

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: P400670

Luminaire Tested: **TT-D5-835-U-RW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400670
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-D5-835-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: 7457 lumens
Efficiency: N/A
Efficacy: 99.8 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



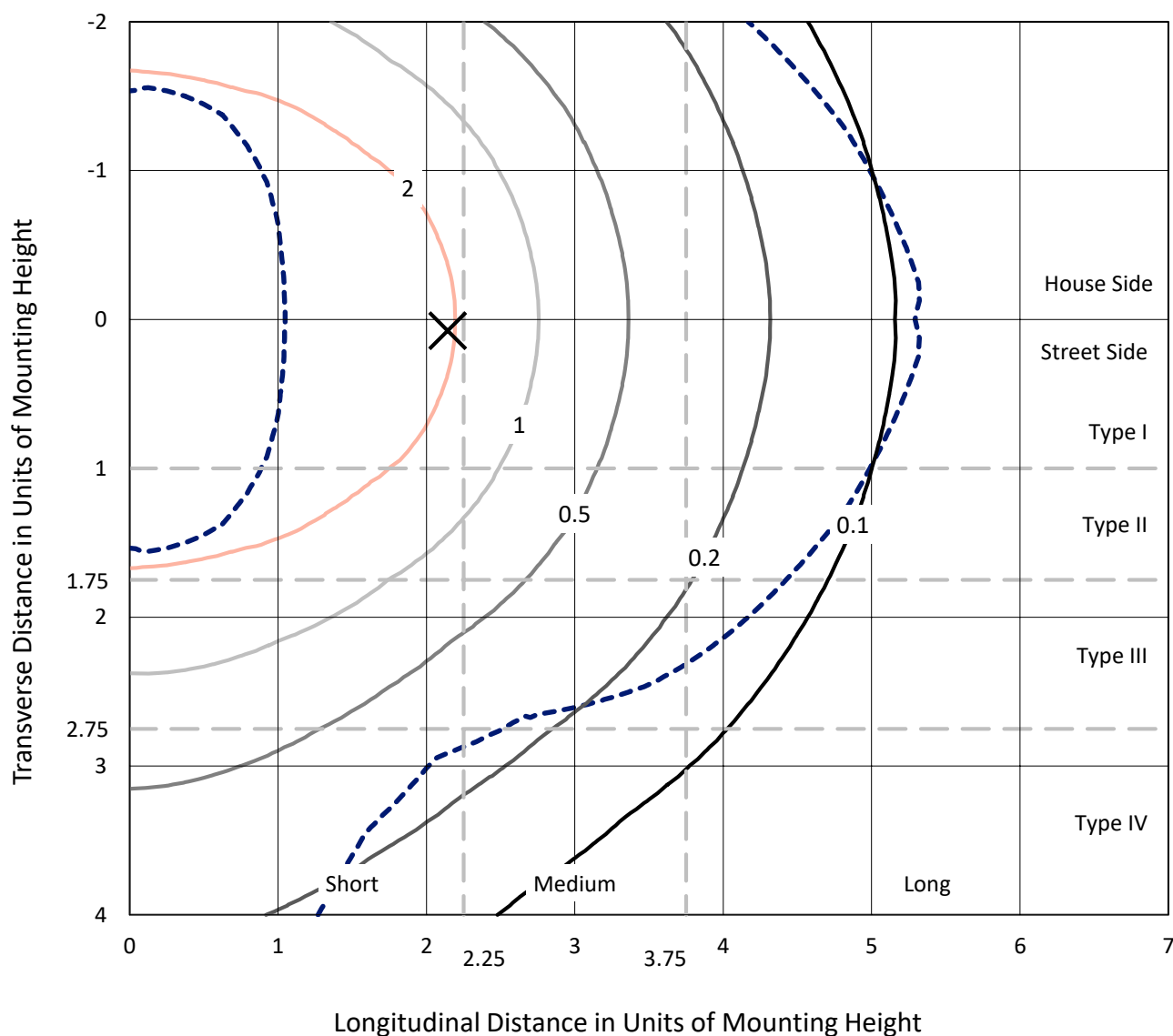
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

