

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: P400674

Luminaire Tested: **TT-D5-840-U-RW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P197998)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D5-840-U-RW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
4000K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7915 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 74.7
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: 28.75 FT

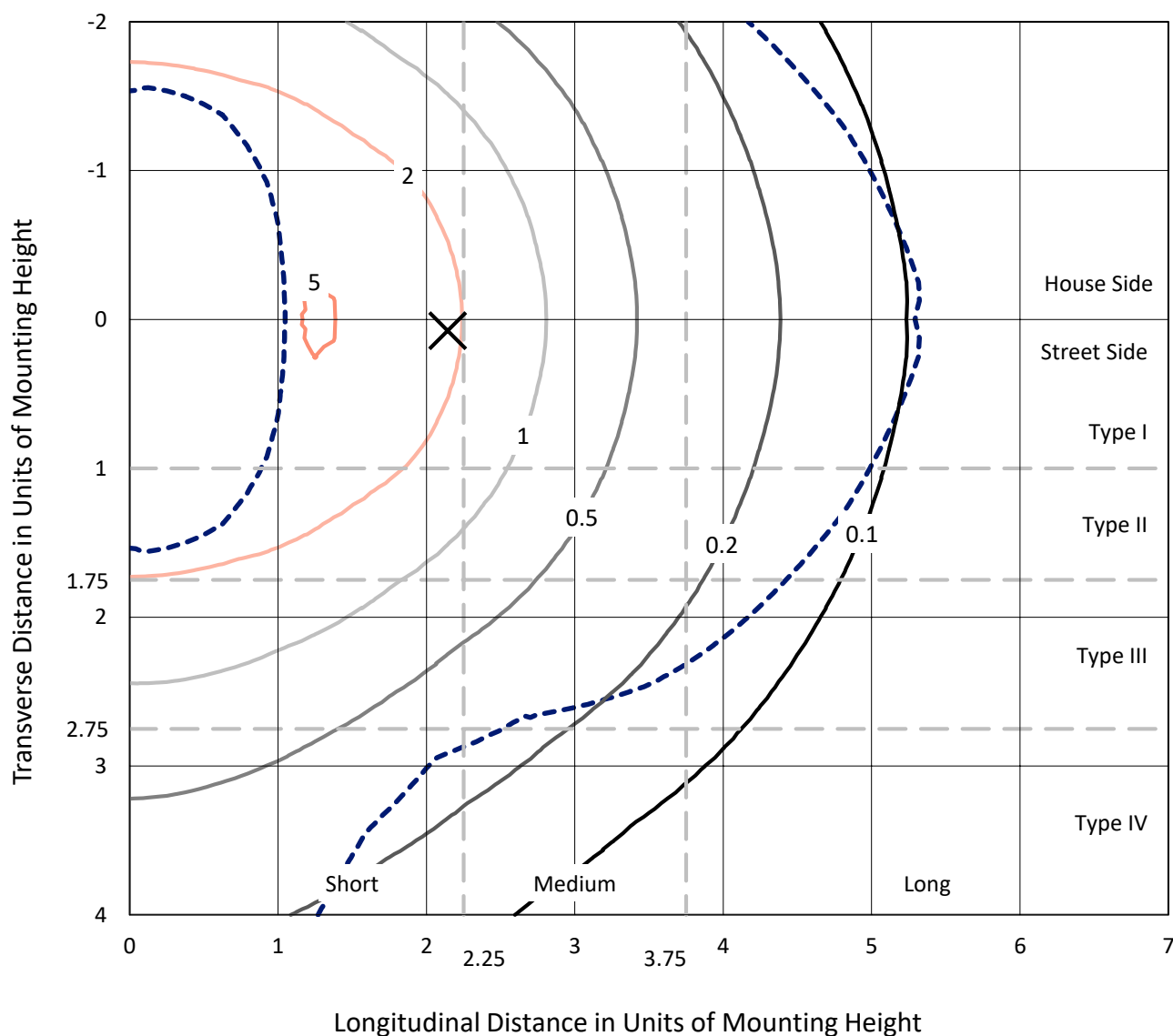


REPORT NUMBER: P400674

CATALOG NUMBER: TT-D5-840-U-RW

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

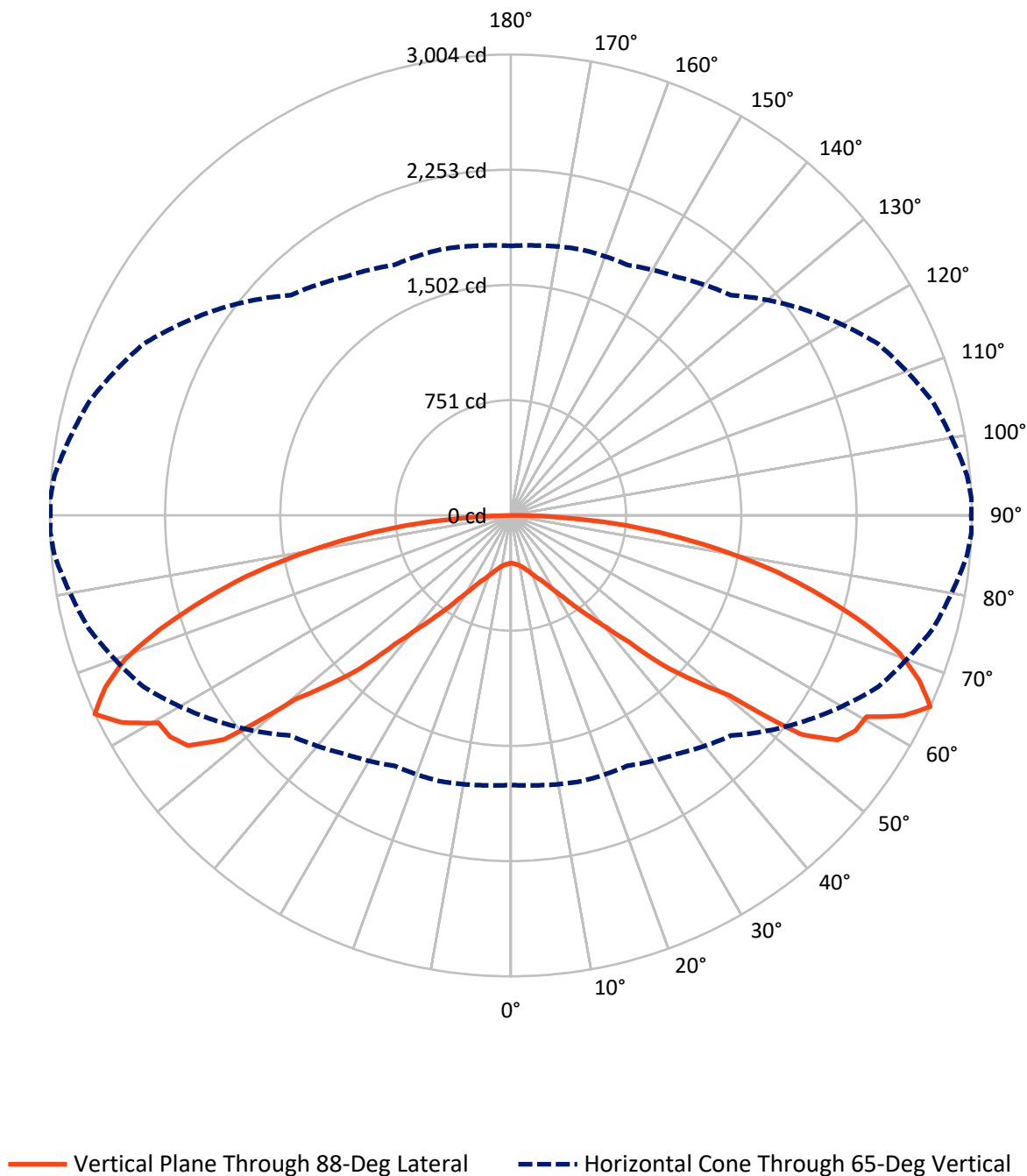


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P400674

CATALOG NUMBER: TT-D5-840-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P400674

