

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: P197855

Luminaire Tested: **TT-C3-LED-E1-WQ-CG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197855
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5240.5 lumens
Efficiency: N/A
Efficacy: 116.5 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

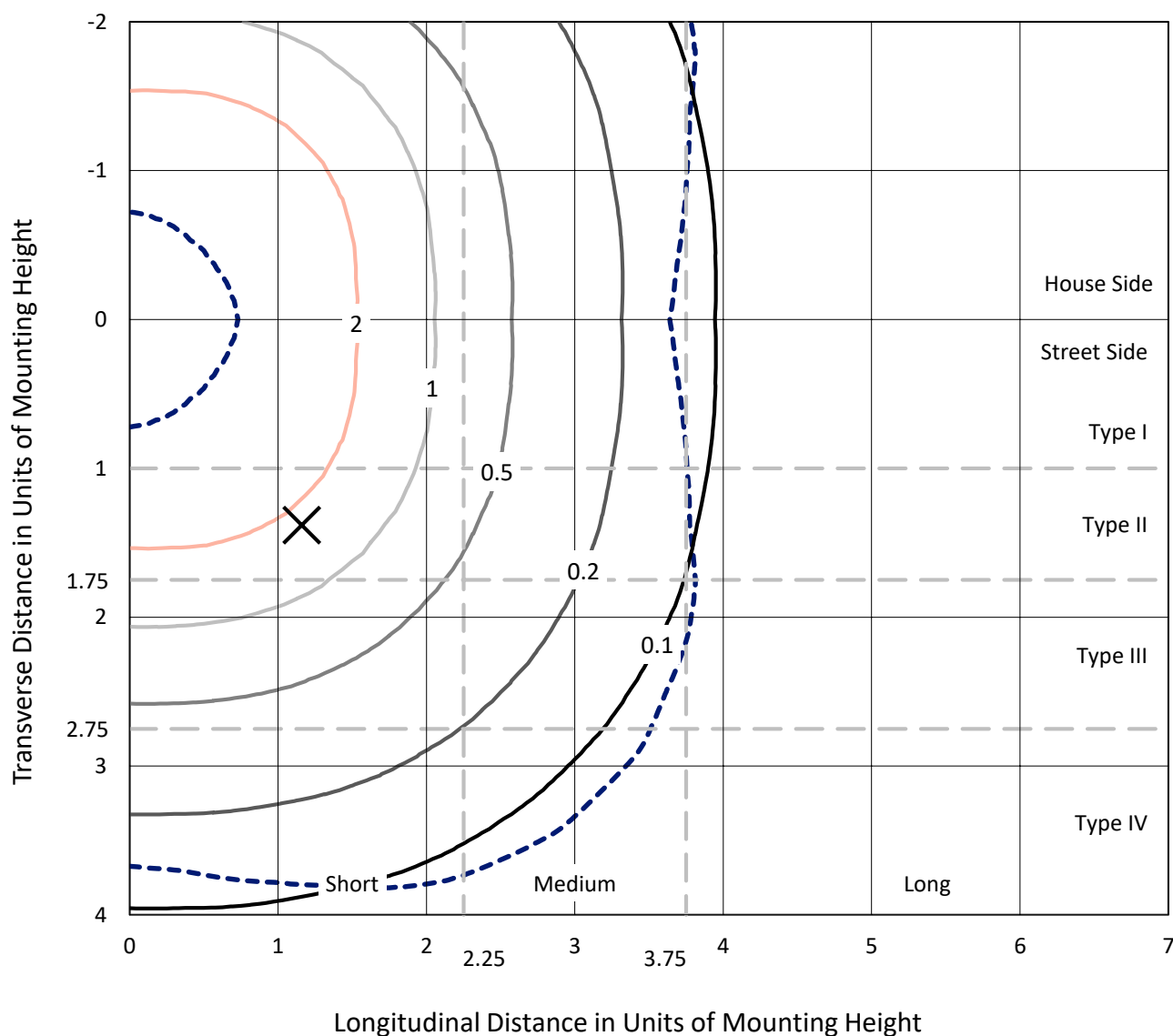


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

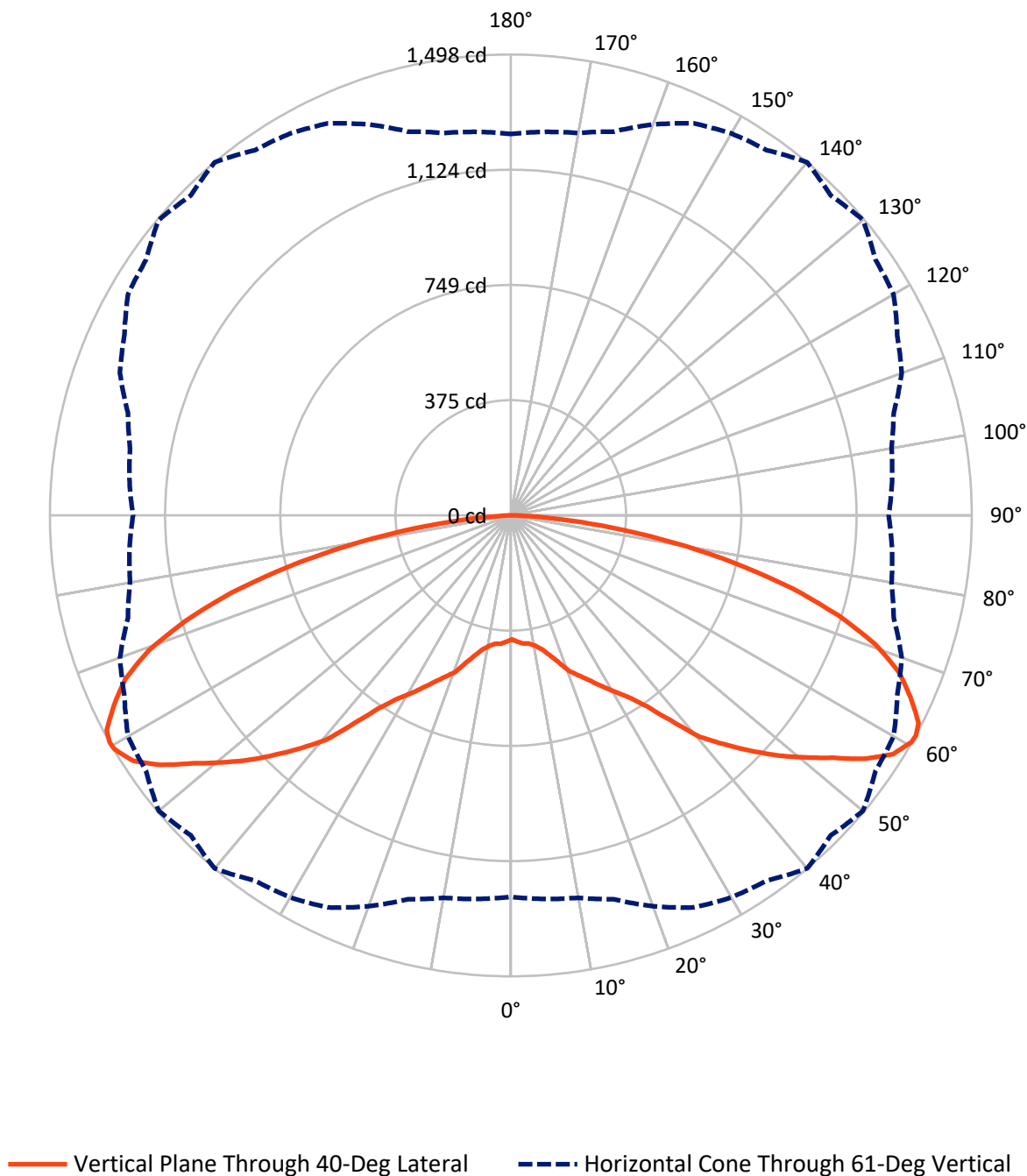


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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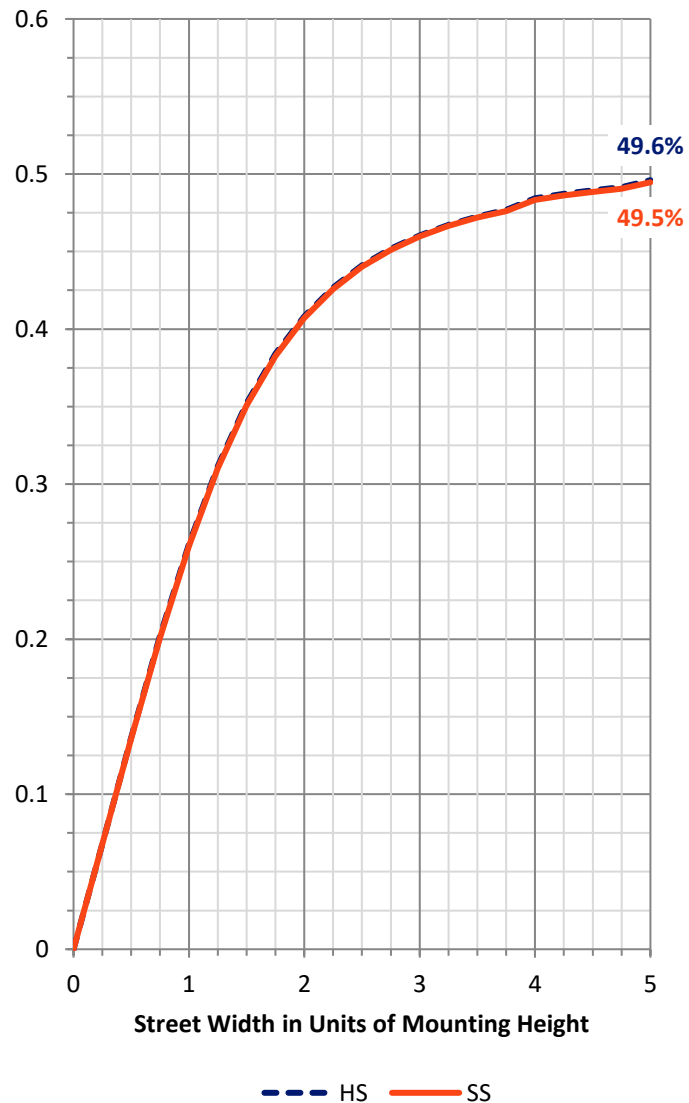
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2620.2	0.0	2620.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2620.2	0.0	2620.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	5240.5	0.0	5240.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	0.8
10°-20°	135.5	2.6
20°-30°	274.8	5.2
30°-40°	477.9	9.1
40°-50°	804.5	15.4
50°-60°	1159.0	22.1
60°-70°	1286.1	24.5
70°-80°	873.4	16.7
80°-90°	189.2	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°	5240.5	100.0
0°-180°	5240.5	100.0

Coefficient of Utilization



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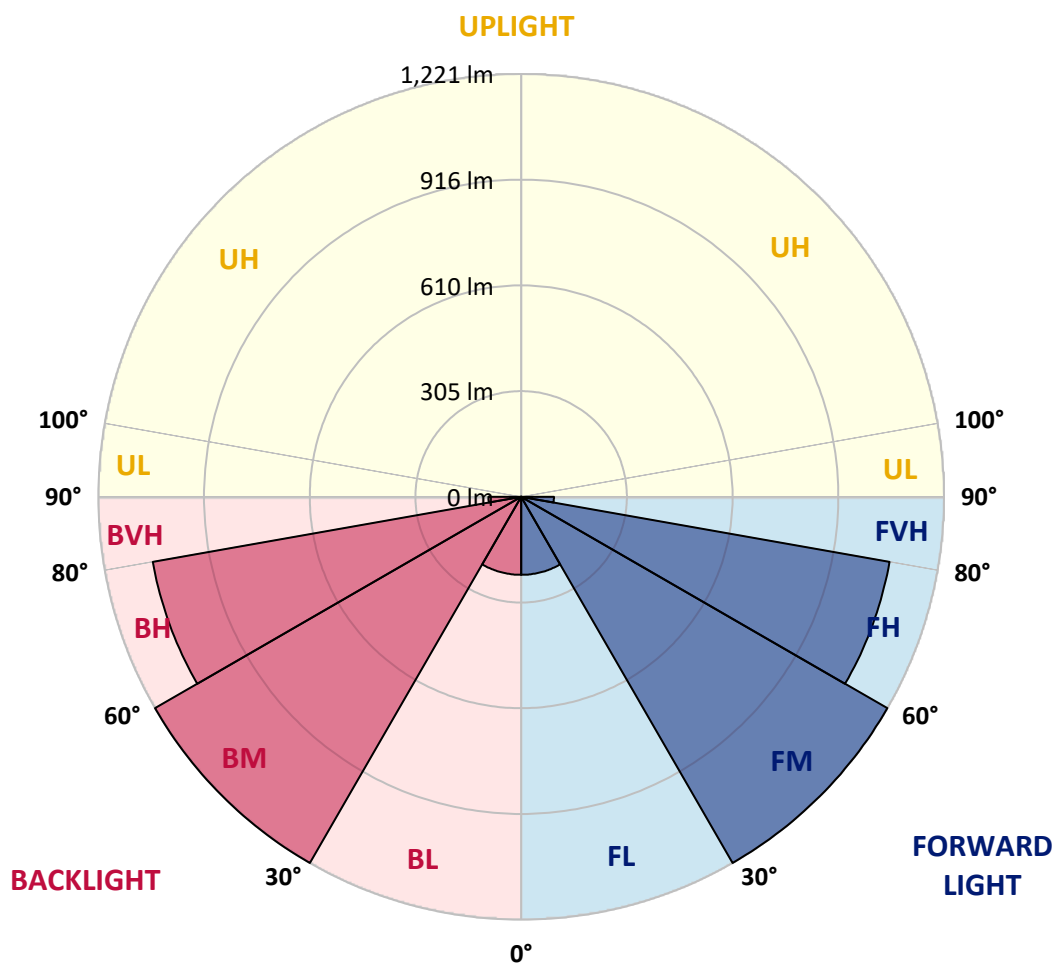
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	225.2	4.3			
