

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: P400658

Luminaire Tested: **TT-D4-840-U-RW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400658
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-D4-840-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: 6289 lumens
Efficiency: N/A
Efficacy: 109.2 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): 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

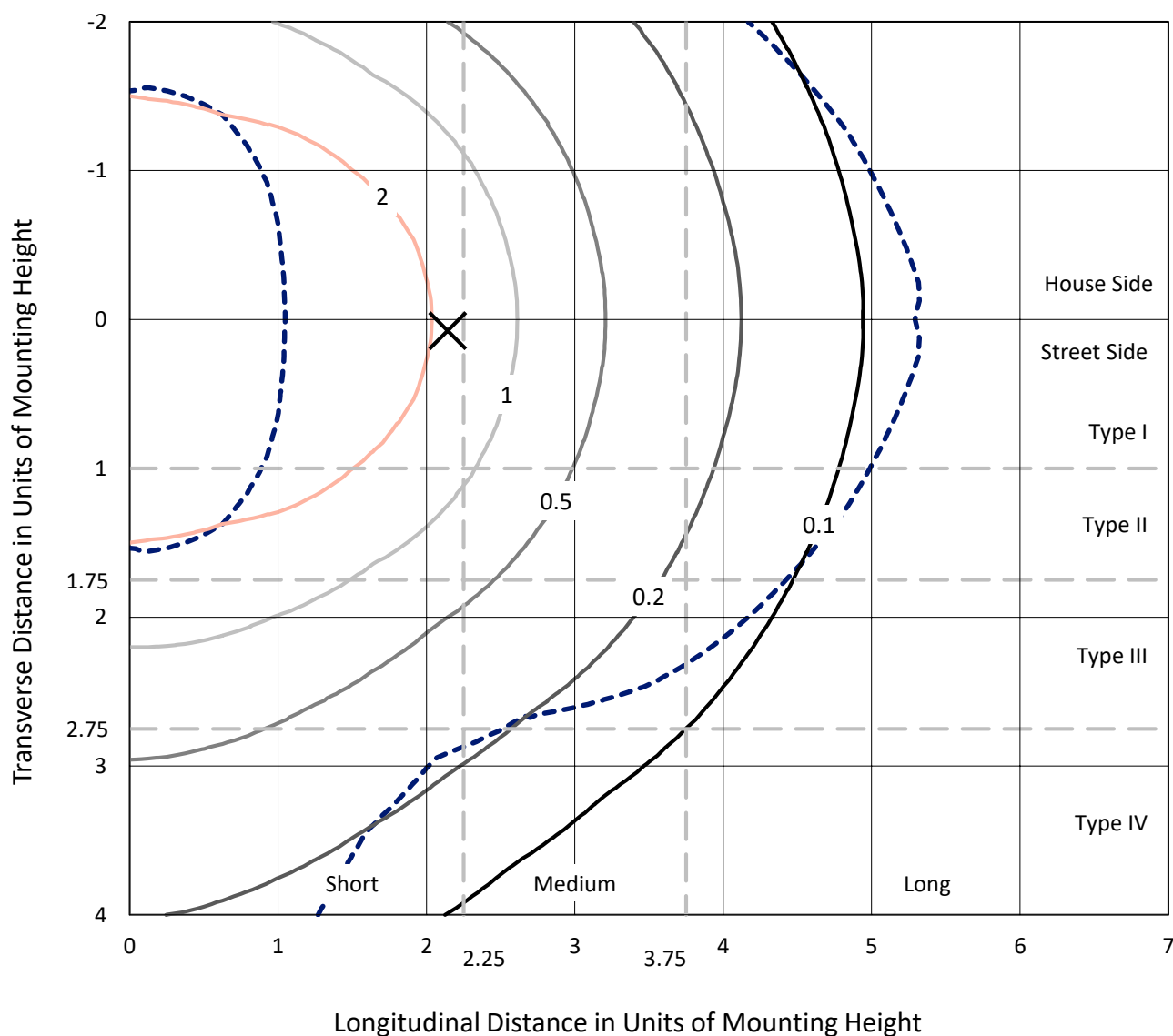


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

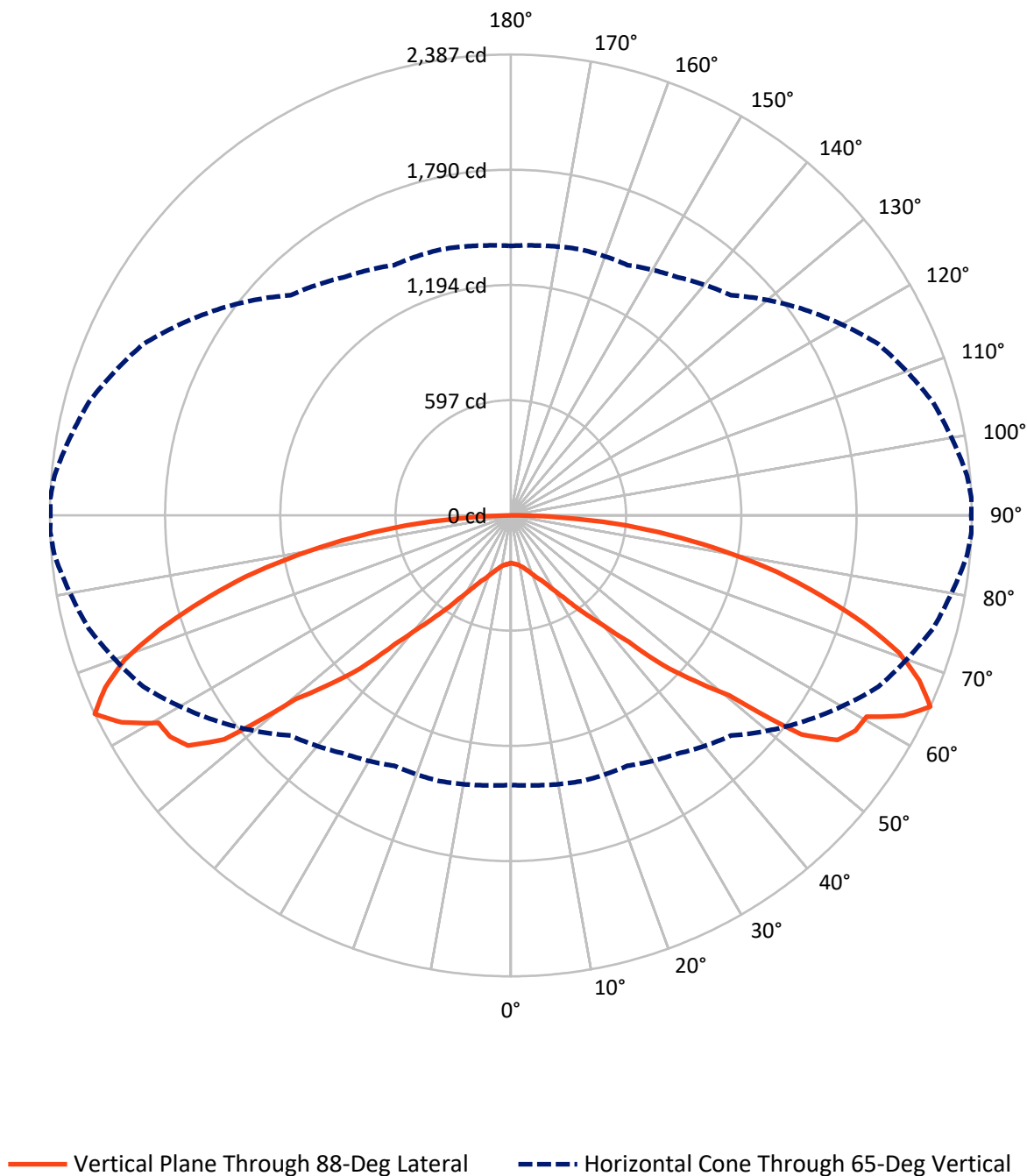


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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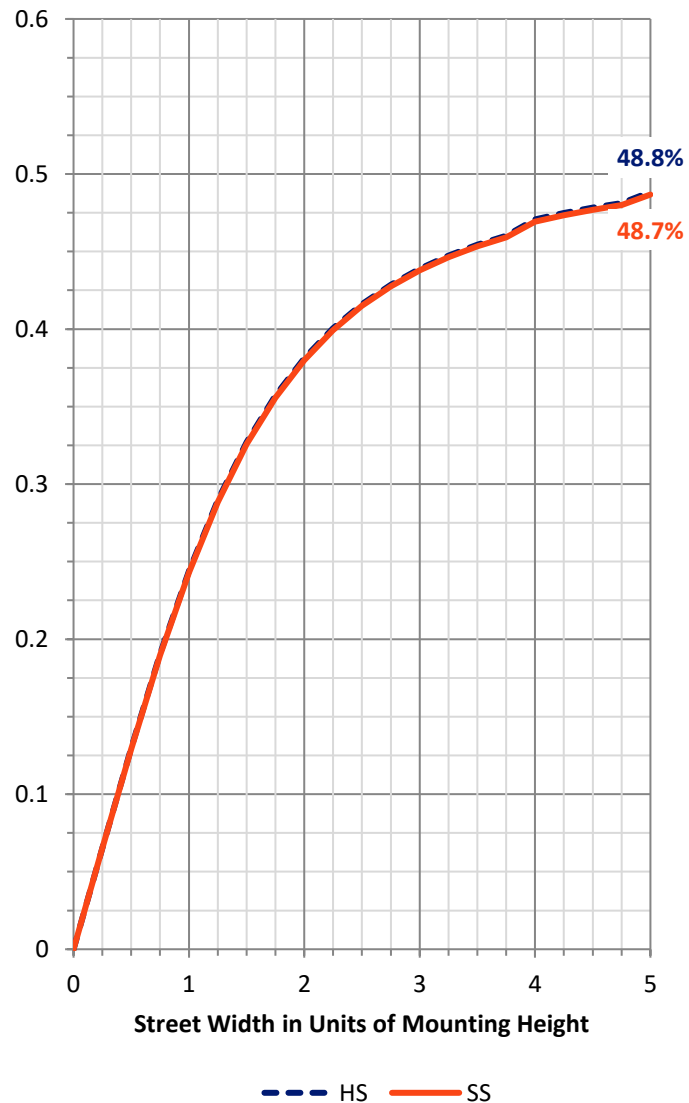
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3144.5	0.0	3144.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3144.5	0.0	3144.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6289.0	0.0	6289.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.7	0.4
10°-20°	85.6	1.4
20°-30°	189.1	3.0
30°-40°	376.9	6.0
40°-50°	721.5	11.5
50°-60°	1291.3	20.5
60°-70°	1711.2	27.2
70°-80°	1428.0	22.7
80°-90°	460.7	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°	6289.0	100.0
0°-180°	6289.0	100.0

