

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: P400648

Luminaire Tested: **TT-D4-827-U-RW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400648
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-D4-827-U-RW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
2700K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5559 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 57.6
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

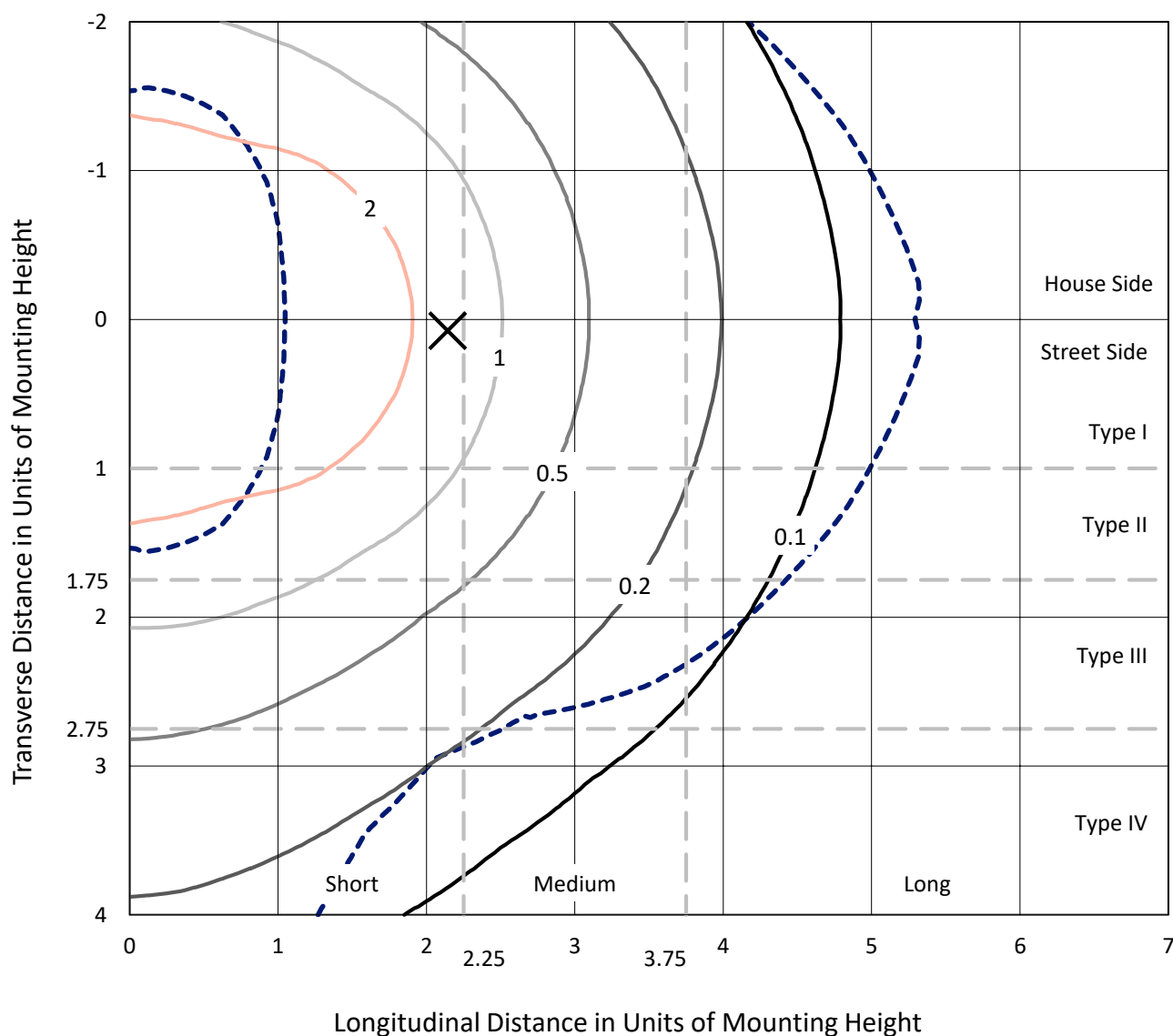


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

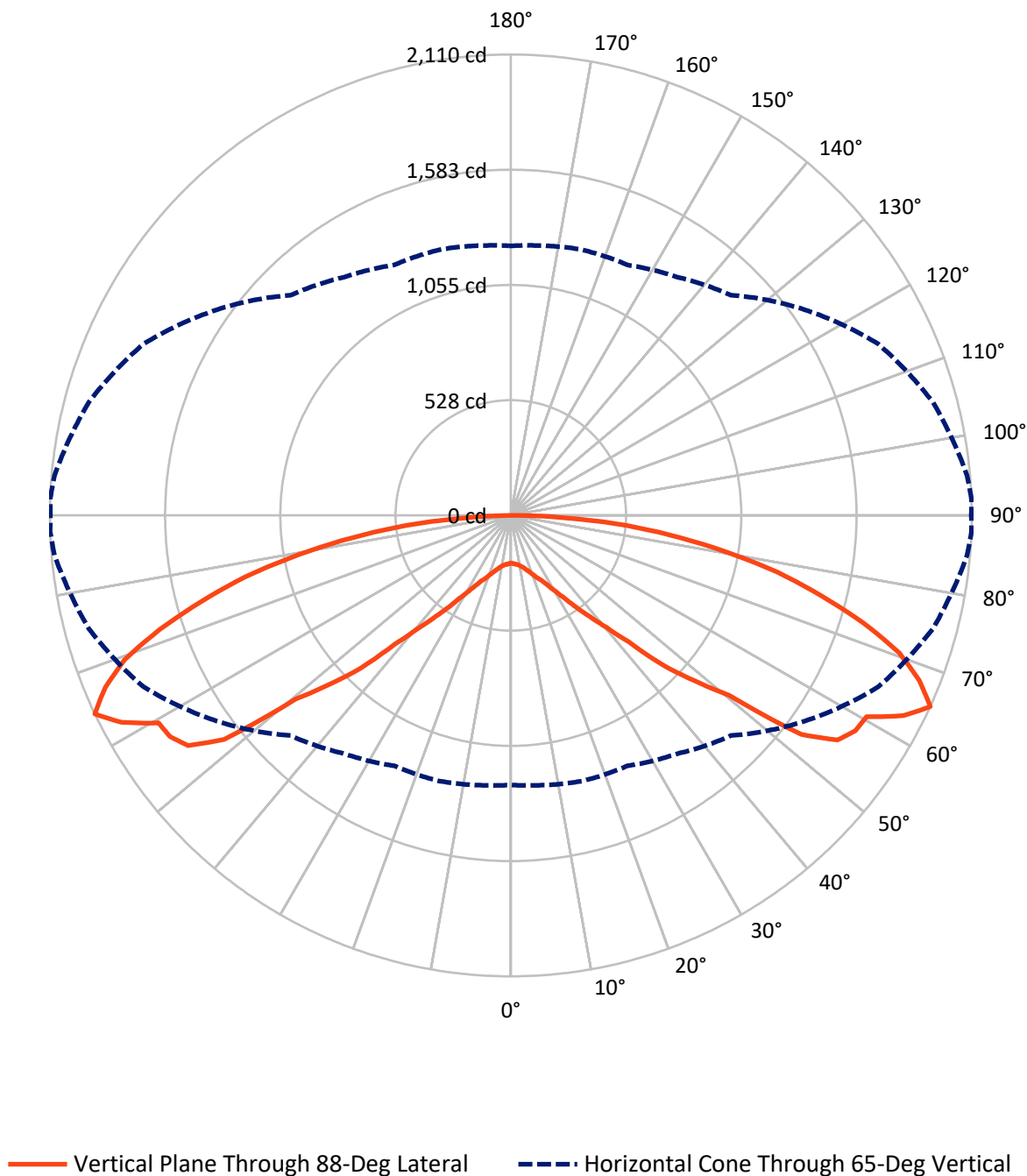


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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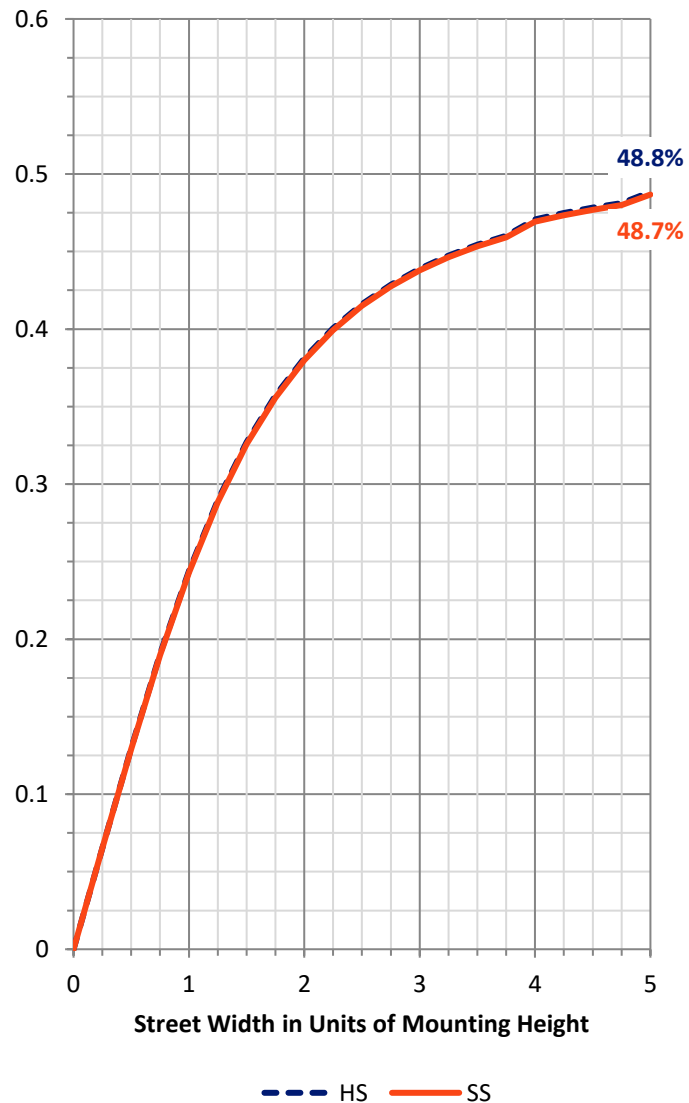
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2779.5	0.0	2779.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2779.5	0.0	2779.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5559.0	0.0	5559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.8	0.4
10°-20°	75.7	1.4
20°-30°	167.2	3.0
30°-40°	333.1	6.0
40°-50°	637.7	11.5
50°-60°	1141.4	20.5
60°-70°	1512.5	27.2
70°-80°	1262.2	22.7
80°-90°	407.3	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°	5559.0	100.0
0°-180°	5559.0	100.0