FM	(30°-60°)	1220.7	23.3			
FH	(60°-80°)	1079.8	20.6			G1/1800
FVH	(80°-90°)	94.6	1.8			G1/100
BL	(0°-30°)	225.2	4.3	B1/500		
BM	(30°-60°)	1220.7	23.3	B2/2500		
BH	(60°-80°)	1079.8	20.6	B3/2500		G1/1800
BVH	(80°-90°)	94.6	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°	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6
2.5°	412.1	412.1	412.1	412.1	412.1	411.1	412.1	411.1	411.1	411.1	411.1
5°	415.3	416.4	416.4	416.4	416.4	417.4	417.4	418.5	418.5	418.5	418.5
7.5°	418.5	418.5	418.5	418.5	418.5	418.5	419.6	419.6	420.6	420.6	421.7
10°	431.2	431.2	432.3	432.3	431.2	431.2	431.2	430.2	430.2	429.1	429.1
12.5°	449.2	449.2	450.3	451.3	451.3	450.3	449.2	447.1	446.0	446.0	446.0
15°	463.0	464.1	466.2	468.3	469.4	469.4	470.4	470.4	470.4	469.4	468.3
17.5°	489.5	489.5	490.5	491.6	491.6	492.7	494.8	496.9	501.1	502.2	499.0
20°	527.6	528.7	531.9	530.8	530.8	532.9	535.0	536.1	539.3	541.4	541.4
22.5°	556.2	558.4	562.6	562.6	561.5	562.6	564.7	564.7	564.7	563.7	565.8
25°	578.5	580.6	583.8	583.8	585.9	591.2	597.6	596.5	593.3	593.3	592.3
27.5°	608.2	609.2	611.3	611.3	614.5	617.7	621.9	626.2	628.3	627.2	625.1
30°	645.2	647.4	649.5	646.3	651.6	654.8	656.9	656.9	665.4	669.6	662.2
32.5°	672.8	677.0	681.3	684.4	695.0	700.3	697.1	700.3	704.6	708.8	708.8
