

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: P198075

Luminaire Tested: **TT-C4-LED-E1-RW-CG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34695)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-RW-CG-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5736.6 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 58
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



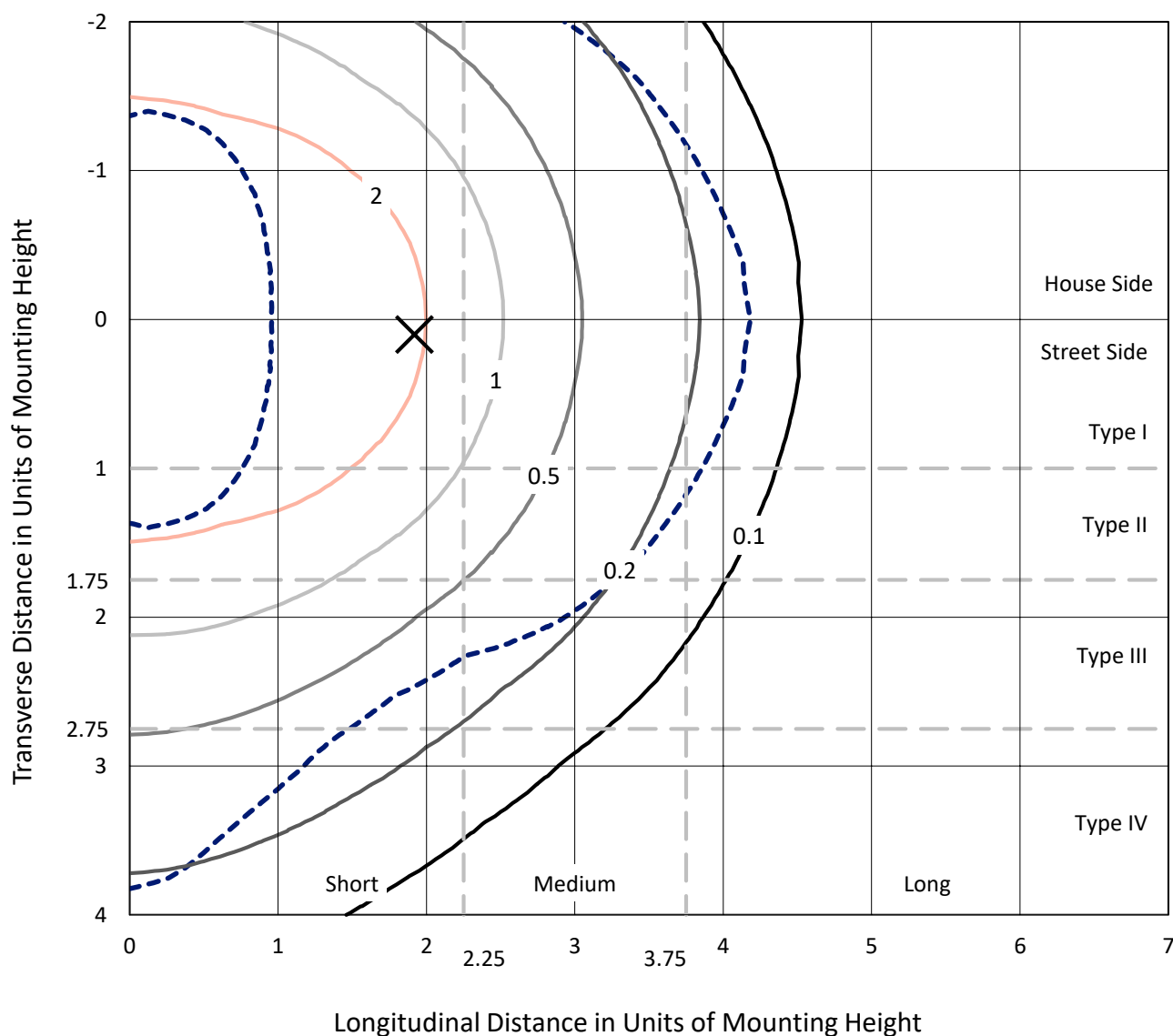
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