CATALOG NUMBER: TT-D5-840-U-RW

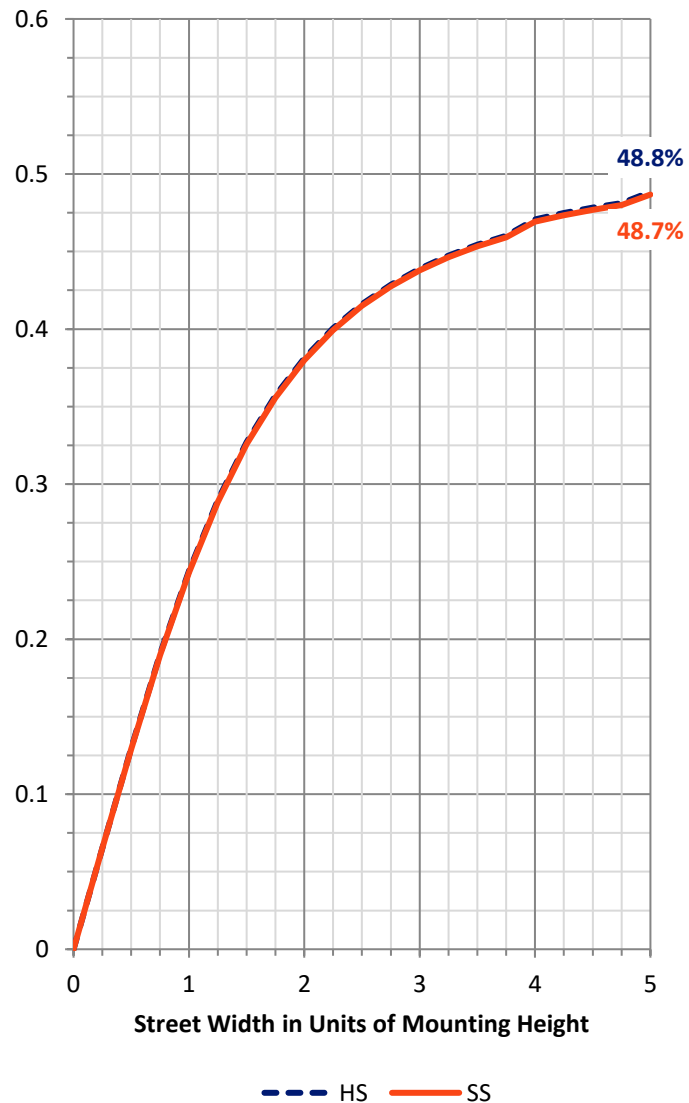
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3957.5	0.0	3957.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3957.5	0.0	3957.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7915.0	0.0	7915.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.0	0.4
10°-20°	107.8	1.4
20°-30°	238.0	3.0
30°-40°	474.3	6.0
40°-50°	908.0	11.5
50°-60°	1625.2	20.5
60°-70°	2153.6	27.2
70°-80°	1797.2	22.7
80°-90°	579.9	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°	7915.0	100.0
0°-180°	7915.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400674

