

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: P198049

Luminaire Tested: **TT-C4-LED-E1-RW-CG-MS/DIM-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34696)
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-MS/DIM-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY
SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4084.2 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

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

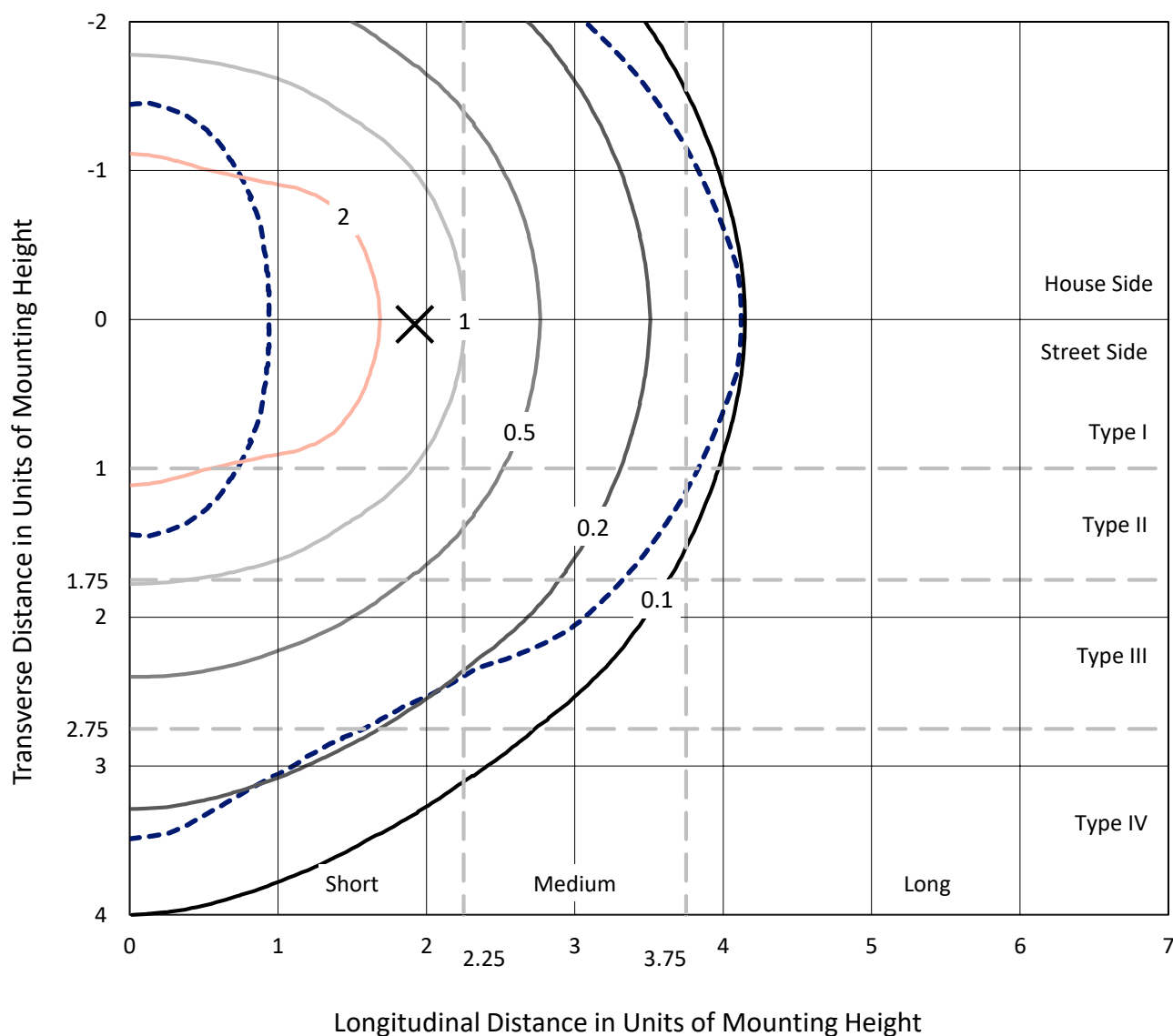


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

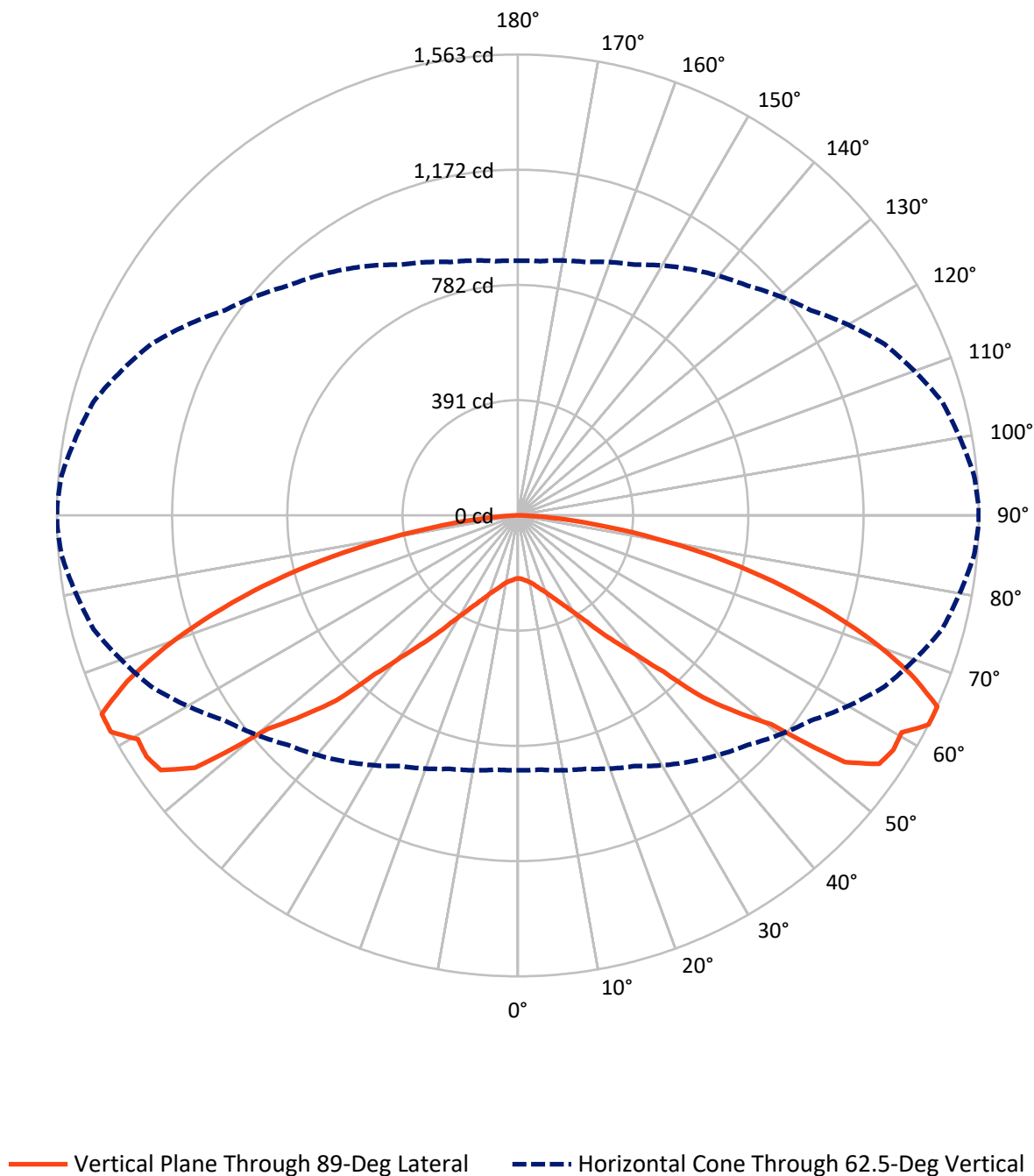


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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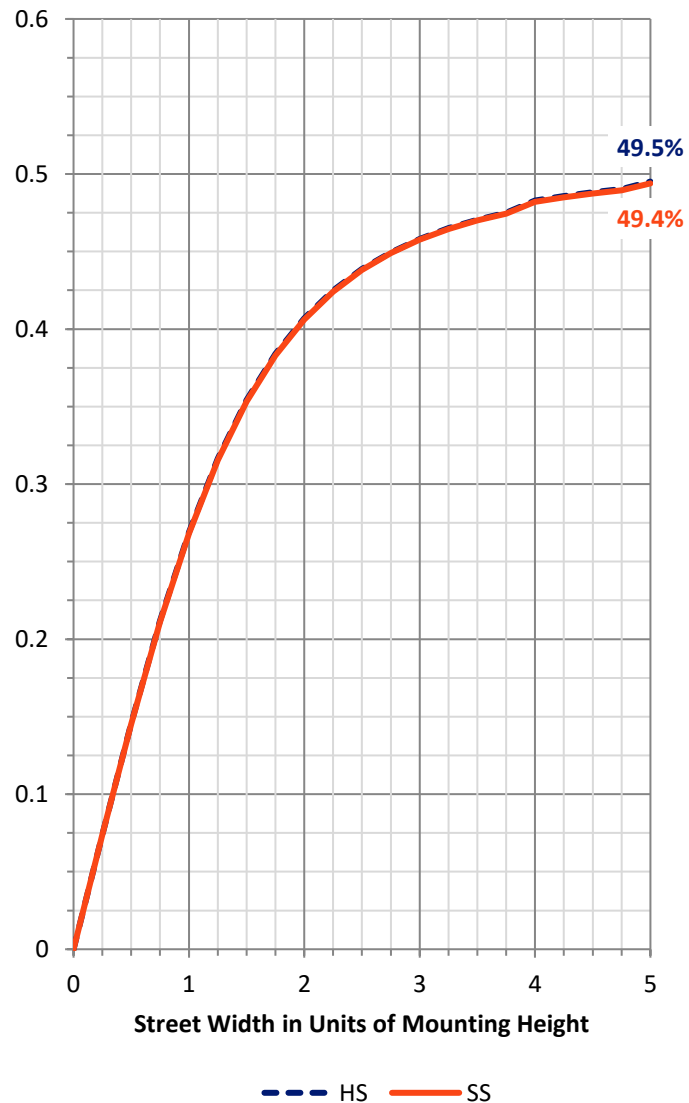
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2042.1	0.0	2042.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2042.1	0.0	2042.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	4084.2	0.0	4084.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	0.5
10°-20°	72.7	1.8
20°-30°	154.6	3.8
30°-40°	297.1	7.3
40°-50°	550.0	13.5
50°-60°	929.1	22.7
60°-70°	1122.1	27.5
70°-80°	772.6	18.9
80°-90°	164.8	4.0
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°	4084.2	100.0
0°-180°	4084.2	100.0

