

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: P198002

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34691)
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
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6019.4 lumens
Efficiency: N/A
Efficacy: 103.8 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



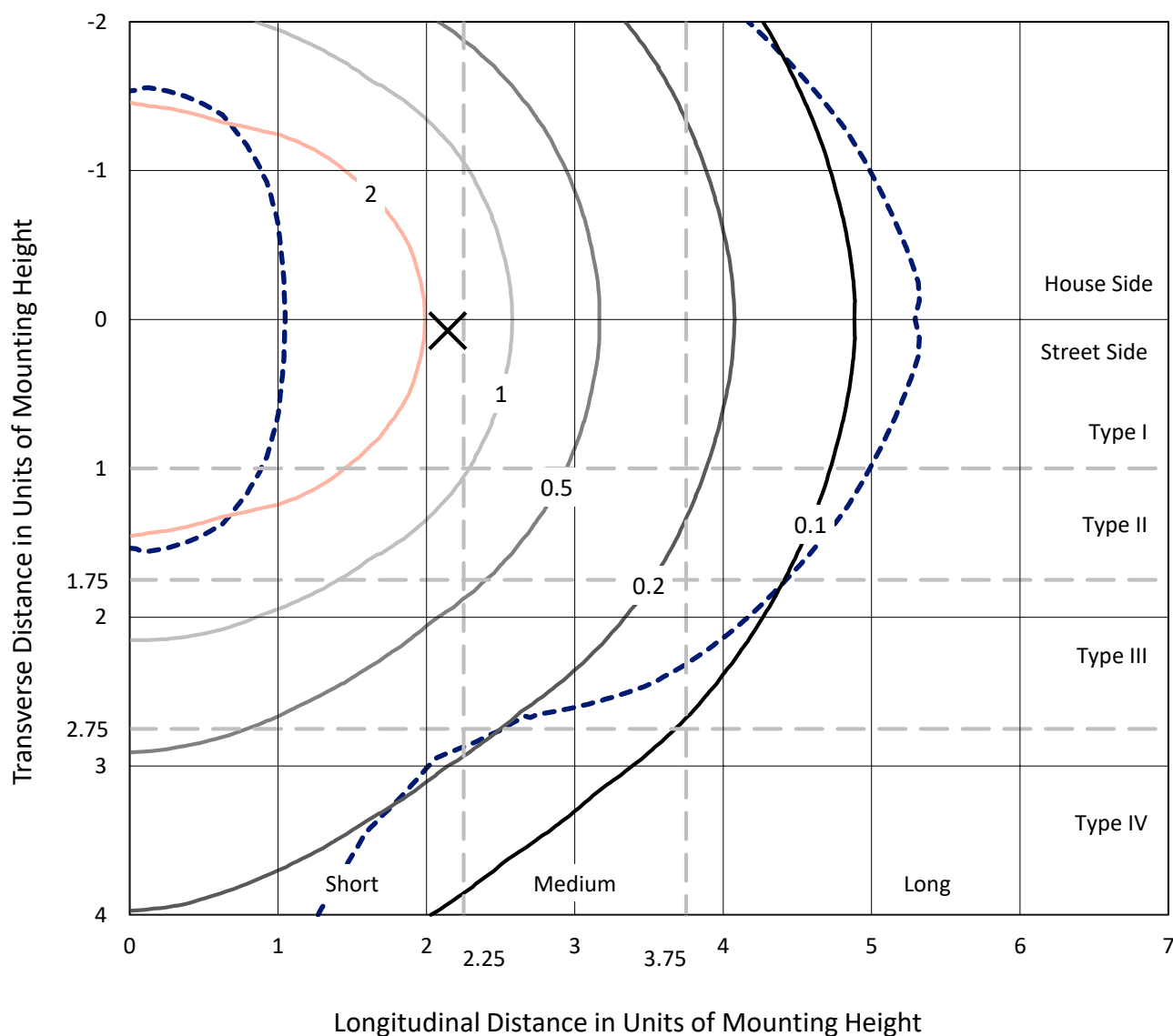
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

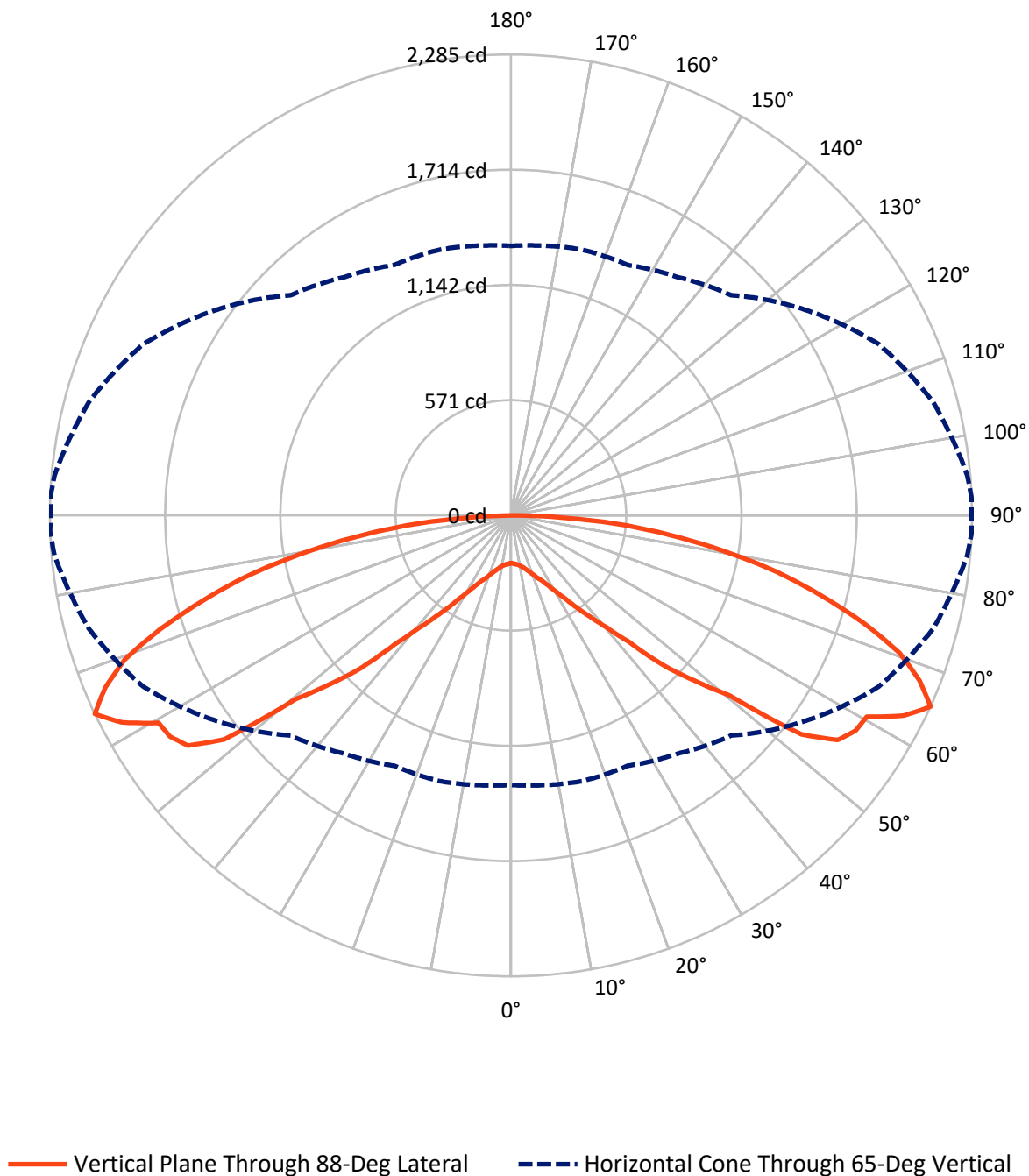


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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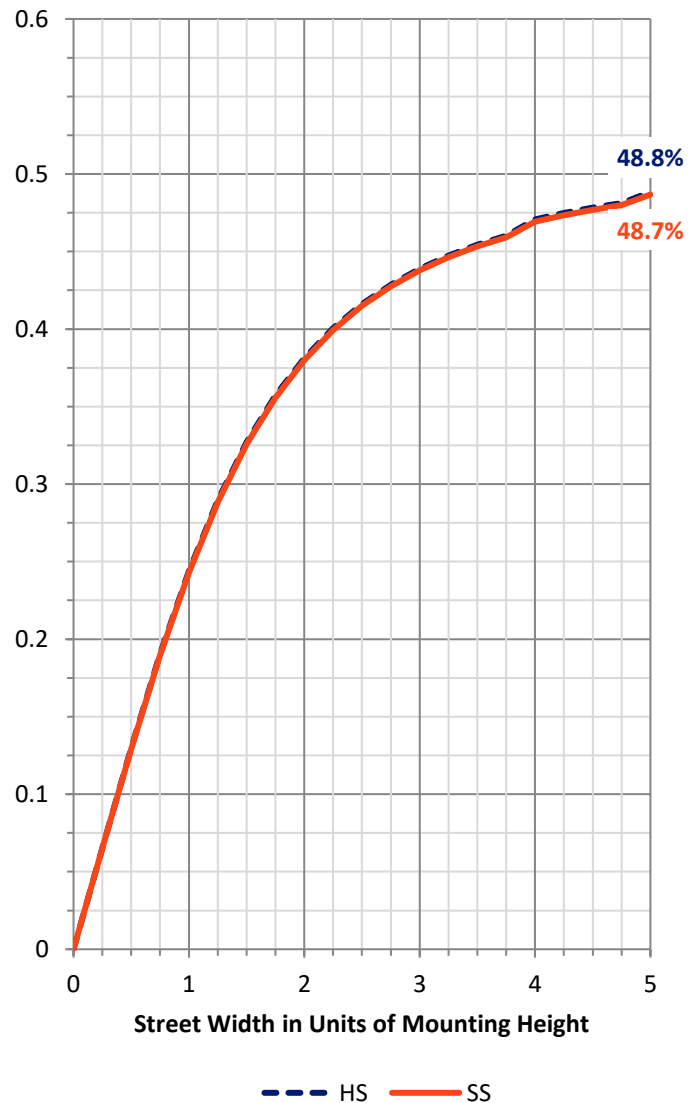
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3009.7	0.0	3009.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3009.7	0.0	3009.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	6019.4	0.0	6019.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.6	0.4
10°-20°	82.0	1.4
20°-30°	181.0	3.0
30°-40°	360.7	6.0
40°-50°	690.5	11.5
