

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: P197982

Luminaire Tested: **TT-C5-LED-E1-RW-MS/DIM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197982
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-C5-LED-E1-RW-MS/DIM
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7290.5 lumens
Efficiency: N/A
Efficacy: 94.7 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): 77
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



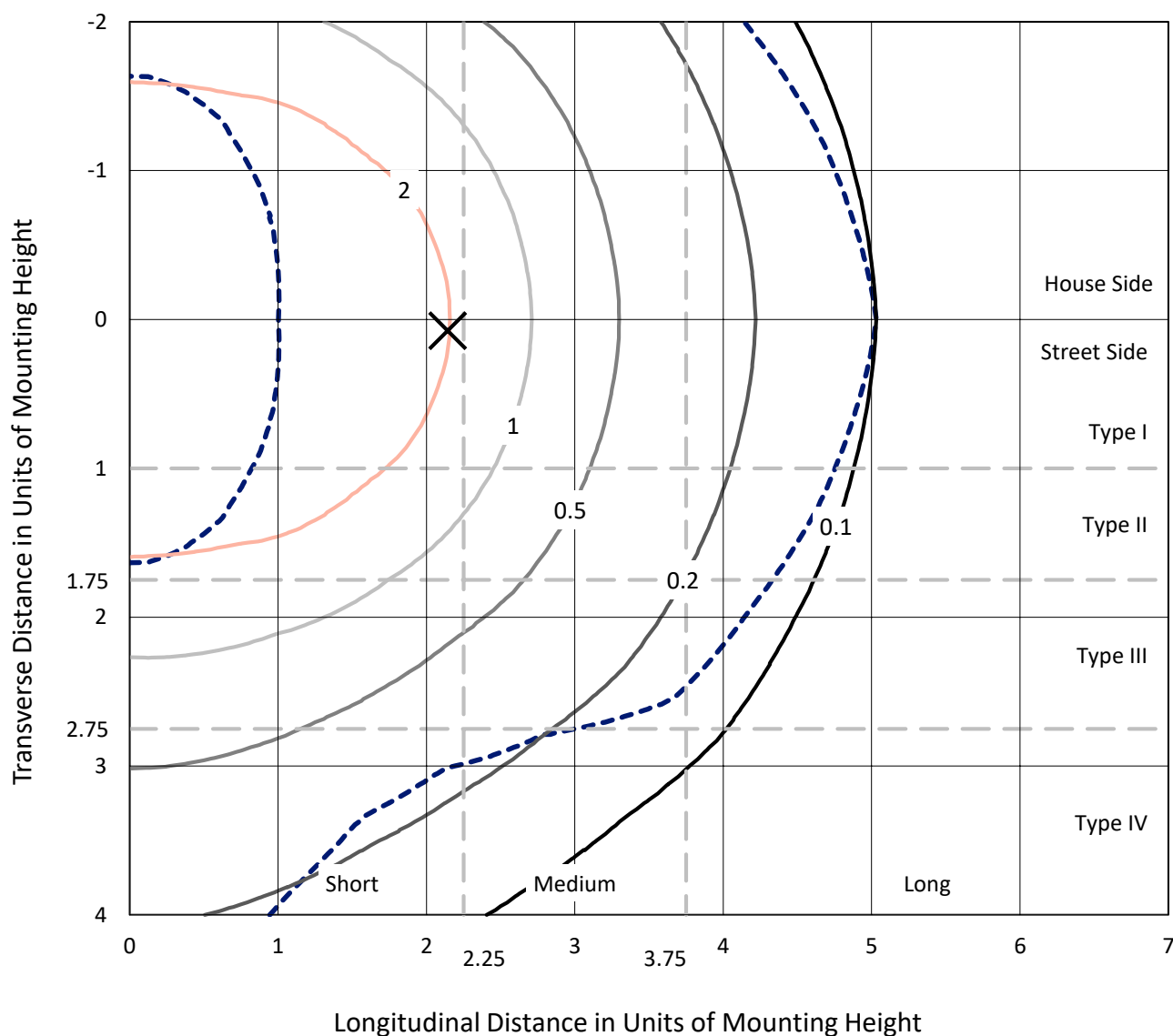
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

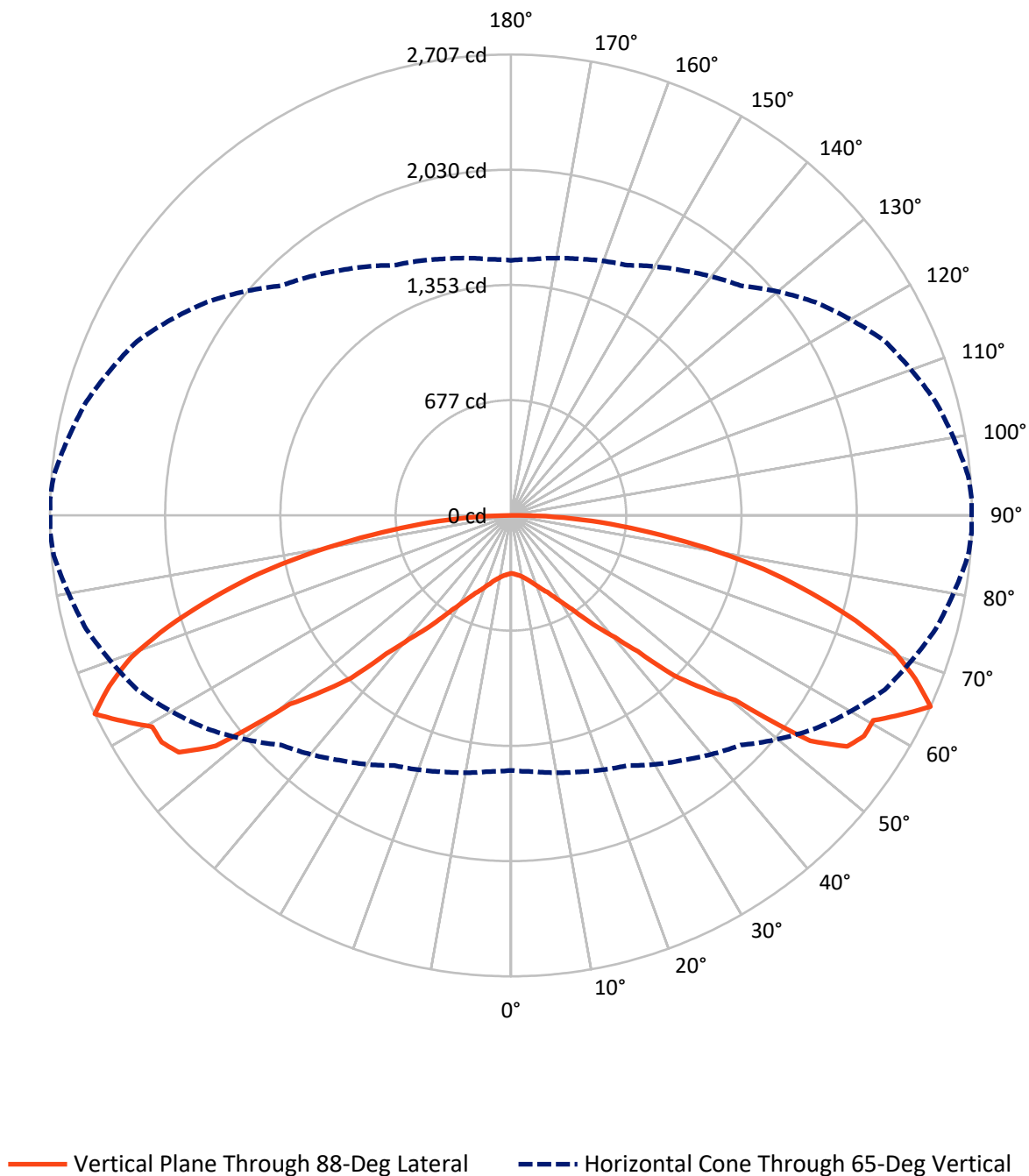


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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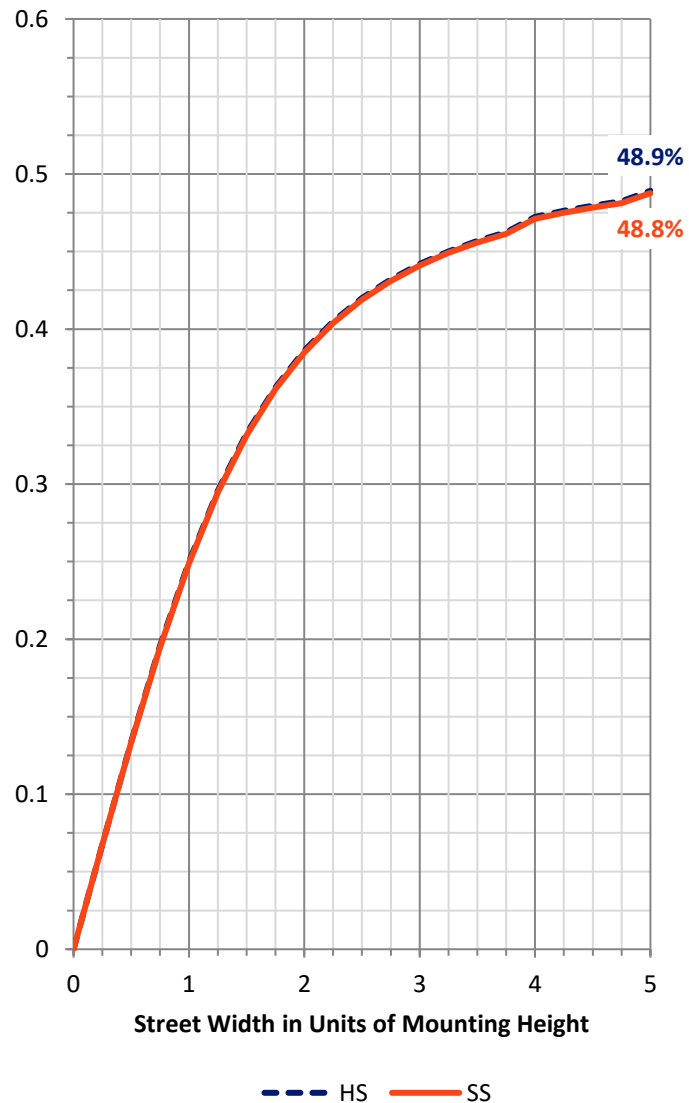
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3645.2	0.0	3645.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3645.2	0.0	3645.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	7290.5	0.0	7290.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	0.5