Coefficient of Utilization



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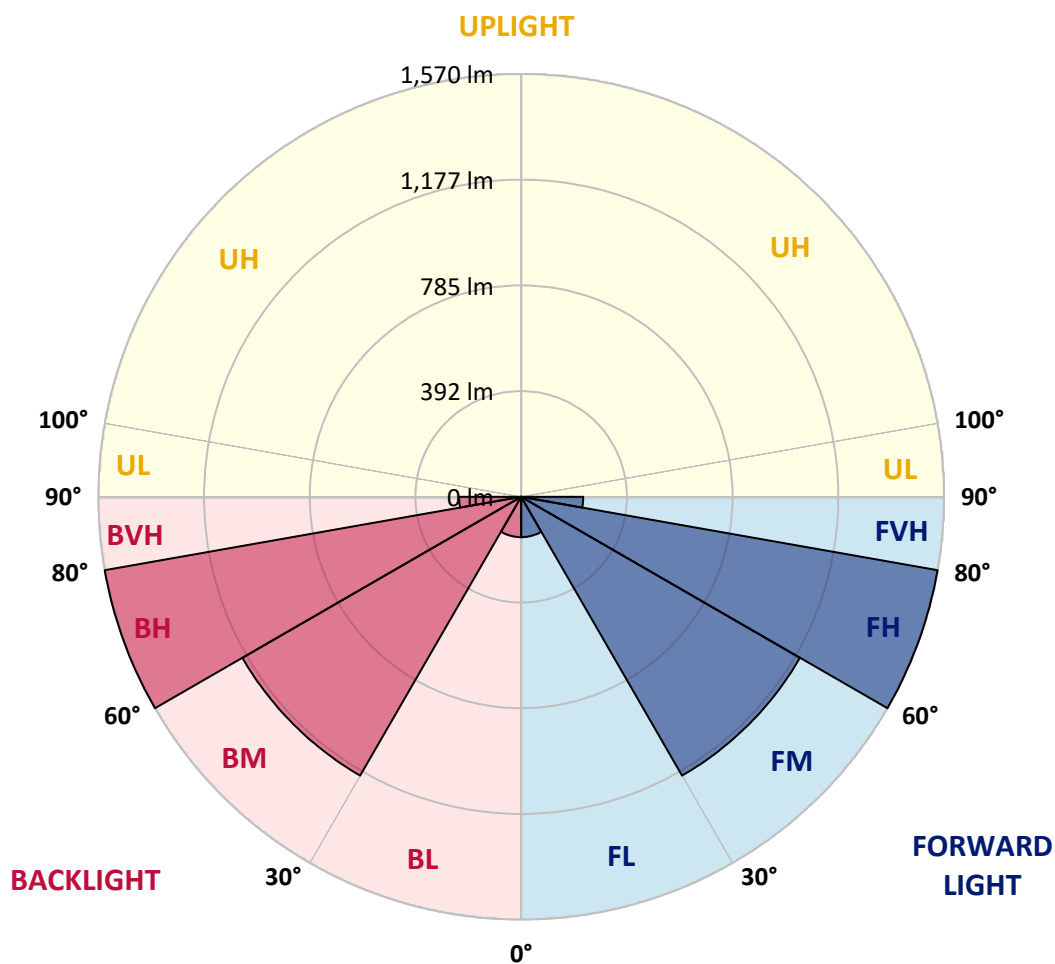
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	149.7	2.4			
FM	(30°-60°)	1194.8	19.0			
FH	(60°-80°)	1569.6	25.0			G1/1800
FVH	(80°-90°)	230.4	3.7			G3/500
BL	(0°-30°)	149.7	2.4	B1/500		
BM	(30°-60°)	1194.8	19.0	B2/2500		
BH	(60°-80°)	1569.6	25.0	B3/2500		G1/1800
BVH	(80°-90°)	230.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
0°	246.3	246.3	246.3	246.3	246.3	246.3	246.3	246.3	246.3	246.3	246.3
2.5°	248.7	248.7	248.7	248.7	250.0	250.0	250.0	250.0	250.0	250.0	250.0
5°	252.4	252.4	253.7	253.7	254.9	254.9	254.9	254.9	253.7	253.7	253.7
7.5°	258.6	259.9	261.1	261.1	261.1	259.9	258.6	258.6	257.4	257.4	257.4
10°	269.8	269.8	271.0	271.0	269.8	268.5	267.3	266.1	266.1	266.1	264.8
12.5°	283.4	283.4	284.6	283.4	280.9	279.7	277.2	276.0	276.0	274.7	274.7
15°	301.9	304.4	304.4	300.7	297.0	293.3	292.0	289.6	289.6	289.6	289.6
17.5°	330.4	329.2	324.2	320.5	318.0	311.8	309.4	308.1	305.7	305.7	305.7
20°	362.6	360.1	353.9	349.0	344.0	336.6	331.6	329.2	327.9	326.7	326.7
22.5°	398.5	394.7	386.1	382.4	372.5	365.1	358.9	353.9	350.2	349.0	351.4
25°	435.6	435.6	428.2	418.3	408.4	397.2	388.6	382.4	377.4	376.2	375.0
27.5°	475.2	477.7	467.8	457.9	446.7	431.9	423.2	414.5	413.3	412.1	410.8
30°	517.3	522.2	512.3	502.4	487.6	472.7	461.6	457.9	454.1	456.6	456.6
32.5°	569.2	571.7	560.6	553.1	533.3	518.5	508.6	506.1	507.4	506.1	509.8
35°	629.9	626.2	617.5	602.6	585.3	571.7	564.3	569.2	582.8	587.8	585.3
37.5°	696.7	683.1	678.1	659.6	643.5	632.3	634.8	647.2	658.3	667.0	664.5
40°	746.2	748.7	735.1	717.7	702.9	700.4	714.0	730.1	751.1	758.6	761.0
42.5°	796.9	811.8	795.7	778.4	770.9	775.9	795.7	827.9	874.9	899.6	895.9
45°	855.1	871.2	853.8	840.2	839.0	857.6	900.9	985.0	1054.3	1103.8	1108.8
