

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: P197979

Luminaire Tested: **TT-C4-LED-E1-RW-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34692)
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-MS/DIM-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5574 lumens
Efficiency: N/A
Efficacy: 96.1 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

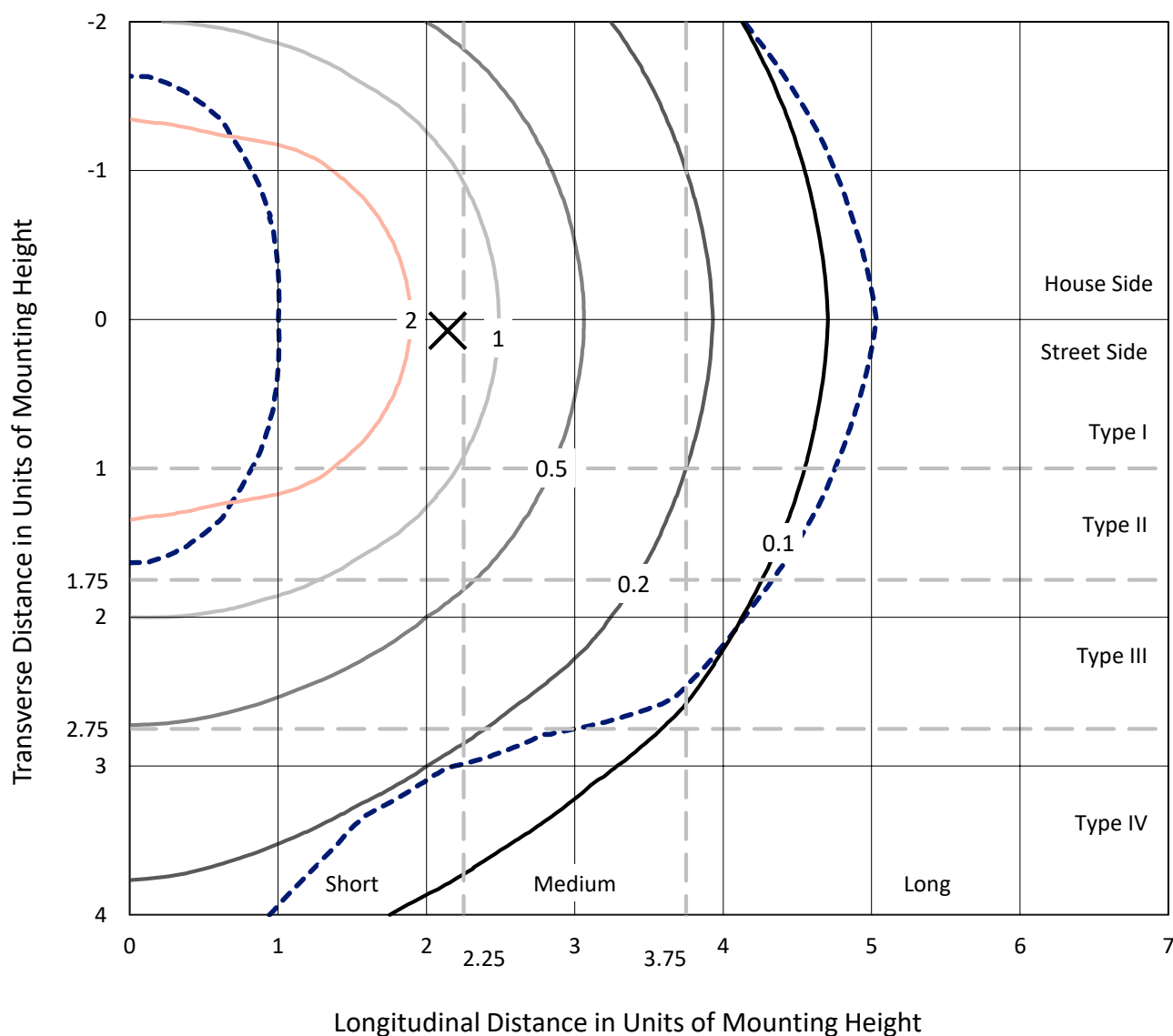


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

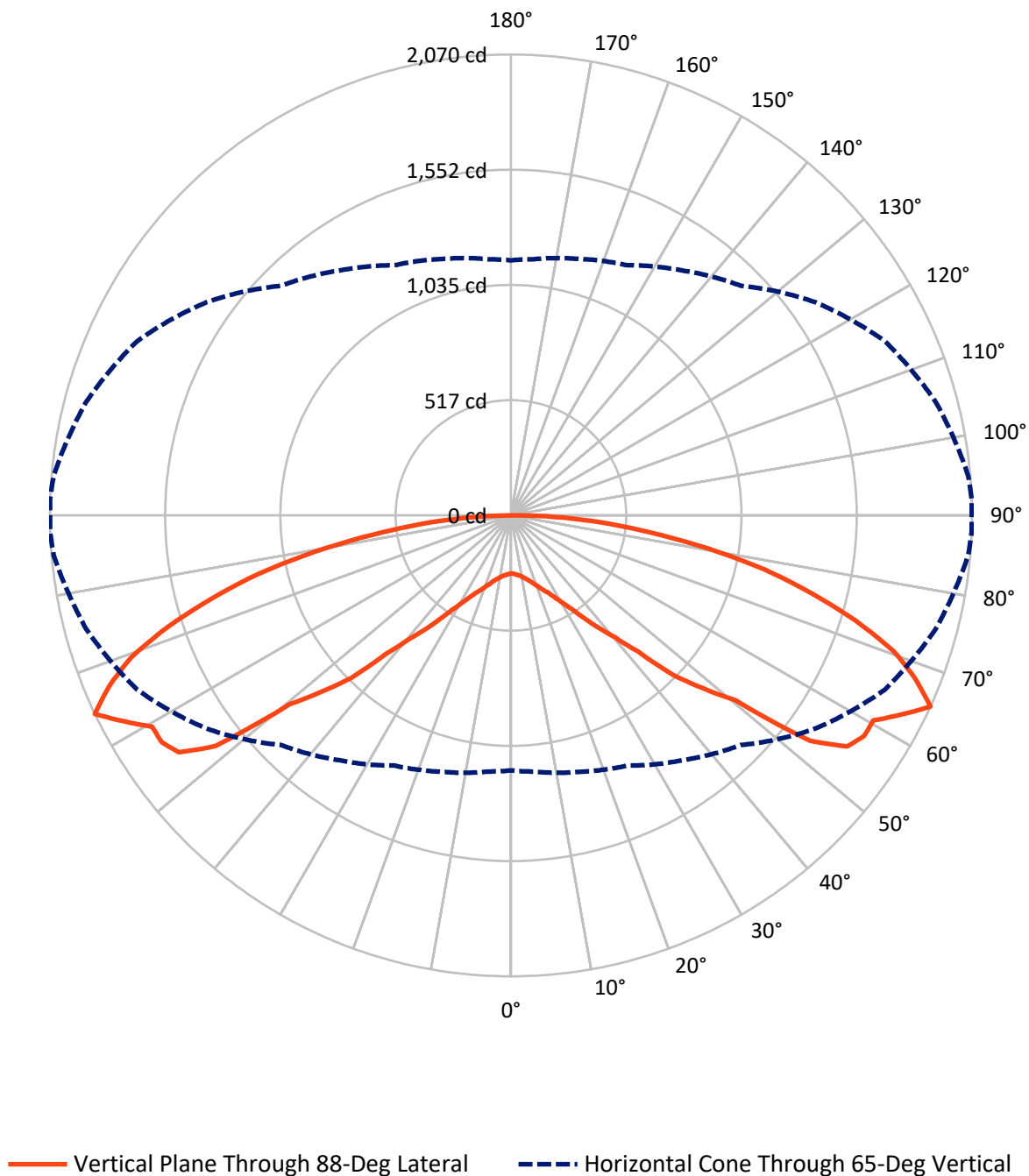


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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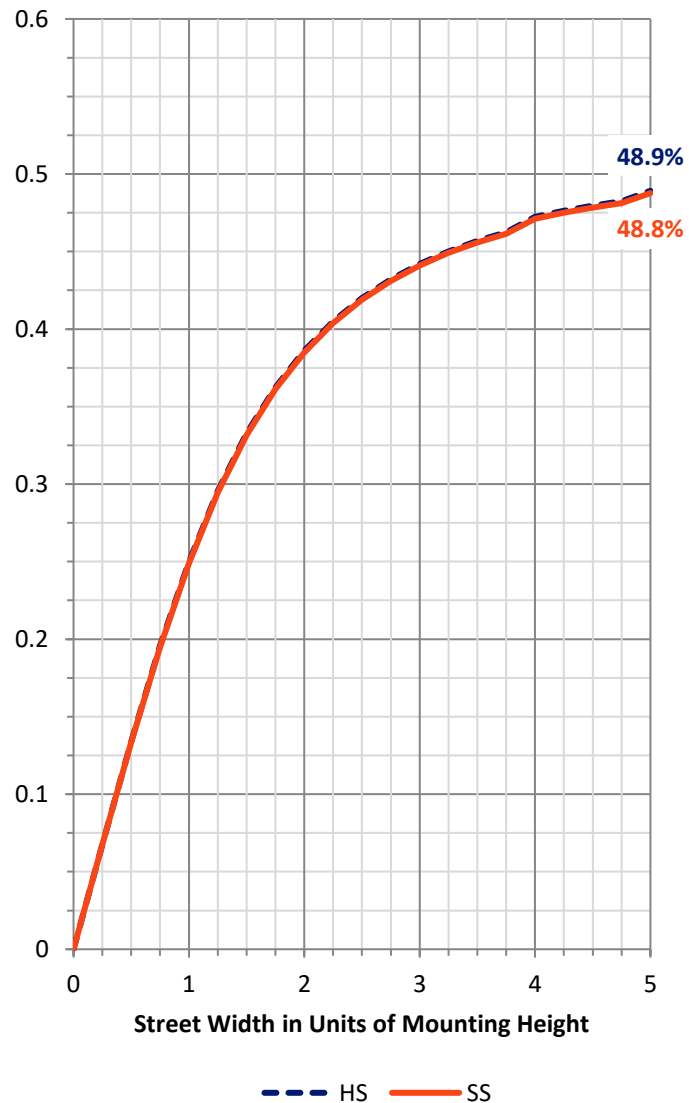
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2787.0	0.0	2787.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2787.0	0.0	2787.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5574.0	0.0	5574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	0.5
10°-20°	88.9	1.6
20°-30°	188.7	3.4
30°-40°	360.5	6.5
40°-50°	662.7	11.9
50°-60°	1147.8	20.6
60°-70°	1493.2	26.8
70°-80°	1223.7	22.0
80°-90°	382.6	6.9
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°	5574.0	100.0
0°-180°	5574.0	100.0

