

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: P400653

Luminaire Tested: **TT-D4-835-U-RW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400653
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-D4-835-U-RW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
3500K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5924 lumens
Efficiency: N/A
Efficacy: 102.8 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

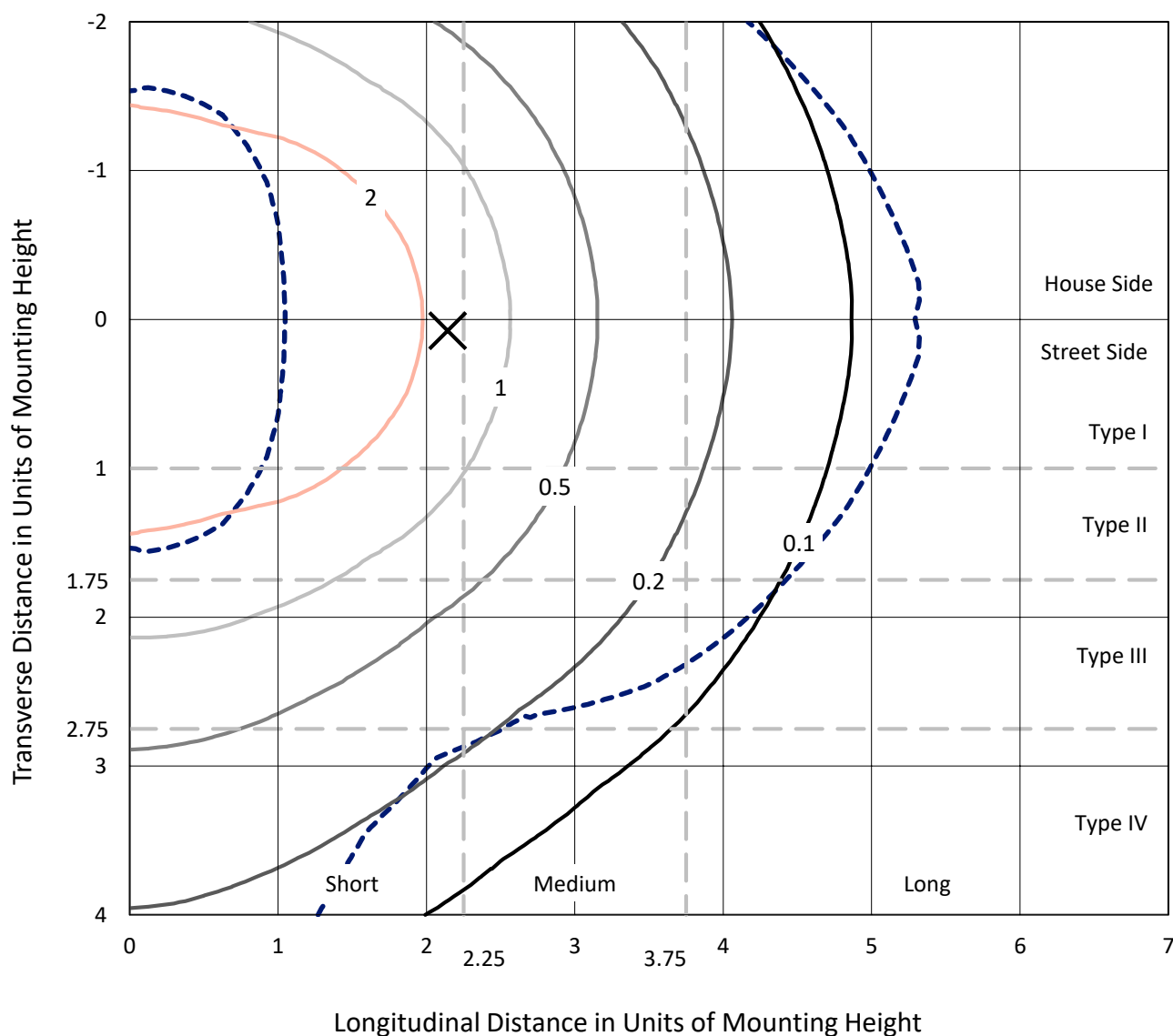


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

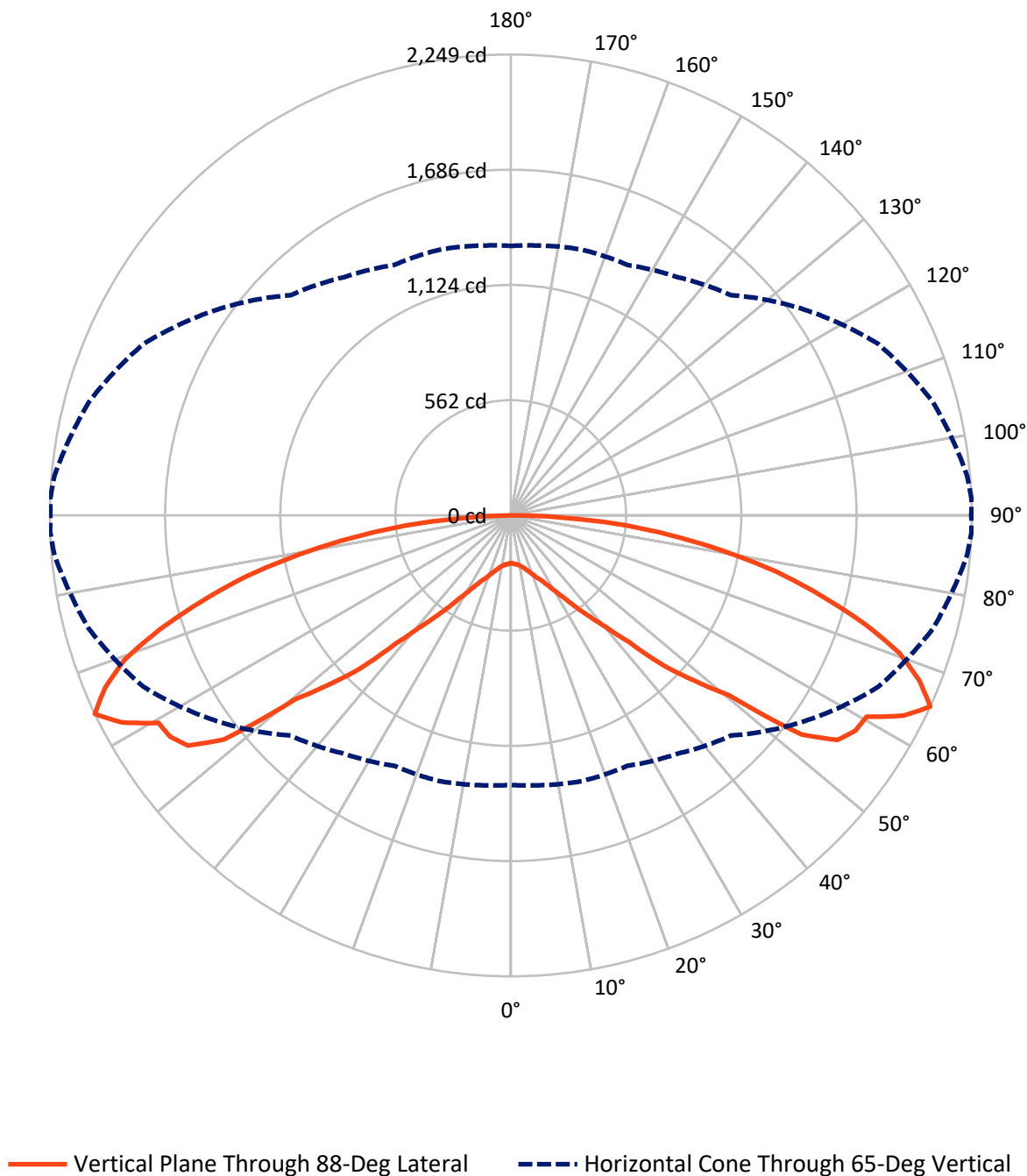


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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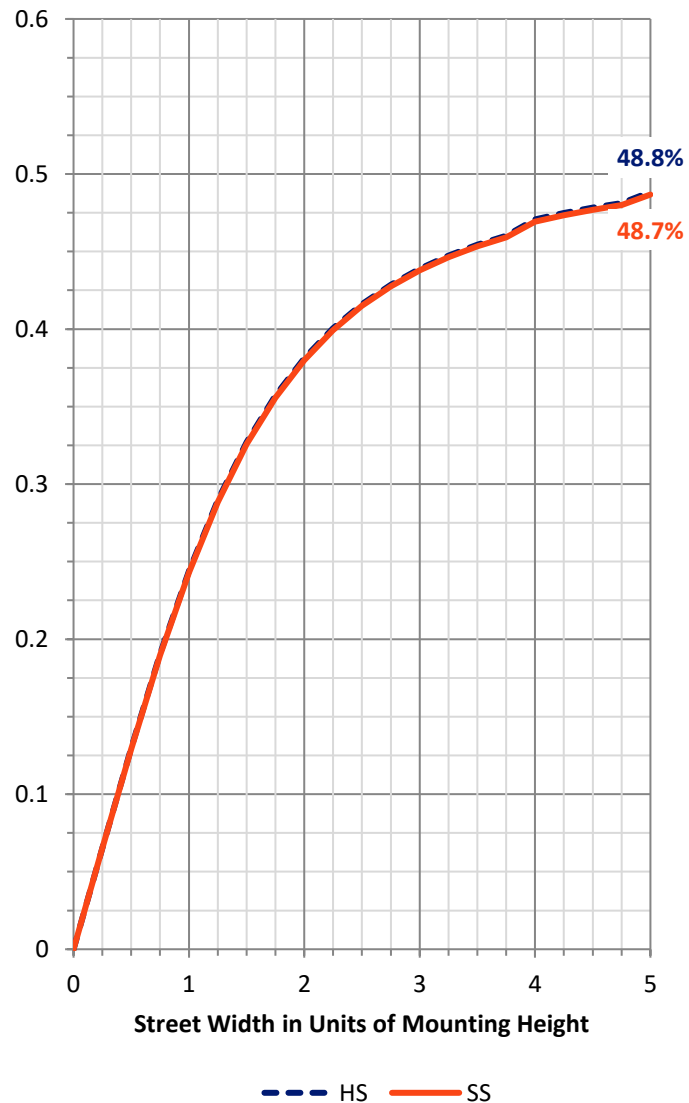
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2962.0	0.0	2962.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2962.0	0.0	2962.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5924.0	0.0	5924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.2	0.4
10°-20°	80.7	1.4
20°-30°	178.2	3.0
30°-40°	355.0	6.0
40°-50°	679.6	11.5
50°-60°	1216.4	20.5
60°-70°	1611.8	27.2
70°-80°	1345.1	22.7
80°-90°	434.0	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°	5924.0	100.0
0°-180°	5924.0	100.0