Coefficient of Utilization



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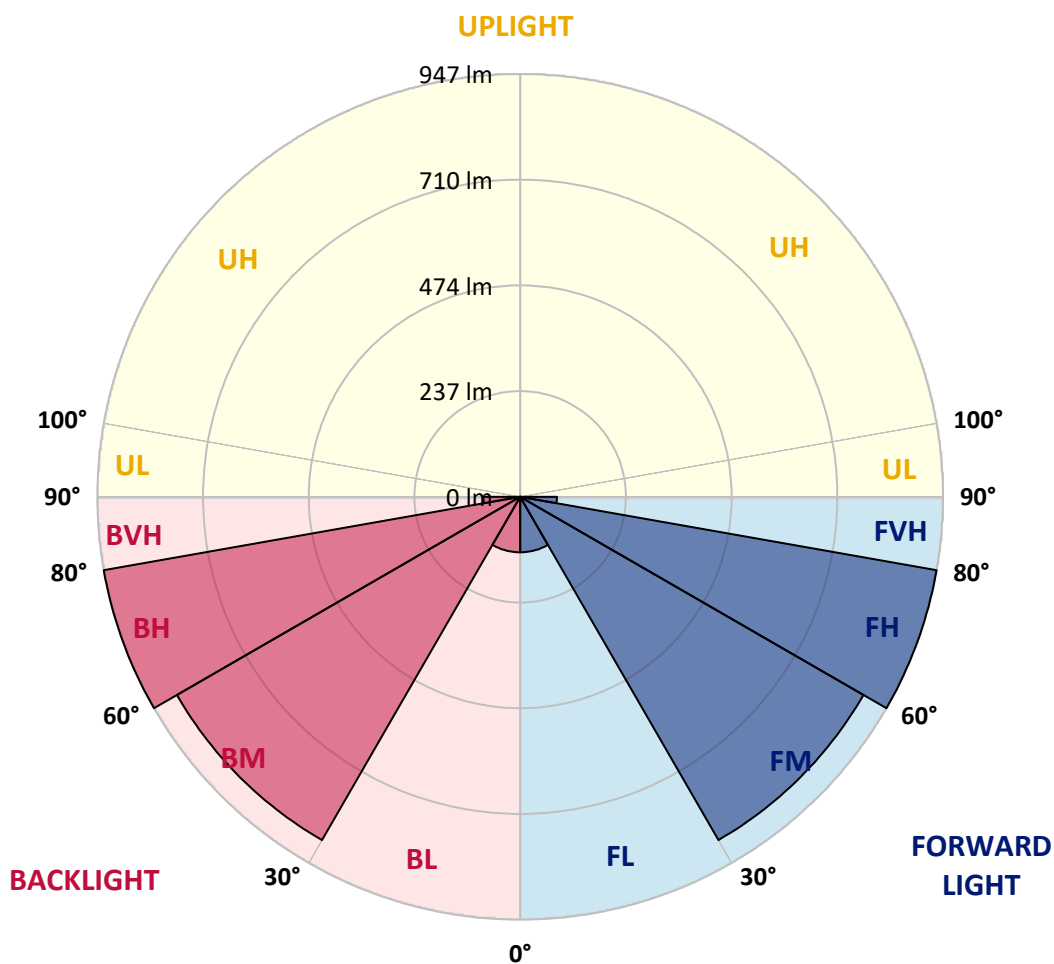
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	124.3	3.0			
FM	(30°-60°)	888.1	21.7			
FH	(60°-80°)	947.3	23.2			G1/1800
FVH	(80°-90°)	82.4	2.0			G1/100
BL	(0°-30°)	124.3	3.0	B1/500		
BM	(30°-60°)	888.1	21.7	B1/1000		
BH	(60°-80°)	947.3	23.2	B2/1000		G2/1000
BVH	(80°-90°)	82.4	2.0			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°	55°	65°	75°	85°	89°
0°	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5
2.5°	215.3	215.3	215.3	215.3	216.2	216.2	216.2	216.2	216.2	216.2	215.3
5°	218.8	218.0	218.8	219.7	219.7	220.6	220.6	220.6	220.6	219.7	219.7
7.5°	223.3	223.3	224.2	225.1	226.0	225.1	225.1	224.2	224.2	224.2	224.2
10°	231.4	230.5	231.4	232.2	231.4	231.4	231.4	231.4	231.4	231.4	230.5
12.5°	240.3	240.3	240.3	240.3	239.4	240.3	239.4	240.3	240.3	240.3	239.4
15°	252.8	252.8	252.8	251.9	251.0	251.0	251.0	251.0	251.0	251.0	251.9
17.5°	269.8	268.9	268.0	266.2	265.3	264.4	264.4	264.4	265.3	265.3	265.3
20°	289.4	287.6	285.8	284.9	284.1	282.3	281.4	282.3	283.2	283.2	280.5
22.5°	313.5	310.9	308.2	307.3	303.7	302.8	301.9	301.0	301.0	301.9	301.0
25°	335.9	336.8	334.1	329.6	328.7	326.9	324.3	325.1	324.3	325.1	324.3
27.5°	363.6	365.3	362.7	358.2	355.5	352.8	351.1	351.1	351.9	354.6	351.9
30°	394.8	395.7	393.0	389.5	385.0	381.4	380.5	385.0	385.0	388.6	386.8
32.5°	427.9	427.0	423.4	422.5	417.2	417.2	418.0	421.6	427.9	430.5	429.7
35°	468.1	462.7	461.8	458.2	453.8	453.8	459.1	468.1	479.7	486.8	487.7
37.5°	504.7	502.9	502.0	496.7	494.0	499.3	510.0	526.1	536.0	550.2	550.2
40°	542.2	546.7	542.2	536.8	539.5	547.6	565.4	586.0	608.3	623.5	623.5
42.5°	578.8	586.9	582.4	577.9	585.1	603.8	626.2	661.0	705.7	725.3	724.4