Coefficient of Utilization



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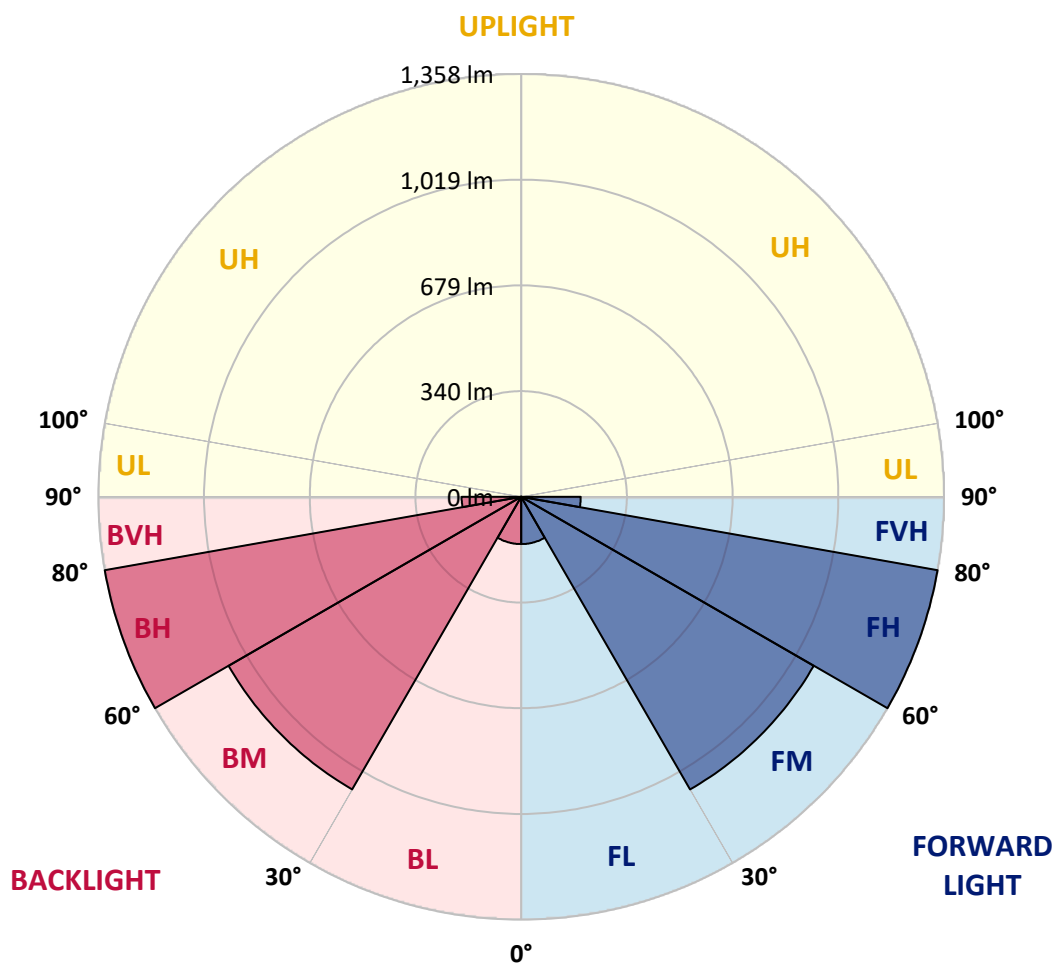
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	151.8	2.7			
FM	(30°-60°)	1085.5	19.5			
FH	(60°-80°)	1358.5	24.4			G1/1800
FVH	(80°-90°)	191.3	3.4			G2/225
BL	(0°-30°)	151.8	2.7	B1/500		
BM	(30°-60°)	1085.5	19.5	B2/2500		
BH	(60°-80°)	1358.5	24.4	B3/2500		G3/2500
BVH	(80°-90°)	191.3	3.4			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°	88°
0°	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5
2.5°	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8
5°	267.5	267.5	267.5	268.7	268.7	268.7	268.7	268.7	267.5	267.5	267.5
7.5°	273.4	273.4	274.5	274.5	274.5	274.5	273.4	273.4	272.2	272.2	272.2
10°	282.7	282.7	283.9	283.9	282.7	281.6	281.6	281.6	280.4	280.4	280.4
12.5°	295.6	295.6	296.8	295.6	294.5	293.3	293.3	292.1	291.0	291.0	291.0
15°	313.2	313.2	312.1	309.7	307.4	307.4	303.9	303.9	303.9	303.9	302.7
17.5°	336.7	335.5	330.8	329.7	326.2	323.8	321.5	320.3	319.1	319.1	320.3
20°	362.5	360.2	354.3	354.3	348.4	344.9	342.6	340.2	340.2	339.1	337.9
22.5°	393.0	390.7	383.6	381.3	375.4	369.6	367.2	361.3	360.2	360.2	361.3
25°	423.5	424.7	418.8	414.1	405.9	400.1	391.9	388.3	384.8	384.8	382.5
27.5°	458.7	459.9	452.9	447.0	440.0	428.2	423.5	418.8	415.3	417.7	415.3
30°	496.3	498.6	492.7	485.7	475.1	463.4	457.6	456.4	452.9	455.2	454.0
32.5°	539.7	538.5	535.0	527.9	513.9	504.5	499.8	498.6	501.0	502.1	501.0
35°	590.1	585.4	581.9	571.4	558.4	551.4	546.7	551.4	562.0	569.0	566.7
37.5°	642.9	635.9	632.4	620.6	608.9	605.4	611.2	620.6	631.2	640.6	640.6
40°	686.3	688.7	680.5	669.9	660.5	664.0	674.6	691.0	712.1	721.5	720.3
42.5°	729.7	736.8	728.6	718.0	719.2	729.7	745.0	775.5	822.4	836.5	835.3
45°	768.4	783.7	776.7	769.6	780.2	797.8	838.8	906.9	971.4	1019.5	1023.0