10°-20°	116.2	1.6
20°-30°	246.8	3.4
30°-40°	471.5	6.5
40°-50°	866.8	11.9
50°-60°	1501.2	20.6
60°-70°	1953.0	26.8
70°-80°	1600.6	22.0
80°-90°	500.4	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°	7290.5	100.0
0°-180°	7290.5	100.0

Coefficient of Utilization



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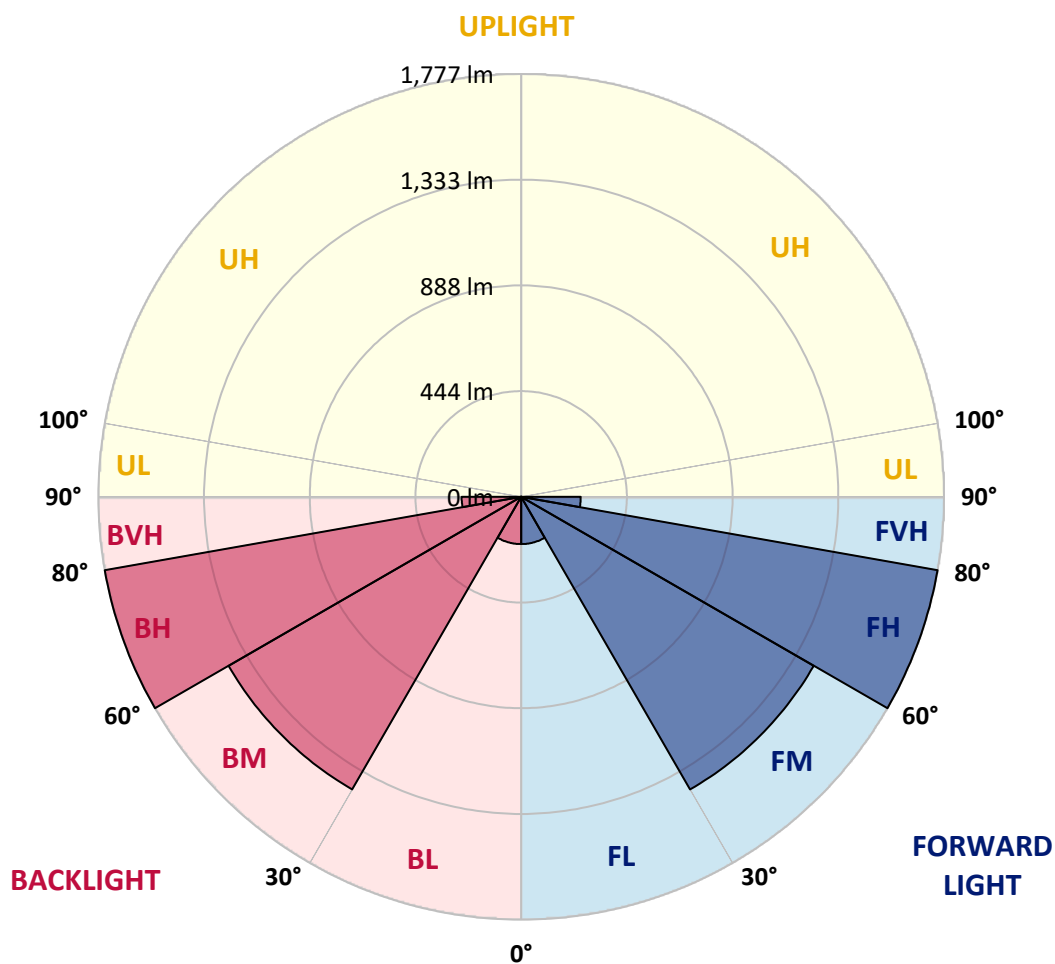
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	198.5	2.7			
FM	(30°-60°)	1419.8	19.5			
FH	(60°-80°)	1776.8	24.4			G1/1800
FVH	(80°-90°)	250.2	3.4			G3/500
BL	(0°-30°)	198.5	2.7	B1/500		
BM	(30°-60°)	1419.8	19.5	B2/2500		
BH	(60°-80°)	1776.8	24.4	B3/2500		G3/2500
BVH	(80°-90°)	250.2	3.4			G3/500
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°	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7
2.5°	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7
5°	349.9	349.9	349.9	351.4	351.4	351.4	351.4	351.4	349.9	349.9	349.9
7.5°	357.5	357.5	359.1	359.1	359.1	359.1	357.5	357.5	356.0	356.0	356.0