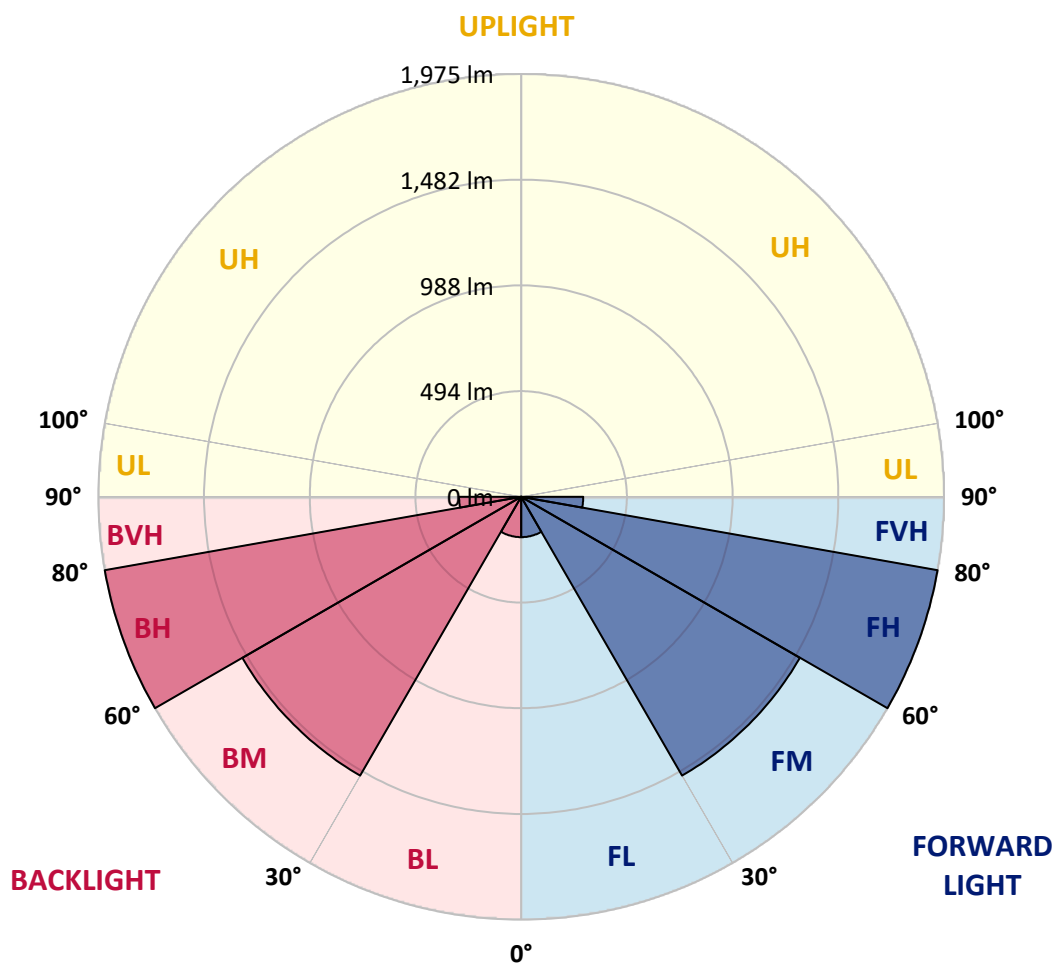
CATALOG NUMBER: TT-D5-840-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	188.4	2.4			
FM	(30°-60°)	1503.8	19.0			
FH	(60°-80°)	1975.4	25.0			G2/5000
FVH	(80°-90°)	289.9	3.7			G3/500
BL	(0°-30°)	188.4	2.4	B1/500		
BM	(30°-60°)	1503.8	19.0	B2/2500		
BH	(60°-80°)	1975.4	25.0	B3/2500		G2/5000
BVH	(80°-90°)	289.9	3.7			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 V Short