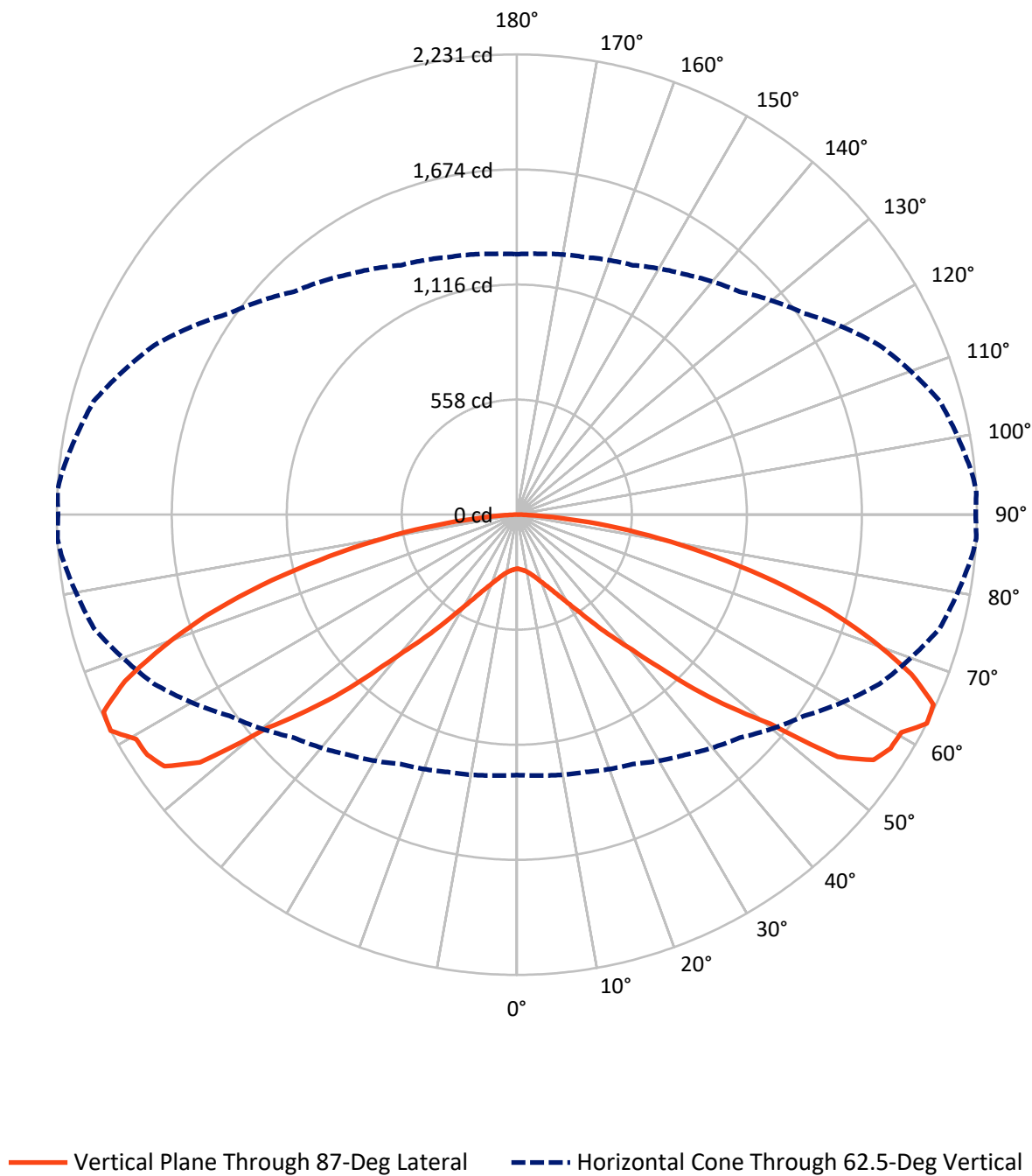


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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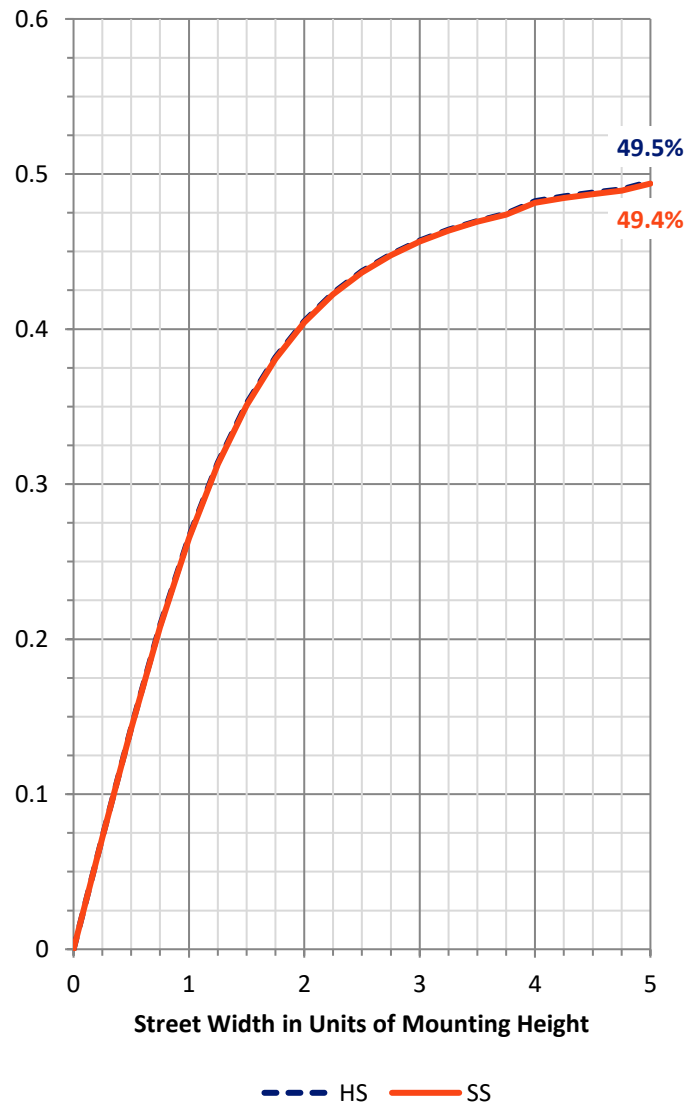
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2868.3	0.0	2868.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2868.3	0.0	2868.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	5736.6	0.0	5736.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.2	0.5
10°-20°	90.6	1.6
20°-30°	199.9	3.5
30°-40°	402.6	7.0
40°-50°	768.0	13.4
50°-60°	1315.0	22.9
60°-70°	1593.1	27.8
70°-80°	1103.8	19.2
80°-90°	237.3	4.1
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°	5736.6	100.0
0°-180°	5736.6	100.0