50°-60°	1236.0	20.5
60°-70°	1637.8	27.2
70°-80°	1366.8	22.7
80°-90°	441.0	7.3
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°	6019.4	100.0
0°-180°	6019.4	100.0

Coefficient of Utilization



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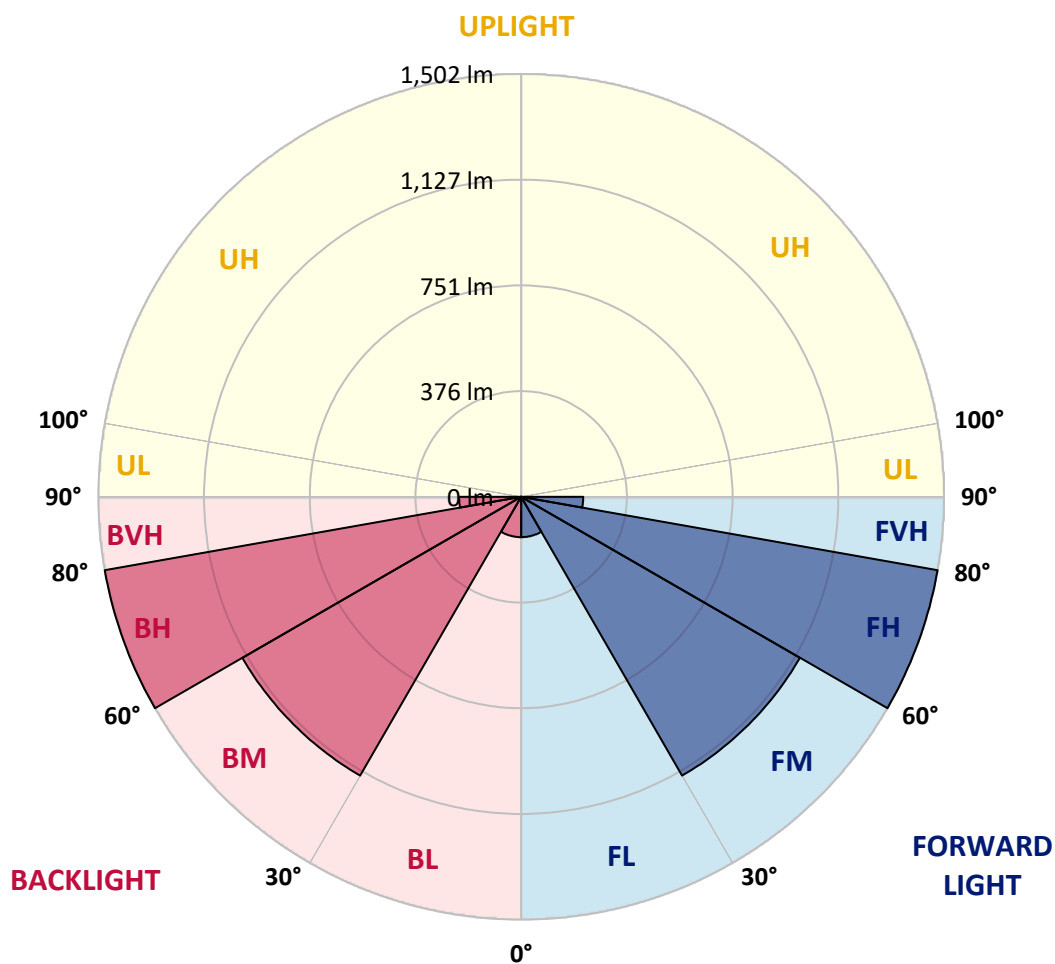
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	143.3	2.4			
FM	(30°-60°)	1143.6	19.0			
FH	(60°-80°)	1502.3	25.0			G1/1800
FVH	(80°-90°)	220.5	3.7			G2/225
BL	(0°-30°)	143.3	2.4	B1/500		
BM	(30°-60°)	1143.6	19.0	B2/2500		
BH	(60°-80°)	1502.3	25.0	B3/2500		G3/2500
BVH	(80°-90°)	220.5	3.7			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°	235.7	235.7	235.7	235.7	235.7	235.7	235.7	235.7	235.7	235.7	235.7
2.5°	238.1	238.1	238.1	238.1	239.3	239.3	239.3	239.3	239.3	239.3	239.3
5°	241.6	241.6	242.8	242.8	244.0	244.0	244.0	244.0	242.8	242.8	242.8
7.5°	247.5	248.7	249.9	249.9	249.9	248.7	247.5	247.5	246.4	246.4	246.4