Coefficient of Utilization



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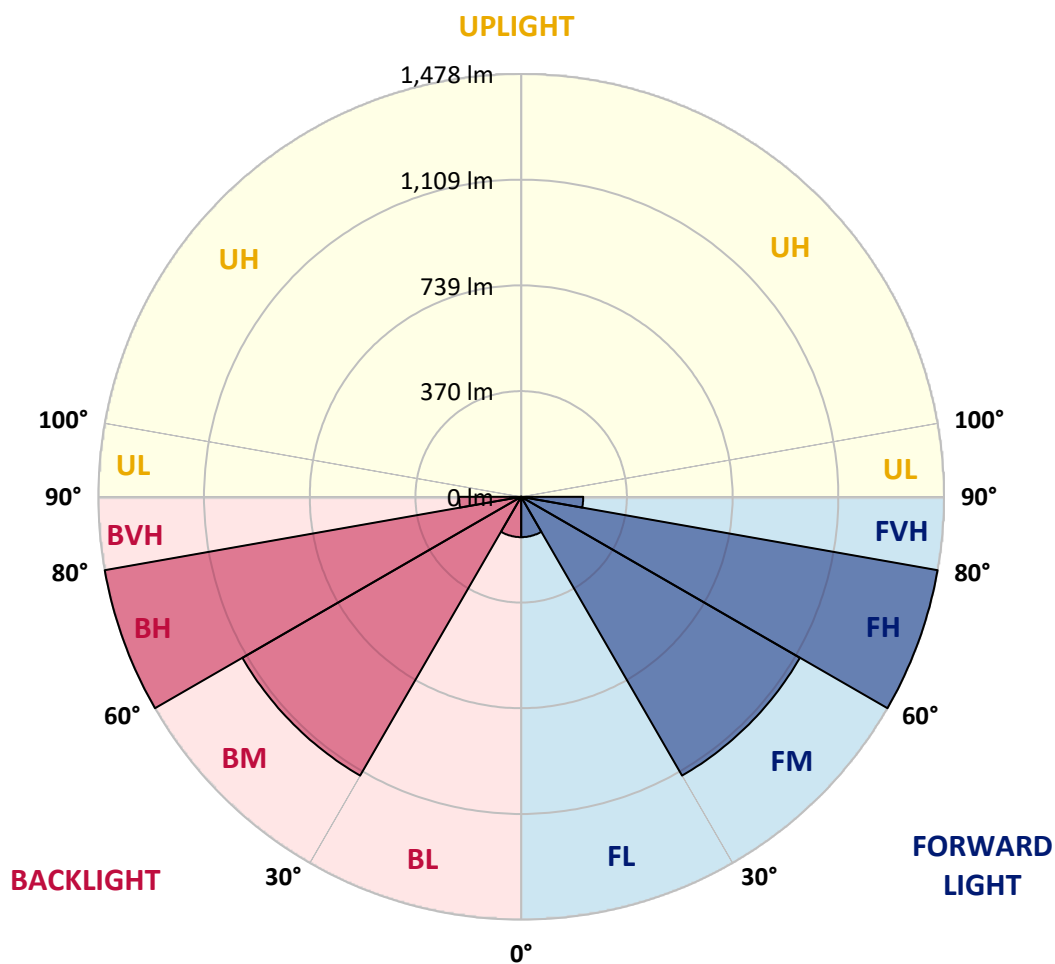
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	141.0	2.4			
FM	(30°-60°)	1125.5	19.0			
FH	(60°-80°)	1478.5	25.0			G1/1800
FVH	(80°-90°)	217.0	3.7			G2/225
BL	(0°-30°)	141.0	2.4	B1/500		
BM	(30°-60°)	1125.5	19.0	B2/2500		
BH	(60°-80°)	1478.5	25.0	B3/2500		G1/1800
BVH	(80°-90°)	217.0	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°	232.0	232.0	232.0	232.0	232.0	232.0	232.0	232.0	232.0	232.0	232.0
2.5°	234.3	234.3	234.3	234.3	235.5	235.5	235.5	235.5	235.5	235.5	235.5
5°	237.8	237.8	239.0	239.0	240.1	240.1	240.1	240.1	239.0	239.0	239.0
7.5°	243.6	244.8	246.0	246.0	246.0	244.8	243.6	243.6	242.5	242.5	242.5
10°	254.1	254.1	255.3	255.3	254.1	252.9	251.8	250.6	250.6	250.6	249.4
12.5°	266.9	266.9	268.1	266.9	264.6	263.4	261.1	259.9	259.9	258.8	258.8
15°	284.4	286.7	286.7	283.3	279.8	276.3	275.1	272.8	272.8	272.8	272.8
17.5°	311.2	310.1	305.4	301.9	299.6	293.7	291.4	290.2	287.9	287.9	287.9
20°	341.5	339.2	333.4	328.7	324.0	317.1	312.4	310.1	308.9	307.7	307.7
22.5°	375.3	371.8	363.7	360.2	350.9	343.9	338.0	333.4	329.9	328.7	331.0
25°	410.3	410.3	403.3	394.0	384.7	374.2	366.0	360.2	355.5	354.4	353.2
27.5°	447.6	449.9	440.6	431.3	420.8	406.8	398.6	390.5	389.3	388.2	387.0
30°	487.2	491.9	482.6	473.3	459.3	445.3	434.8	431.3	427.8	430.1	430.1
32.5°	536.2	538.5	528.0	521.0	502.4	488.4	479.1	476.7	477.9	476.7	480.2
35°	593.3	589.8	581.7	567.7	551.3	538.5	531.5	536.2	549.0	553.7	551.3
37.5°	656.3	643.4	638.8	621.3	606.1	595.6	598.0	609.6	620.1	628.3	625.9
40°	702.9	705.2	692.4	676.1	662.1	659.8	672.6	687.7	707.5	714.5	716.9
42.5°	750.7	764.7	749.5	733.2	726.2	730.9	749.5	779.8	824.1	847.4	843.9
45°	805.5	820.6	804.3	791.5	790.3	807.8	848.6	927.8	993.1	1039.8	1044.4