Coefficient of Utilization



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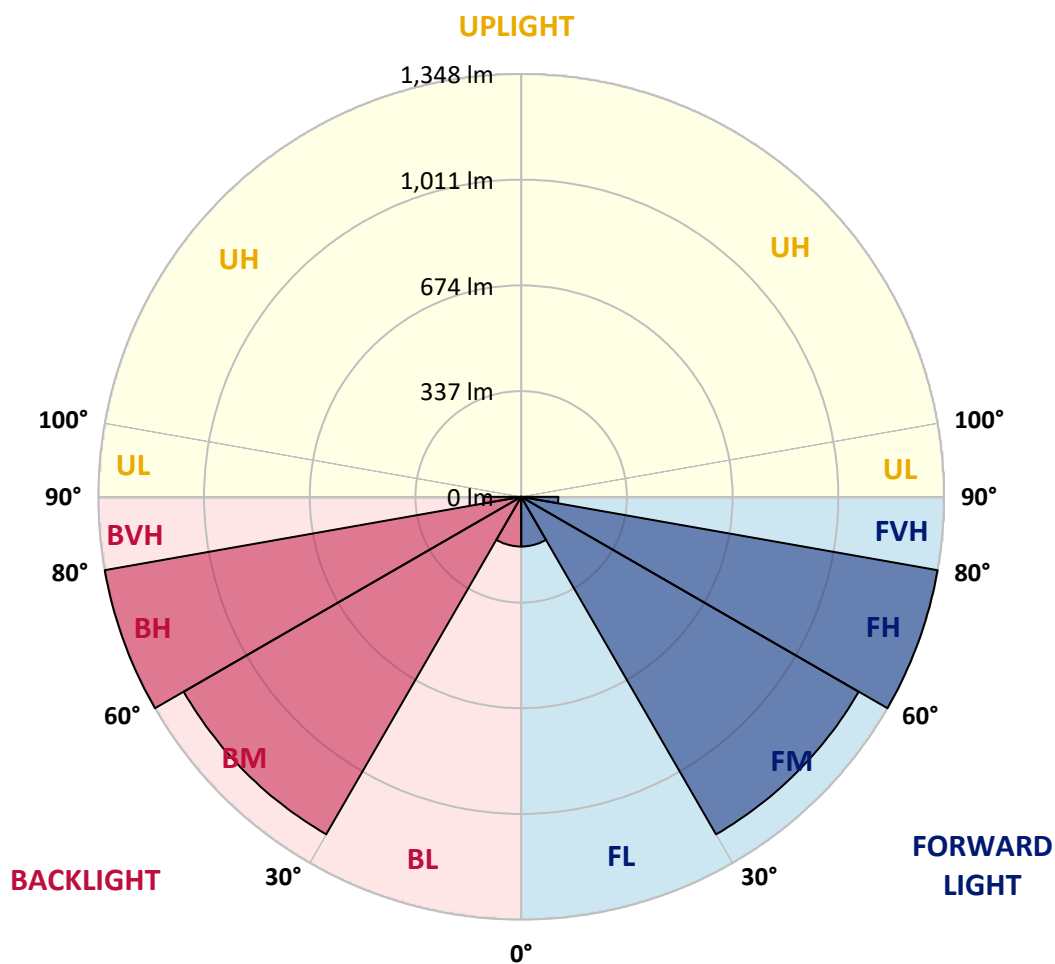
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	158.4	2.8			
FM	(30°-60°)	1242.8	21.7			
FH	(60°-80°)	1348.5	23.5			G1/1800
FVH	(80°-90°)	118.6	2.1			G2/225
BL	(0°-30°)	158.4	2.8	B1/500		
BM	(30°-60°)	1242.8	21.7	B2/2500		
BH	(60°-80°)	1348.5	23.5	B3/2500		G3/2500
BVH	(80°-90°)	118.6	2.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
0°	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6
2.5°	264.0	264.0	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1
5°	268.7	268.7	268.7	269.8	269.8	269.8	269.8	269.8	268.7	268.7	268.7
7.5°	275.7	275.7	275.7	276.9	276.9	276.9	275.7	275.7	274.5	274.5	274.5
10°	285.1	285.1	286.3	286.3	285.1	285.1	283.9	282.7	283.9	282.7	282.7
12.5°	298.0	300.3	299.2	299.2	296.8	296.8	295.6	295.6	295.6	294.5	294.5
15°	316.8	316.8	317.9	315.6	315.6	312.1	310.9	309.7	310.9	310.9	309.7
17.5°	339.1	339.1	339.1	335.5	333.2	330.8	329.7	328.5	327.3	328.5	328.5
20°	373.1	370.7	366.0	363.7	357.8	355.5	353.1	352.0	350.8	350.8	350.8
22.5°	408.3	405.9	400.1	395.4	390.7	384.8	382.5	377.8	376.6	378.9	377.8
25°	442.3	445.8	438.8	432.9	429.4	420.0	414.1	413.0	410.6	409.4	410.6
27.5°	484.5	486.9	481.0	472.8	465.8	458.7	452.9	450.5	451.7	451.7	452.9
30°	531.5	536.2	526.8	522.1	511.5	502.1	497.4	499.8	502.1	505.7	504.5
32.5°	585.4	585.4	580.7	572.5	560.8	552.6	550.2	553.8	564.3	569.0	567.8
35°	648.8	644.1	639.4	628.8	613.6	608.9	613.6	625.3	640.6	648.8	653.5
37.5°	714.5	705.1	698.1	686.3	679.3	676.9	687.5	709.8	726.2	741.5	748.5
40°	770.8	770.8	761.4	748.5	741.5	752.0	768.4	800.1	831.8	848.2	860.0
42.5°	827.1	834.1	823.6	813.0	813.0	827.1	858.8	908.1	967.9	1003.1	1009.0
45°	885.8	898.7	884.6	877.6	884.6	912.8	972.6	1067.6	1156.8	1214.3	1204.9