10°	369.8	369.8	371.3	371.3	369.8	368.3	368.3	368.3	366.7	366.7	366.7
12.5°	386.7	386.7	388.2	386.7	385.2	383.6	383.6	382.1	380.6	380.6	380.6
15°	409.7	409.7	408.2	405.1	402.0	402.0	397.4	397.4	397.4	397.4	395.9
17.5°	440.4	438.9	432.7	431.2	426.6	423.5	420.5	418.9	417.4	417.4	418.9
20°	474.2	471.1	463.4	463.4	455.7	451.1	448.1	445.0	445.0	443.5	441.9
22.5°	514.1	511.0	501.8	498.7	491.0	483.4	480.3	472.6	471.1	471.1	472.6
25°	554.0	555.5	547.8	541.7	530.9	523.3	512.5	507.9	503.3	503.3	500.2
27.5°	600.0	601.5	592.3	584.6	575.4	560.1	554.0	547.8	543.2	546.3	543.2
30°	649.1	652.2	644.5	635.3	621.5	606.1	598.5	596.9	592.3	595.4	593.9
32.5°	705.9	704.3	699.7	690.5	672.1	659.8	653.7	652.2	655.2	656.8	655.2
35°	771.9	765.7	761.1	747.3	730.4	721.2	715.1	721.2	735.0	744.2	741.2
37.5°	840.9	831.7	827.1	811.7	796.4	791.8	799.5	811.7	825.6	837.8	837.8
40°	897.7	900.7	890.0	876.2	863.9	868.5	882.3	903.8	931.4	943.7	942.2