REPORT NUMBER: P400674

CATALOG NUMBER: TT-D5-840-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
0°	309.9	309.9	309.9	309.9	309.9	309.9	309.9	309.9	309.9	309.9	309.9
2.5°	313.0	313.0	313.0	313.0	314.6	314.6	314.6	314.6	314.6	314.6	314.6
5°	317.7	317.7	319.3	319.3	320.8	320.8	320.8	320.8	319.3	319.3	319.3
7.5°	325.5	327.1	328.6	328.6	328.6	327.1	325.5	325.5	323.9	323.9	323.9
10°	339.5	339.5	341.1	341.1	339.5	338.0	336.4	334.8	334.8	334.8	333.3
12.5°	356.6	356.6	358.2	356.6	353.5	352.0	348.9	347.3	347.3	345.7	345.7
15°	380.0	383.1	383.1	378.4	373.8	369.1	367.5	364.4	364.4	364.4	364.4
17.5°	415.8	414.3	408.0	403.4	400.3	392.5	389.4	387.8	384.7	384.7	384.7
20°	456.3	453.2	445.4	439.2	433.0	423.6	417.4	414.3	412.7	411.2	411.2
22.5°	501.5	496.8	485.9	481.2	468.8	459.4	451.6	445.4	440.7	439.2	442.3
25°	548.2	548.2	538.9	526.4	513.9	499.9	489.0	481.2	475.0	473.5	471.9
27.5°	598.0	601.2	588.7	576.2	562.2	543.5	532.6	521.7	520.2	518.6	517.1
30°	651.0	657.2	644.8	632.3	613.6	594.9	580.9	576.2	571.6	574.7	574.7
32.5°	716.4	719.5	705.5	696.2	671.2	652.6	640.1	637.0	638.5	637.0	641.6
35°	792.7	788.0	777.1	758.5	736.7	719.5	710.2	716.4	733.5	739.8	736.7
37.5°	876.8	859.7	853.5	830.1	809.8	795.8	798.9	814.5	828.5	839.4	836.3
40°	939.1	942.2	925.1	903.3	884.6	881.5	898.6	918.9	945.3	954.7	957.8
42.5°	1003.0	1021.7	1001.4	979.6	970.3	976.5	1001.4	1041.9	1101.1	1132.2	1127.6
45°	1076.2	1096.4	1074.6	1057.5	1055.9	1079.3	1133.8	1239.7	1326.9	1389.2	1395.4
47.5°	1152.5	1168.1	1147.8	1136.9	1152.5	1197.6	1291.1	1432.8	1526.3	1599.5	1611.9
50°	1249.0	1242.8	1227.2	1225.7	1259.9	1342.5	1468.6	1611.9	1780.1	1828.4	1844.0
52.5°	1344.0	1320.7	1317.6	1325.3	1386.1	1479.5	1647.7	1929.6	2177.2	2351.7	2370.4
55°	1432.8	1406.3	1412.6	1432.8	1518.5	1660.2	1893.8	2238.0	2454.5	2577.5	2583.7
57.5°	1513.8	1498.2	1512.2	1540.3	1668.0	1850.2	2097.8	2381.3	2544.8	2632.0	2647.6
60°	1596.3	1593.2	1610.4	1661.7	1798.8	1960.8	2167.9	2418.6	2582.2	2649.1	2664.7
62.5°	1674.2	1685.1	1706.9	1756.7	1862.7	1988.8	2189.7	2496.5	2741.0	2846.9	2873.4
65°	1756.7	1766.1	1792.6	1800.4	1895.4	2029.3	2337.7	2642.9	2848.5	2985.5	3004.2
67.5°	1831.5	1844.0	1834.6	1828.4	1910.9	2029.3	2308.1	2575.9	2747.3	2851.6	2871.8
70°	1903.1	1889.1	1851.8	1803.5	1826.8	1907.8	2163.2	2395.3	2568.2	2666.3	2686.5
72.5°	1921.8	1903.1	1803.5	1692.9	1658.6	1719.4	1954.5	2160.1	2301.8	2393.7	2406.2
75°	1873.6	1834.6	1666.4	1513.8	1448.4	1509.1	1705.4	1881.3	1981.0	2080.7	2088.5
77.5°	1680.4	1655.5	1468.6	1283.3	1210.1	1255.3	1418.8	1543.4	1658.6	1755.2	1773.9
80°	1379.9	1358.1	1193.0	1041.9	943.8	974.9	1094.9	1194.5	1305.1	1381.4	1404.8
82.5°	1015.4	1012.3	893.9	752.2	683.7	680.6	770.9	869.0	953.1	1026.3	1041.9
85°	638.5	638.5	557.5	471.9	400.3	401.8	456.3	528.0	633.9	680.6	685.3
87.5°	216.5	205.6	191.6	155.7	124.6	112.1	119.9	137.1	208.7	258.5	267.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P400674

CATALOG NUMBER: TT-D5-840-U-RW

CANDELA DISTRIBUTION (continued):

	90°
0°	309.9
2.5°	314.6
5°	319.3
7.5°	323.9
10°	333.3
12.5°	347.3
15°	362.9
17.5°	384.7
20°	411.2
22.5°	440.7
25°	471.9
27.5°	518.6
30°	573.1
32.5°	640.1
35°	738.2
37.5°	839.4
40°	965.6
42.5°	1140.0
45°	1379.9
47.5°	1611.9
50°	1826.8
52.5°	2331.4
55°	2590.0
57.5°	2646.0
60°	2660.0
62.5°	2859.4
65°	3001.1
67.5°	2870.3
70°	2681.8
72.5°	2396.8
75°	2100.9
77.5°	1773.9
80°	1386.1
82.5°	1041.9
85°	674.4
87.5°	260.1
90°	0.0

(END OF REPORT)