	1401.0	1416.5	1464.1	1437.2	1460.0
62.5°	1204.2	1217.7	1233.2	1261.2	1300.5	1354.4	1406.2	1406.2	1453.8	1436.2	1448.6
65°	1160.8	1173.2	1203.2	1239.5	1287.1	1315.0	1368.9	1403.1	1395.8	1426.9	1395.8
67.5°	1087.2	1097.6	1123.5	1165.9	1217.7	1257.1	1281.9	1336.8	1329.5	1361.6	1326.4
70°	983.7	997.2	1029.3	1058.2	1106.9	1148.3	1181.5	1214.6	1229.1	1226.0	1228.1
72.5°	859.4	868.8	897.7	929.8	968.2	1014.8	1044.8	1065.5	1088.3	1087.2	1091.4
75°	715.5	723.8	748.6	772.5	809.7	846.0	880.1	901.9	920.5	919.5	915.4
77.5°	551.9	561.2	589.2	609.9	627.5	667.9	693.8	708.3	723.8	723.8	725.9
80°	385.2	391.4	413.2	434.9	451.5	471.1	504.3	507.4	525.0	520.8	525.0
82.5°	231.9	236.1	252.7	265.1	276.5	295.1	310.6	316.9	327.2	323.1	329.3
85°	104.6	106.7	117.0	124.3	129.4	139.8	148.1	151.2	156.4	155.3	159.5
87.5°	21.7	23.8	26.9	29.0	30.0	34.2	37.3	37.3	39.3	39.3	40.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5
2.5°	401.8	402.8	401.8	401.8	401.8	402.8	401.8	402.8
5°	409.0	409.0	409.0	408.0	406.9	406.9	406.9	405.9
7.5°	413.2	413.2	412.1	411.1	410.0	411.1	411.1	411.1
10°	421.4	423.5	424.5	424.5	423.5	423.5	423.5	422.5
12.5°	435.9	437.0	440.1	441.1	442.1	441.1	438.0	437.0
15°	455.6	455.6	456.6	458.7	458.7	454.6	451.5	450.4
17.5°	483.6	482.5	480.5	480.5	481.5	479.4	476.3	476.3
20°	526.0	521.9	519.8	516.7	519.8	519.8	513.6	510.5
22.5°	556.0	551.9	546.7	543.6	547.8	550.9	543.6	539.5
25°	581.9	583.0	574.7	570.5	571.6	573.6	564.3	563.3
27.5°	608.9	610.9	606.8	599.5	597.5	601.6	594.4	592.3
30°	642.0	641.0	643.0	633.7	629.6	632.7	631.6	626.5
32.5°	685.5	680.3	682.4	674.1	665.8	665.8	659.6	653.4
35°	745.5	734.1	729.0	723.8	708.3	709.3	704.1	698.9
37.5°	824.2	806.6	792.1	795.2	772.5	770.4	767.3	760.0
40°	914.3	906.0	889.5	880.1	856.3	844.9	840.8	827.3
42.5°	981.6	983.7	958.8	942.3	923.6	904.0	901.9	888.4
45°	1054.1	1046.9	1024.1	997.2	988.9	965.1	961.9	948.5
47.5°	1126.6	1101.7	1088.3	1060.3	1046.9	1016.8	1018.9	1006.5
50°	1194.9	1165.9	1153.5	1120.4	1099.7	1069.6	1062.4	1041.7
52.5°	1267.4	1240.5	1220.8	1178.4	1148.3	1125.6	1113.1	1104.8
55°	1364.7	1337.8	1293.3	1253.9	1229.1	1191.8	1187.7	1173.2
57.5°	1410.3	1390.6	1342.0	1314.0	1269.5	1231.2	1218.7	1189.8
60°	1415.5	1407.2	1355.4	1328.5	1263.3	1232.2	1216.7	1199.1
61°	1414.4	1404.1	1354.4	1321.3	1259.1	1228.1	1215.6	1200.1
62.5°	1410.3	1397.9	1343.0	1308.8	1250.8	1220.8	1210.5	1187.7
65°	1396.8	1362.7	1315.0	1284.0	1220.8	1193.9	1169.0	1146.3
67.5°	1337.8	1273.6	1253.9	1214.6	1150.4	1120.4	1097.6	1077.9
70°	1211.5	1169.0	1148.3	1099.7	1047.9	1023.0	997.2	972.3
72.5°	1063.4	1035.5	1017.9	958.8	920.5	895.7	871.9	848.0
75°	897.7	877.0	844.9	800.4	766.2	741.4	719.6	708.3
77.5°	705.2	691.7	666.8	622.3	603.7	581.9	560.2	542.6
80°	507.4	497.0	477.3	445.3	429.7	408.0	392.4	377.9
82.5°	315.8	307.5	296.1	272.3	266.1	252.7	238.2	227.8
85°	151.2	146.0	141.9	126.3	125.3	113.9	108.7	102.5
87.5°	39.3	38.3	36.2	31.1	30.0	26.9	24.9	21.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)