Coefficient of Utilization



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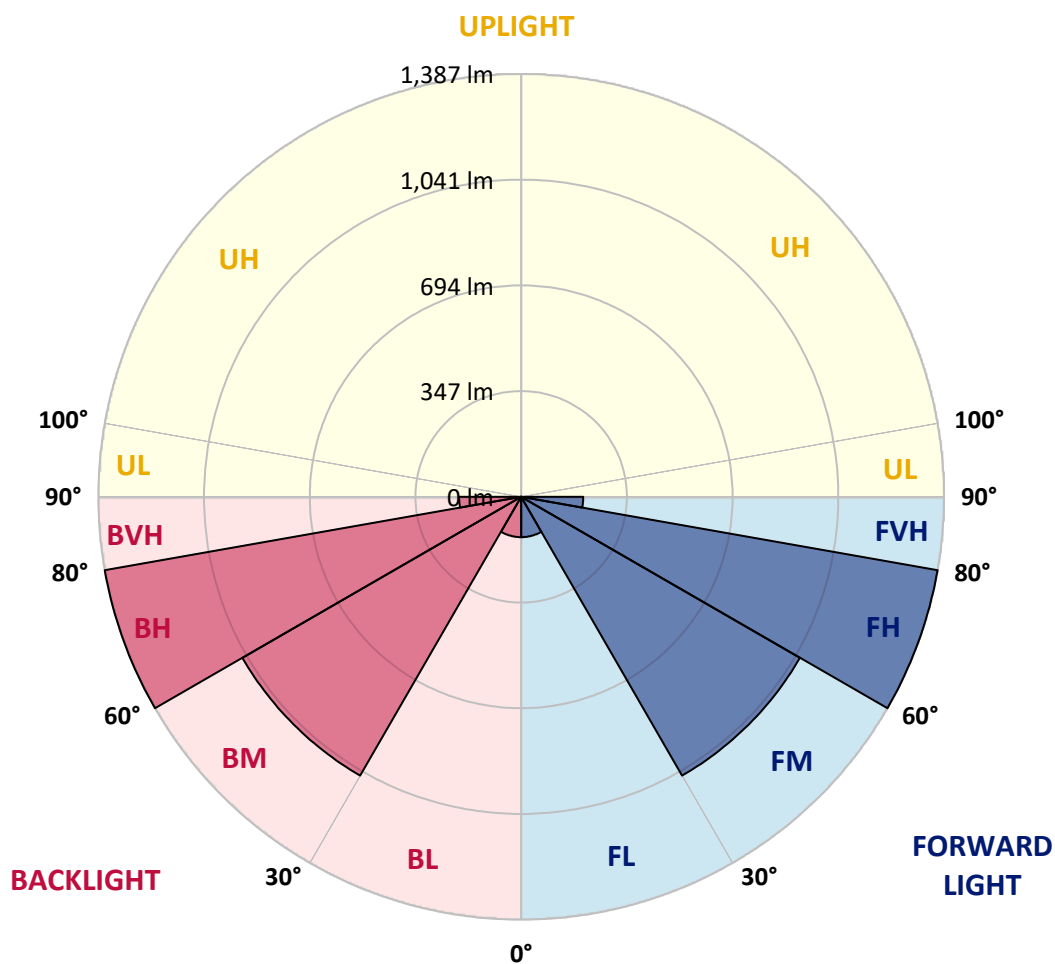
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	132.3	2.4			
FM	(30°-60°)	1056.1	19.0			
FH	(60°-80°)	1387.4	25.0			G1/1800
FVH	(80°-90°)	203.6	3.7			G2/225
BL	(0°-30°)	132.3	2.4	B1/500		
BM	(30°-60°)	1056.1	19.0	B2/2500		
BH	(60°-80°)	1387.4	25.0	B3/2500		G1/1800
BVH	(80°-90°)	203.6	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
0°	217.7	217.7	217.7	217.7	217.7	217.7	217.7	217.7	217.7	217.7	217.7
2.5°	219.9	219.9	219.9	219.9	221.0	221.0	221.0	221.0	221.0	221.0	221.0
5°	223.1	223.1	224.2	224.2	225.3	225.3	225.3	225.3	224.2	224.2	224.2
7.5°	228.6	229.7	230.8	230.8	230.8	229.7	228.6	228.6	227.5	227.5	227.5
10°	238.5	238.5	239.5	239.5	238.5	237.4	236.3	235.2	235.2	235.2	234.1
12.5°	250.5	250.5	251.6	250.5	248.3	247.2	245.0	243.9	243.9	242.8	242.8
15°	266.9	269.1	269.1	265.8	262.5	259.2	258.1	256.0	256.0	256.0	256.0
17.5°	292.1	291.0	286.6	283.3	281.1	275.6	273.5	272.4	270.2	270.2	270.2
20°	320.5	318.3	312.8	308.5	304.1	297.5	293.1	291.0	289.9	288.8	288.8
22.5°	352.2	348.9	341.3	338.0	329.2	322.7	317.2	312.8	309.6	308.5	310.6
25°	385.0	385.0	378.5	369.7	361.0	351.1	343.5	338.0	333.6	332.5	331.4
27.5°	420.0	422.2	413.5	404.7	394.9	381.7	374.1	366.4	365.3	364.2	363.1
30°	457.2	461.6	452.8	444.1	431.0	417.8	408.0	404.7	401.4	403.6	403.6
32.5°	503.2	505.3	495.5	488.9	471.4	458.3	449.6	447.4	448.5	447.4	450.7
35°	556.8	553.5	545.8	532.7	517.4	505.3	498.8	503.2	515.2	519.6	517.4
37.5°	615.8	603.8	599.4	583.0	568.8	558.9	561.1	572.1	581.9	589.6	587.4
40°	659.6	661.8	649.7	634.4	621.3	619.1	631.1	645.4	663.9	670.5	672.7
42.5°	704.4	717.5	703.3	688.0	681.5	685.8	703.3	731.8	773.3	795.2	791.9
45°	755.8	770.1	754.7	742.7	741.6	758.0	796.3	870.7	931.9	975.7	980.1