35°	718.3	722.6	725.8	727.9	738.5	745.9	754.4	762.8	761.8	758.6	765.0
37.5°	784.0	788.3	791.4	795.7	809.5	814.8	821.1	839.1	845.5	837.0	841.2
40°	854.0	861.4	872.0	884.7	904.8	911.2	921.8	934.5	946.1	950.4	939.8
42.5°	914.3	922.8	924.9	945.1	969.4	988.5	1003.3	1006.5	1017.1	1026.7	1019.2
45°	979.0	986.4	991.7	1008.6	1022.4	1048.9	1073.3	1084.9	1090.2	1089.2	1097.6
47.5°	1039.4	1047.8	1055.3	1073.3	1090.2	1112.5	1128.4	1155.9	1165.4	1152.7	1166.5
50°	1076.4	1087.0	1096.6	1130.5	1160.1	1183.5	1196.2	1219.5	1236.4	1228.0	1231.1
52.5°	1137.9	1142.1	1149.6	1168.6	1207.8	1261.9	1274.6	1287.3	1308.5	1319.1	1300.0
55°	1216.3	1228.0	1238.6	1262.9	1283.0	1323.3	1381.6	1397.5	1396.4	1429.3	1399.6
57.5°	1233.3	1250.2	1271.4	1315.9	1355.1	1378.4	1415.5	1460.0	1464.2	1466.3	1470.6
60°	1235.4	1246.0	1259.7	1296.8	1365.7	1408.1	1429.3	1457.9	1496.0	1468.5	1497.1
61°	1239.6	1251.3	1261.9	1291.5	1351.9	1406.0	1433.5	1449.4	1498.1	1470.6	1493.9
62.5°	1232.2	1246.0	1261.9	1290.5	1330.7	1385.8	1438.8	1438.8	1487.5	1469.5	1482.2
65°	1187.7	1200.4	1231.1	1268.2	1317.0	1345.6	1400.7	1435.6	1428.2	1460.0	1428.2
67.5°	1112.5	1123.1	1149.6	1193.0	1246.0	1286.2	1311.7	1367.8	1360.4	1393.2	1357.2
70°	1006.5	1020.3	1053.1	1082.8	1132.6	1175.0	1208.9	1242.8	1257.6	1254.4	1256.6