47.5°	946.8	958.5	945.6	942.1	958.5	1009.0	1100.5	1222.5	1311.6	1371.5	1394.9
50°	1021.9	1013.6	1009.0	1007.8	1041.8	1116.9	1235.4	1366.8	1509.9	1563.9	1593.2
52.5°	1085.2	1071.1	1068.8	1077.0	1133.3	1223.7	1371.5	1613.2	1811.4	1945.2	1949.9
55°	1140.4	1125.1	1133.3	1153.3	1229.5	1355.1	1541.6	1824.3	1992.1	2091.8	2100.0
57.5°	1187.3	1179.1	1193.1	1220.1	1318.7	1468.9	1677.7	1911.2	2049.6	2129.4	2137.6
60°	1229.5	1228.3	1243.6	1289.4	1399.6	1535.7	1708.2	1917.0	2061.3	2132.9	2143.4
62.5°	1262.4	1269.4	1291.7	1333.9	1421.9	1528.7	1701.1	1941.7	2124.7	2218.5	2231.4
65°	1290.5	1297.6	1319.9	1333.9	1412.5	1514.6	1739.9	1958.1	2115.3	2212.7	2220.9
67.5°	1305.8	1314.0	1310.5	1312.8	1373.8	1453.6	1648.4	1836.1	1965.1	2054.3	2064.8
70°	1303.4	1296.4	1268.2	1238.9	1251.8	1308.1	1484.1	1641.3	1758.6	1829.0	1832.5
72.5°	1254.2	1242.4	1175.6	1107.5	1087.6	1125.1	1278.8	1397.3	1497.0	1561.5	1581.5
75°	1142.7	1119.2	1021.9	933.9	889.3	917.4	1035.9	1139.2	1213.1	1276.4	1289.4
77.5°	939.7	925.7	828.3	732.1	682.8	701.6	795.4	856.4	936.2	1001.9	985.5
80°	684.0	681.6	603.0	517.4	482.2	490.4	540.8	600.7	651.1	700.4	702.8
82.5°	447.0	440.0	387.2	325.0	288.6	293.3	325.0	356.7	404.8	436.4	445.8
85°	221.7	218.2	194.8	156.0	136.1	136.1	151.3	170.1	193.6	207.7	206.5
87.5°	61.0	55.1	54.0	39.9	32.8	35.2	35.2	38.7	49.3	52.8	56.3
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):

	90°
0°	261.6
2.5°	265.1
5°	268.7
7.5°	274.5
10°	283.9
12.5°	294.5
15°	309.7
17.5°	327.3
20°	350.8
22.5°	380.1
25°	410.6
27.5°	451.7
30°	505.7
32.5°	569.0
35°	651.1
37.5°	742.6
40°	855.3
42.5°	1003.1
45°	1215.4
47.5°	1383.2
50°	1578.0
52.5°	1956.9
55°	2102.4
57.5°	2139.9
60°	2144.6
62.5°	2225.6
65°	2230.3
67.5°	2056.6
70°	1838.4
72.5°	1579.1
75°	1298.7
77.5°	1003.1
80°	701.6
82.5°	438.8
85°	205.3
87.5°	51.6
90°	0.0

(END OF REPORT)