45°	618.1	624.4	619.9	620.8	636.0	659.2	702.1	777.1	839.7	879.9	880.8
47.5°	661.0	661.9	659.2	663.7	686.0	730.7	788.7	880.8	942.4	990.6	994.2
50°	703.9	699.4	698.5	709.2	749.4	805.7	888.8	978.1	1075.5	1111.2	1113.9
52.5°	742.3	736.9	740.5	758.4	811.1	880.8	984.4	1136.2	1277.4	1382.8	1389.9
55°	778.9	772.7	781.6	810.2	879.9	973.7	1103.2	1292.5	1412.2	1481.0	1487.3
57.5°	810.2	808.4	822.7	858.4	944.2	1058.5	1200.5	1355.1	1443.5	1495.3	1501.6
60°	841.4	841.4	860.2	906.7	1002.2	1106.7	1219.3	1354.2	1445.3	1489.1	1495.3
62.5°	863.8	865.6	889.7	937.9	1019.2	1101.4	1213.0	1372.9	1490.0	1553.4	1563.2
65°	876.3	879.9	905.8	937.9	1012.1	1096.0	1253.2	1388.1	1484.6	1551.6	1563.2
67.5°	878.1	885.2	897.7	921.8	984.4	1055.8	1188.9	1298.8	1379.2	1430.1	1438.1
70°	870.0	867.4	866.5	872.7	904.0	955.8	1072.8	1159.4	1238.9	1271.1	1277.4
72.5°	829.8	828.9	797.7	778.0	786.1	821.8	925.4	992.4	1044.2	1085.3	1089.8
75°	749.4	742.3	690.5	650.3	642.3	674.4	752.1	801.3	847.7	886.1	895.9
77.5°	625.3	607.4	554.7	507.4	492.2	516.3	574.4	608.3	642.3	686.9	686.9
80°	453.8	444.8	399.3	360.9	345.7	360.0	401.1	415.4	433.2	473.4	474.3
82.5°	293.0	283.2	252.8	228.7	215.3	224.2	241.2	247.4	262.6	286.7	285.8
85°	142.9	142.9	127.7	114.3	101.8	103.6	114.3	117.9	130.4	136.7	134.9
87.5°	35.7	39.3	34.8	32.2	28.6	28.6	32.2	32.2	39.3	39.3	37.5
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°
0°	213.5
2.5°	215.3
5°	219.7
7.5°	224.2
10°	230.5
12.5°	240.3
15°	251.0
17.5°	266.2
20°	283.2
22.5°	301.0
25°	324.3
27.5°	354.6
30°	388.6
32.5°	428.8
35°	484.1
37.5°	550.2
40°	624.4
42.5°	725.3
45°	882.5
47.5°	990.6
50°	1111.2
52.5°	1385.4
55°	1486.4
57.5°	1502.5
60°	1497.1
62.5°	1563.2
65°	1561.4
67.5°	1436.4
70°	1280.0
72.5°	1096.9
75°	899.5
77.5°	682.4
80°	493.1
82.5°	287.6
85°	136.7
87.5°	41.1
90°	0.0

(END OF REPORT)