72.5°	879.4	888.9	918.6	951.4	990.6	1038.3	1069.0	1090.2	1113.5	1112.5	1116.7
75°	732.1	740.6	766.0	790.4	828.5	865.6	900.6	922.8	941.9	940.8	936.6
77.5°	564.7	574.2	602.9	624.0	642.1	683.4	709.9	724.7	740.6	740.6	742.7
80°	394.1	400.5	422.7	445.0	461.9	482.1	516.0	519.2	537.2	532.9	537.2
82.5°	237.3	241.6	258.5	271.2	282.9	302.0	317.8	324.2	334.8	330.6	336.9
85°	107.0	109.1	119.7	127.1	132.4	143.0	151.5	154.7	160.0	158.9	163.2
87.5°	22.2	24.4	27.5	29.7	30.7	35.0	38.1	38.1	40.3	40.3	41.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6
2.5°	411.1	412.1	411.1	411.1	411.1	412.1	411.1	412.1
5°	418.5	418.5	418.5	417.4	416.4	416.4	416.4	415.3
7.5°	422.7	422.7	421.7	420.6	419.6	420.6	420.6	420.6
10°	431.2	433.3	434.4	434.4	433.3	433.3	433.3	432.3
12.5°	446.0	447.1	450.3	451.3	452.4	451.3	448.2	447.1
15°	466.2	466.2	467.2	469.4	469.4	465.1	461.9	460.9
17.5°	494.8	493.7	491.6	491.6	492.7	490.5	487.4	487.4
20°	538.2	534.0	531.9	528.7	531.9	531.9	525.5	522.3
22.5°	568.9	564.7	559.4	556.2	560.5	563.7	556.2	552.0
25°	595.4	596.5	588.0	583.8	584.8	587.0	577.4	576.4
27.5°	623.0	625.1	620.9	613.4	611.3	615.6	608.2	606.0
30°	656.9	655.8	657.9	648.4	644.2	647.4	646.3	641.0
32.5°	701.4	696.1	698.2	689.7	681.3	681.3	674.9	668.5
35°	762.8	751.2	745.9	740.6	724.7	725.8	720.5	715.2