47.5°	818.9	827.1	823.6	823.6	840.0	881.1	943.3	1038.3	1106.3	1152.1	1159.1
50°	876.4	868.2	869.3	879.9	921.0	982.0	1066.4	1155.6	1277.6	1298.7	1304.6
52.5°	924.5	910.4	918.6	938.6	998.4	1075.8	1181.4	1364.4	1520.5	1661.3	1681.2
55°	973.8	957.3	973.8	1005.4	1093.4	1201.4	1356.2	1568.6	1732.8	1820.8	1831.4
57.5°	1011.3	1009.0	1032.4	1078.2	1186.1	1330.4	1505.2	1687.1	1797.4	1859.5	1868.9
60°	1058.2	1060.6	1087.6	1148.6	1277.6	1416.1	1546.3	1712.9	1822.0	1858.4	1868.9
62.5°	1102.8	1112.2	1143.9	1213.1	1325.7	1431.3	1556.8	1758.6	1897.1	1975.7	1968.6
65°	1145.0	1154.4	1192.0	1238.9	1342.1	1458.3	1668.3	1851.3	1973.3	2060.1	2069.5
67.5°	1187.3	1199.0	1214.3	1251.8	1351.5	1460.6	1642.5	1796.2	1894.7	1954.6	1958.1
70°	1223.7	1222.5	1219.0	1229.5	1291.7	1376.2	1545.1	1667.1	1759.8	1809.1	1820.8
72.5°	1228.3	1224.8	1183.8	1153.3	1173.2	1240.1	1402.0	1499.4	1569.7	1610.8	1619.0
75°	1189.6	1169.7	1088.7	1023.0	1019.5	1086.4	1222.5	1292.9	1335.1	1387.9	1391.4
77.5°	1064.1	1041.8	951.5	862.3	862.3	905.7	1019.5	1057.1	1109.9	1149.7	1160.3
80°	857.6	855.3	761.4	691.0	665.2	701.6	794.3	808.3	848.2	882.3	892.8
82.5°	620.6	603.0	551.4	491.6	470.5	493.9	557.3	571.4	586.6	617.1	630.0
85°	375.4	376.6	341.4	307.4	280.4	288.6	337.9	357.8	377.8	397.7	404.8
87.5°	134.9	156.0	122.0	107.9	93.9	89.2	104.4	129.1	151.3	179.5	194.8
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°	260.5
2.5°	262.8
5°	266.3
7.5°	272.2
10°	280.4
12.5°	291.0
15°	302.7
17.5°	317.9
20°	337.9
22.5°	359.0
25°	383.6
27.5°	417.7
30°	452.9
32.5°	501.0
35°	572.5
37.5°	640.6
40°	723.9
42.5°	840.0
45°	1027.7
47.5°	1158.0
50°	1315.2
52.5°	1664.8
55°	1834.9
57.5°	1871.3
60°	1868.9
62.5°	1987.4
65°	2068.4
67.5°	1960.4
70°	1825.5
72.5°	1615.5
75°	1399.6
77.5°	1166.2
80°	897.5
82.5°	625.3
85°	421.2
87.5°	173.6
90°	0.0

(END OF REPORT)