42.5°	954.5	963.7	952.9	939.1	940.6	954.5	974.4	1014.3	1075.7	1094.1	1092.6
45°	1005.1	1025.0	1015.8	1006.6	1020.4	1043.5	1097.2	1186.2	1270.6	1333.5	1338.1
47.5°	1071.1	1081.8	1077.2	1077.2	1098.7	1152.4	1233.7	1358.0	1447.0	1506.9	1516.1
50°	1146.3	1135.5	1137.1	1150.9	1204.6	1284.4	1394.9	1511.5	1671.1	1698.7	1706.4
52.5°	1209.2	1190.8	1201.5	1227.6	1305.9	1407.1	1545.2	1784.6	1988.7	2172.8	2198.9
55°	1273.6	1252.1	1273.6	1315.1	1430.2	1571.3	1773.9	2051.6	2266.5	2381.5	2395.3
57.5°	1322.7	1319.7	1350.4	1410.2	1551.4	1740.1	1968.8	2206.6	2350.8	2432.2	2444.5
60°	1384.1	1387.2	1422.5	1502.3	1671.1	1852.1	2022.5	2240.4	2383.1	2430.6	2444.5
62.5°	1442.4	1454.7	1496.1	1586.7	1734.0	1872.1	2036.3	2300.2	2481.3	2584.1	2574.9
65°	1497.7	1509.9	1559.0	1620.4	1755.5	1907.4	2182.1	2421.4	2581.0	2694.6	2706.9
67.5°	1552.9	1568.3	1588.2	1637.3	1767.7	1910.4	2148.3	2349.3	2478.2	2556.5	2561.1
70°	1600.5	1598.9	1594.3	1608.2	1689.5	1800.0	2020.9	2180.5	2301.7	2366.2	2381.5