10°	258.2	258.2	259.4	259.4	258.2	257.0	255.8	254.6	254.6	254.6	253.5
12.5°	271.2	271.2	272.4	271.2	268.9	267.7	265.3	264.1	264.1	262.9	262.9
15°	289.0	291.4	291.4	287.8	284.3	280.7	279.5	277.2	277.2	277.2	277.2
17.5°	316.2	315.1	310.3	306.8	304.4	298.5	296.1	294.9	292.5	292.5	292.5
20°	347.0	344.7	338.7	334.0	329.3	322.2	317.4	315.1	313.9	312.7	312.7
22.5°	381.4	377.8	369.5	366.0	356.5	349.4	343.5	338.7	335.2	334.0	336.4
25°	416.9	416.9	409.8	400.3	390.9	380.2	371.9	366.0	361.2	360.1	358.9
27.5°	454.8	457.2	447.7	438.2	427.6	413.4	405.1	396.8	395.6	394.4	393.2
30°	495.1	499.8	490.3	480.9	466.7	452.4	441.8	438.2	434.7	437.0	437.0
32.5°	544.8	547.2	536.5	529.4	510.5	496.3	486.8	484.4	485.6	484.4	488.0
35°	602.9	599.3	591.0	576.8	560.2	547.2	540.1	544.8	557.9	562.6	560.2
37.5°	666.8	653.8	649.1	631.3	615.9	605.2	607.6	619.4	630.1	638.4	636.0
40°	714.2	716.6	703.5	687.0	672.7	670.4	683.4	698.8	718.9	726.0	728.4
42.5°	762.8	777.0	761.6	745.0	737.9	742.6	761.6	792.4	837.4	861.1	857.5