47.5°	862.6	874.2	859.1	850.9	862.6	896.4	966.3	1072.4	1142.3	1197.1	1206.4
50°	934.8	930.2	918.5	917.4	943.0	1004.8	1099.2	1206.4	1332.3	1368.5	1380.1
52.5°	1005.9	988.5	986.1	992.0	1037.4	1107.4	1233.2	1444.2	1629.6	1760.1	1774.1
55°	1072.4	1052.6	1057.2	1072.4	1136.5	1242.6	1417.4	1675.0	1837.0	1929.1	1933.8
57.5°	1133.0	1121.3	1131.8	1152.8	1248.4	1384.8	1570.1	1782.3	1904.7	1969.9	1981.6
60°	1194.8	1192.5	1205.3	1243.7	1346.3	1467.5	1622.6	1810.2	1932.6	1982.8	1994.4
62.5°	1253.1	1261.2	1277.5	1314.8	1394.1	1488.5	1638.9	1868.5	2051.5	2130.8	2150.6
65°	1314.8	1321.8	1341.7	1347.5	1418.6	1518.8	1749.6	1978.1	2132.0	2234.5	2248.5
67.5°	1370.8	1380.1	1373.1	1368.5	1430.2	1518.8	1727.5	1928.0	2056.2	2134.3	2149.4
70°	1424.4	1413.9	1385.9	1349.8	1367.3	1427.9	1619.1	1792.8	1922.1	1995.6	2010.7
72.5°	1438.4	1424.4	1349.8	1267.1	1241.4	1286.9	1462.9	1616.7	1722.8	1791.6	1800.9
75°	1402.3	1373.1	1247.2	1133.0	1084.0	1129.5	1276.4	1408.1	1482.7	1557.3	1563.1
77.5°	1257.7	1239.1	1099.2	960.5	905.7	939.5	1061.9	1155.1	1241.4	1313.7	1327.7
80°	1032.8	1016.4	892.9	779.8	706.4	729.7	819.4	894.0	976.8	1033.9	1051.4
82.5°	760.0	757.7	669.1	563.0	511.7	509.4	577.0	650.4	713.4	768.2	779.8
85°	477.9	477.9	417.3	353.2	299.6	300.7	341.5	395.2	474.4	509.4	512.9
87.5°	162.0	153.9	143.4	116.6	93.3	83.9	89.8	102.6	156.2	193.5	200.5
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°	232.0
2.5°	235.5
5°	239.0
7.5°	242.5
10°	249.4
12.5°	259.9
15°	271.6
17.5°	287.9
20°	307.7
22.5°	329.9
25°	353.2
27.5°	388.2
30°	429.0
32.5°	479.1
35°	552.5
37.5°	628.3
40°	722.7
42.5°	853.2
45°	1032.8
47.5°	1206.4
50°	1367.3
52.5°	1745.0
55°	1938.5
57.5°	1980.4
60°	1990.9
62.5°	2140.1
65°	2246.2
67.5°	2148.3
70°	2007.2
72.5°	1793.9
75°	1572.4
77.5°	1327.7
80°	1037.4
82.5°	779.8
85°	504.7
87.5°	194.7
90°	0.0

(END OF REPORT)