72.5°	1606.6	1602.0	1548.3	1508.4	1534.5	1622.0	1833.7	1961.1	2053.2	2106.9	2117.6
75°	1556.0	1529.9	1424.0	1338.1	1333.5	1420.9	1598.9	1691.0	1746.3	1815.3	1819.9
77.5°	1391.8	1362.6	1244.5	1127.9	1127.9	1184.6	1333.5	1382.6	1451.6	1503.8	1517.6
80°	1121.7	1118.6	995.9	903.8	870.1	917.6	1038.9	1057.3	1109.4	1153.9	1167.8
82.5°	811.7	788.7	721.2	643.0	615.3	646.0	728.9	747.3	767.2	807.1	824.0
85°	491.0	492.6	446.5	402.0	366.7	377.5	441.9	468.0	494.1	520.2	529.4
87.5°	176.5	204.1	159.6	141.2	122.8	116.6	136.6	168.8	198.0	234.8	254.7
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°	340.7
2.5°	343.7
5°	348.3
7.5°	356.0
10°	366.7
12.5°	380.6
15°	395.9
17.5°	415.8
20°	441.9
22.5°	469.6
25°	501.8
27.5°	546.3
30°	592.3
32.5°	655.2
35°	748.8
37.5°	837.8
40°	946.8
42.5°	1098.7
45°	1344.2
47.5°	1514.5
50°	1720.2
52.5°	2177.5
55°	2400.0
57.5°	2447.5
60°	2444.5
62.5°	2599.4
65°	2705.3
67.5°	2564.1
70°	2387.7
72.5°	2113.0
75°	1830.7
77.5°	1525.3
80°	1173.9
82.5°	817.9
85°	550.9
87.5°	227.1
90°	0.0

(END OF REPORT)