47.5°	915.7	928.1	912.0	903.3	915.7	951.6	1025.9	1138.5	1212.7	1270.9	1280.8
50°	992.4	987.5	975.1	973.9	1001.1	1066.7	1166.9	1280.8	1414.4	1452.8	1465.2
52.5°	1067.9	1049.4	1046.9	1053.1	1101.3	1175.6	1309.2	1533.2	1730.0	1868.6	1883.4
55°	1138.5	1117.4	1122.4	1138.5	1206.5	1319.1	1504.8	1778.2	1950.2	2048.0	2052.9
57.5°	1202.8	1190.4	1201.6	1223.8	1325.3	1470.1	1666.9	1892.1	2022.0	2091.3	2103.7
60°	1268.4	1265.9	1279.5	1320.4	1429.3	1558.0	1722.5	1921.8	2051.7	2104.9	2117.3
62.5°	1330.3	1338.9	1356.3	1395.9	1480.0	1580.2	1739.9	1983.6	2177.9	2262.1	2283.1
65°	1395.9	1403.3	1424.3	1430.5	1506.0	1612.4	1857.4	2100.0	2263.3	2372.2	2387.1
67.5°	1455.3	1465.2	1457.7	1452.8	1518.4	1612.4	1833.9	2046.8	2182.9	2265.8	2281.9
70°	1512.2	1501.0	1471.3	1433.0	1451.5	1515.9	1718.8	1903.2	2040.6	2118.5	2134.6
72.5°	1527.0	1512.2	1433.0	1345.1	1317.9	1366.2	1553.0	1716.4	1829.0	1902.0	1911.9
75°	1488.7	1457.7	1324.1	1202.8	1150.8	1199.1	1355.0	1494.9	1574.0	1653.2	1659.4
77.5°	1335.2	1315.4	1166.9	1019.7	961.5	997.4	1127.3	1226.3	1317.9	1394.6	1409.5
80°	1096.4	1079.1	947.9	827.9	749.9	774.7	869.9	949.1	1037.0	1097.6	1116.2
82.5°	806.8	804.3	710.3	597.7	543.2	540.8	612.5	690.5	757.3	815.5	827.9
85°	507.4	507.4	443.0	375.0	318.0	319.3	362.6	419.5	503.6	540.8	544.5
87.5°	172.0	163.3	152.2	123.7	99.0	89.1	95.3	108.9	165.8	205.4	212.8
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°	246.3
2.5°	250.0
5°	253.7
7.5°	257.4
10°	264.8
12.5°	276.0
15°	288.3
17.5°	305.7
20°	326.7
22.5°	350.2
25°	375.0
27.5°	412.1
30°	455.4
32.5°	508.6
35°	586.6
37.5°	667.0
40°	767.2
42.5°	905.8
45°	1096.4
47.5°	1280.8
50°	1451.5
52.5°	1852.5
55°	2057.9
57.5°	2102.4
60°	2113.6
62.5°	2272.0
65°	2384.6
67.5°	2280.6
70°	2130.9
72.5°	1904.5
75°	1669.3
77.5°	1409.5
80°	1101.3
82.5°	827.9
85°	535.8
87.5°	206.7
90°	0.0

(END OF REPORT)