47.5°	809.4	820.4	806.1	798.5	809.4	841.1	906.8	1006.3	1071.9	1123.4	1132.1
50°	877.2	872.9	861.9	860.8	884.9	942.9	1031.5	1132.1	1250.2	1284.1	1295.1
52.5°	944.0	927.6	925.4	930.8	973.5	1039.1	1157.3	1355.2	1529.2	1651.7	1664.8
55°	1006.3	987.7	992.1	1006.3	1066.5	1166.0	1330.1	1571.8	1723.9	1810.3	1814.6
57.5°	1063.2	1052.3	1062.1	1081.8	1171.5	1299.5	1473.4	1672.5	1787.3	1848.6	1859.5
60°	1121.2	1119.0	1131.0	1167.1	1263.4	1377.1	1522.6	1698.7	1813.6	1860.6	1871.5
62.5°	1175.9	1183.5	1198.8	1233.8	1308.2	1396.8	1537.9	1753.4	1925.1	1999.5	2018.1
65°	1233.8	1240.4	1259.0	1264.5	1331.2	1425.2	1641.8	1856.2	2000.6	2096.9	2110.0
67.5°	1286.3	1295.1	1288.5	1284.1	1342.1	1425.2	1621.0	1809.2	1929.5	2002.8	2017.0
70°	1336.6	1326.8	1300.6	1266.6	1283.1	1339.9	1519.3	1682.3	1803.7	1872.6	1886.8
72.5°	1349.8	1336.6	1266.6	1189.0	1164.9	1207.6	1372.7	1517.1	1616.7	1681.2	1690.0
75°	1315.9	1288.5	1170.4	1063.2	1017.3	1059.9	1197.7	1321.3	1391.3	1461.3	1466.8
77.5°	1180.2	1162.7	1031.5	901.3	849.9	881.6	996.5	1084.0	1164.9	1232.7	1245.9
80°	969.1	953.8	837.9	731.8	662.9	684.7	769.0	839.0	916.6	970.2	986.6
82.5°	713.2	711.0	627.9	528.3	480.2	478.0	541.4	610.4	669.4	720.8	731.8
85°	448.5	448.5	391.6	331.4	281.1	282.2	320.5	370.8	445.2	478.0	481.3
87.5°	152.0	144.4	134.5	109.4	87.5	78.8	84.2	96.3	146.6	181.6	188.1
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°	217.7
2.5°	221.0
5°	224.2
7.5°	227.5
10°	234.1
12.5°	243.9
15°	254.9
17.5°	270.2
20°	288.8
22.5°	309.6
25°	331.4
27.5°	364.2
30°	402.5
32.5°	449.6
35°	518.5
37.5°	589.6
40°	678.2
42.5°	800.7
45°	969.1
47.5°	1132.1
50°	1283.1
52.5°	1637.5
55°	1819.0
57.5°	1858.4
60°	1868.2
62.5°	2008.3
65°	2107.8
67.5°	2015.9
70°	1883.6
72.5°	1683.4
75°	1475.6
77.5°	1245.9
80°	973.5
82.5°	731.8
85°	473.6
87.5°	182.7
90°	0.0

(END OF REPORT)