37.5°	843.4	825.3	810.5	813.7	790.4	788.3	785.1	777.7
40°	935.5	927.1	910.1	900.6	876.2	864.5	860.3	846.5
42.5°	1004.4	1006.5	981.1	964.1	945.1	924.9	922.8	909.0
45°	1078.6	1071.2	1047.8	1020.3	1011.8	987.4	984.3	970.5
47.5°	1152.7	1127.3	1113.5	1084.9	1071.2	1040.4	1042.5	1029.8
50°	1222.7	1193.0	1180.3	1146.4	1125.2	1094.5	1087.0	1065.9
52.5°	1296.8	1269.3	1249.1	1205.7	1175.0	1151.7	1139.0	1130.5
55°	1396.4	1368.9	1323.3	1283.0	1257.6	1219.5	1215.2	1200.4
57.5°	1443.0	1422.9	1373.1	1344.5	1298.9	1259.7	1247.0	1217.4
60°	1448.3	1439.9	1386.9	1359.3	1292.6	1260.8	1244.9	1226.9
61°	1447.3	1436.7	1385.8	1351.9	1288.3	1256.6	1243.8	1228.0
62.5°	1443.0	1430.3	1374.2	1339.2	1279.9	1249.1	1238.6	1215.2
65°	1429.3	1394.3	1345.6	1313.8	1249.1	1221.6	1196.2	1172.9
67.5°	1368.9	1303.2	1283.0	1242.8	1177.1	1146.4	1123.1	1102.9
70°	1239.6	1196.2	1175.0	1125.2	1072.2	1046.8	1020.3	994.9
72.5°	1088.1	1059.5	1041.5	981.1	941.9	916.5	892.1	867.7
75°	918.6	897.4	864.5	819.0	784.0	758.6	736.3	724.7
77.5°	721.5	707.7	682.3	636.8	617.7	595.4	573.2	555.2
80°	519.2	508.6	488.4	455.6	439.7	417.4	401.5	386.7
82.5°	323.1	314.7	303.0	278.6	272.3	258.5	243.7	233.1
85°	154.7	149.4	145.2	129.3	128.2	116.5	111.2	104.9
87.5°	40.3	39.2	37.1	31.8	30.7	27.5	25.4	22.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)