45°	818.4	833.8	817.2	804.2	803.0	820.8	862.3	942.8	1009.1	1056.5	1061.2
47.5°	876.5	888.3	872.9	864.6	876.5	910.8	981.9	1089.7	1160.7	1216.4	1225.9
50°	949.9	945.2	933.3	932.1	958.2	1021.0	1116.9	1225.9	1353.8	1390.5	1402.3
52.5°	1022.1	1004.4	1002.0	1007.9	1054.1	1125.2	1253.1	1467.5	1655.8	1788.5	1802.7
55°	1089.7	1069.5	1074.3	1089.7	1154.8	1262.6	1440.2	1702.0	1866.6	1960.2	1964.9
57.5°	1151.2	1139.4	1150.1	1171.4	1268.5	1407.1	1595.4	1811.0	1935.3	2001.7	2013.5
60°	1214.0	1211.7	1224.7	1263.8	1368.0	1491.2	1648.7	1839.4	1963.8	2014.7	2026.5
62.5°	1273.2	1281.5	1298.1	1336.0	1416.6	1512.5	1665.3	1898.6	2084.6	2165.1	2185.2
65°	1336.0	1343.1	1363.3	1369.2	1441.4	1543.3	1777.8	2009.9	2166.3	2270.5	2284.7
67.5°	1392.9	1402.3	1395.2	1390.5	1453.3	1543.3	1755.3	1959.0	2089.3	2168.7	2184.1
70°	1447.4	1436.7	1408.3	1371.5	1389.3	1450.9	1645.1	1821.6	1953.1	2027.7	2043.1
72.5°	1461.6	1447.4	1371.5	1287.5	1261.4	1307.6	1486.4	1642.8	1750.6	1820.4	1829.9
75°	1424.8	1395.2	1267.3	1151.2	1101.5	1147.7	1296.9	1430.8	1506.6	1582.4	1588.3
77.5°	1278.0	1259.0	1116.9	976.0	920.3	954.6	1079.0	1173.8	1261.4	1334.8	1349.0
80°	1049.4	1032.8	907.3	792.4	717.8	741.4	832.6	908.4	992.5	1050.6	1068.3
82.5°	772.2	769.9	679.9	572.1	520.0	517.6	586.3	660.9	724.9	780.5	792.4
85°	485.6	485.6	424.0	358.9	304.4	305.6	347.0	401.5	482.1	517.6	521.1
87.5°	164.6	156.3	145.7	118.4	94.8	85.3	91.2	104.2	158.7	196.6	203.7
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°	235.7
2.5°	239.3
5°	242.8
7.5°	246.4
10°	253.5
12.5°	264.1
15°	276.0
17.5°	292.5
20°	312.7
22.5°	335.2
25°	358.9
27.5°	394.4
30°	435.9
32.5°	486.8
35°	561.4
37.5°	638.4
40°	734.3
42.5°	867.0
45°	1049.4
47.5°	1225.9
50°	1389.3
52.5°	1773.1
55°	1969.7
57.5°	2012.3
60°	2023.0
62.5°	2174.6
65°	2282.4
67.5°	2182.9
70°	2039.6
72.5°	1822.8
75°	1597.8
77.5°	1349.0
80°	1054.1
82.5°	792.4
85°	512.9
87.5°	197.8
90°	0.0

(END OF REPORT)