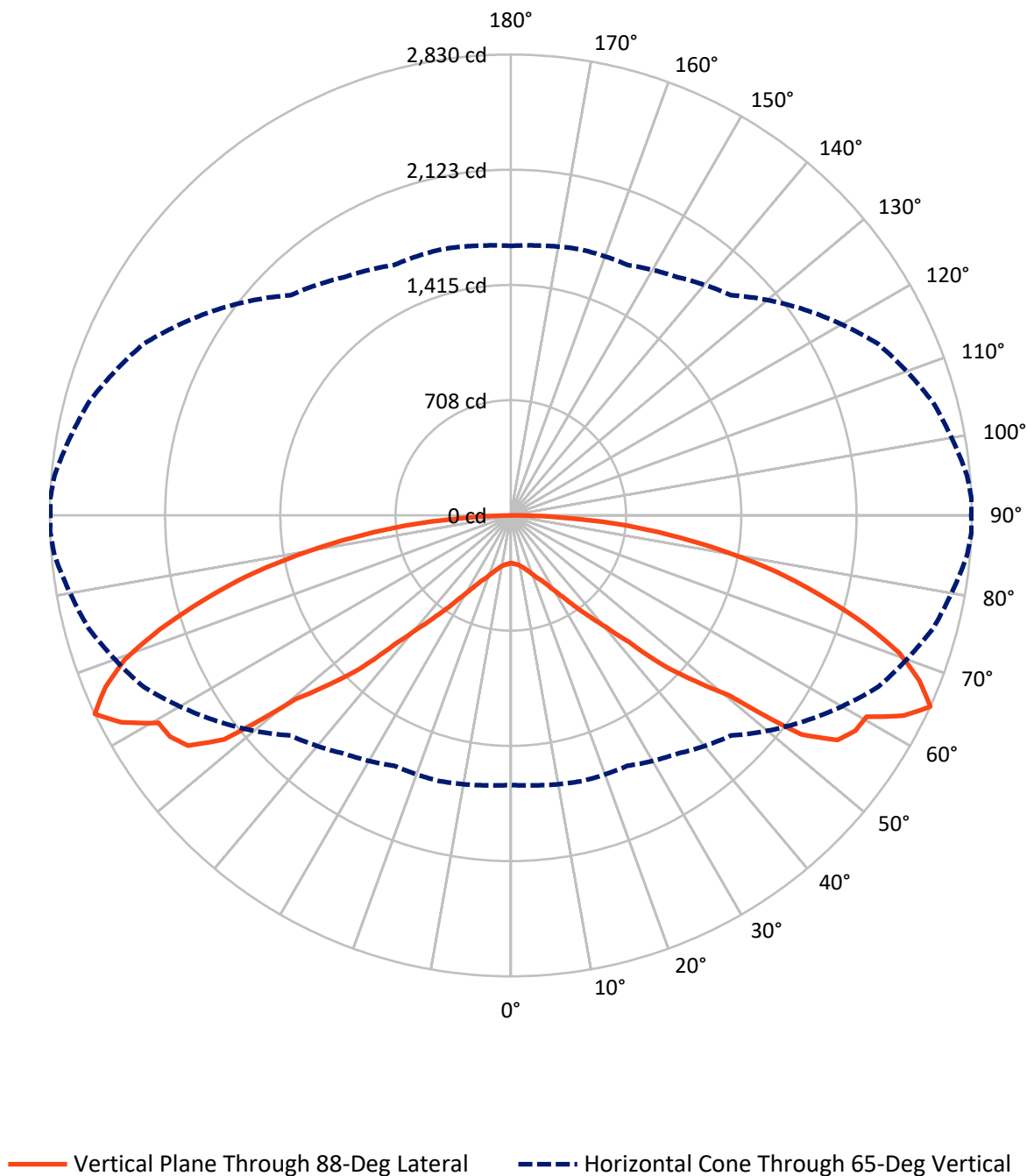


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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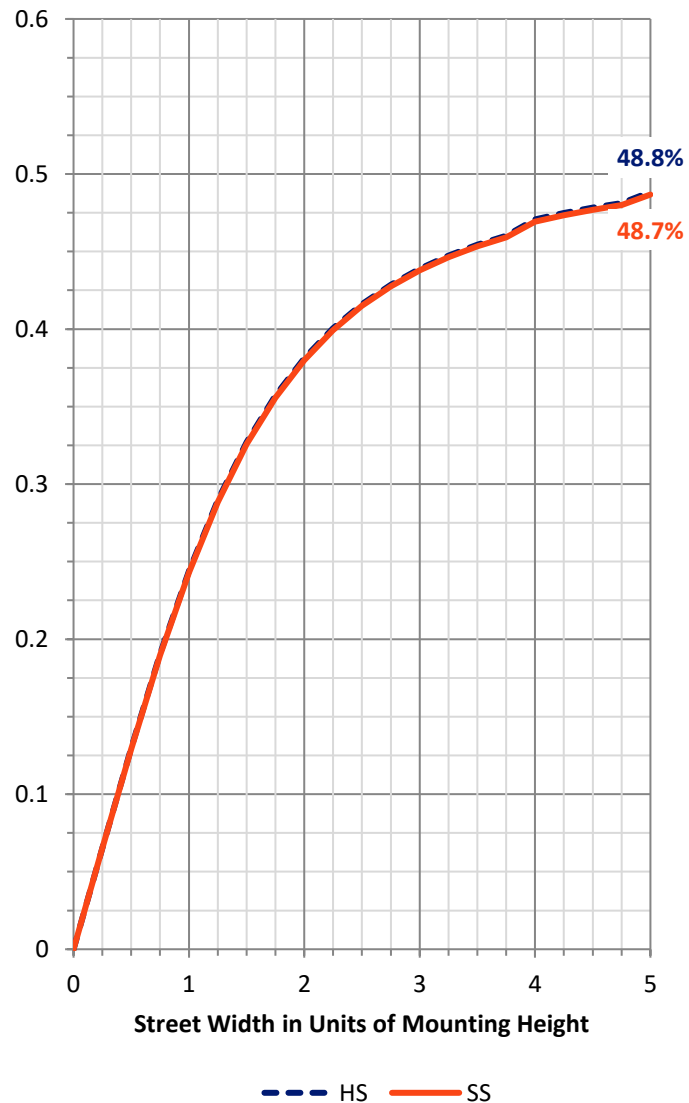
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3728.5	0.0	3728.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3728.5	0.0	3728.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7457.0	0.0	7457.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.2	0.4
10°-20°	101.5	1.4
20°-30°	224.3	3.0
30°-40°	446.9	6.0
40°-50°	855.4	11.5
50°-60°	1531.1	20.5
60°-70°	2029.0	27.2
70°-80°	1693.2	22.7
80°-90°	546.3	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°	7457.0	100.0
0°-180°	7457.0	100.0

Coefficient of Utilization



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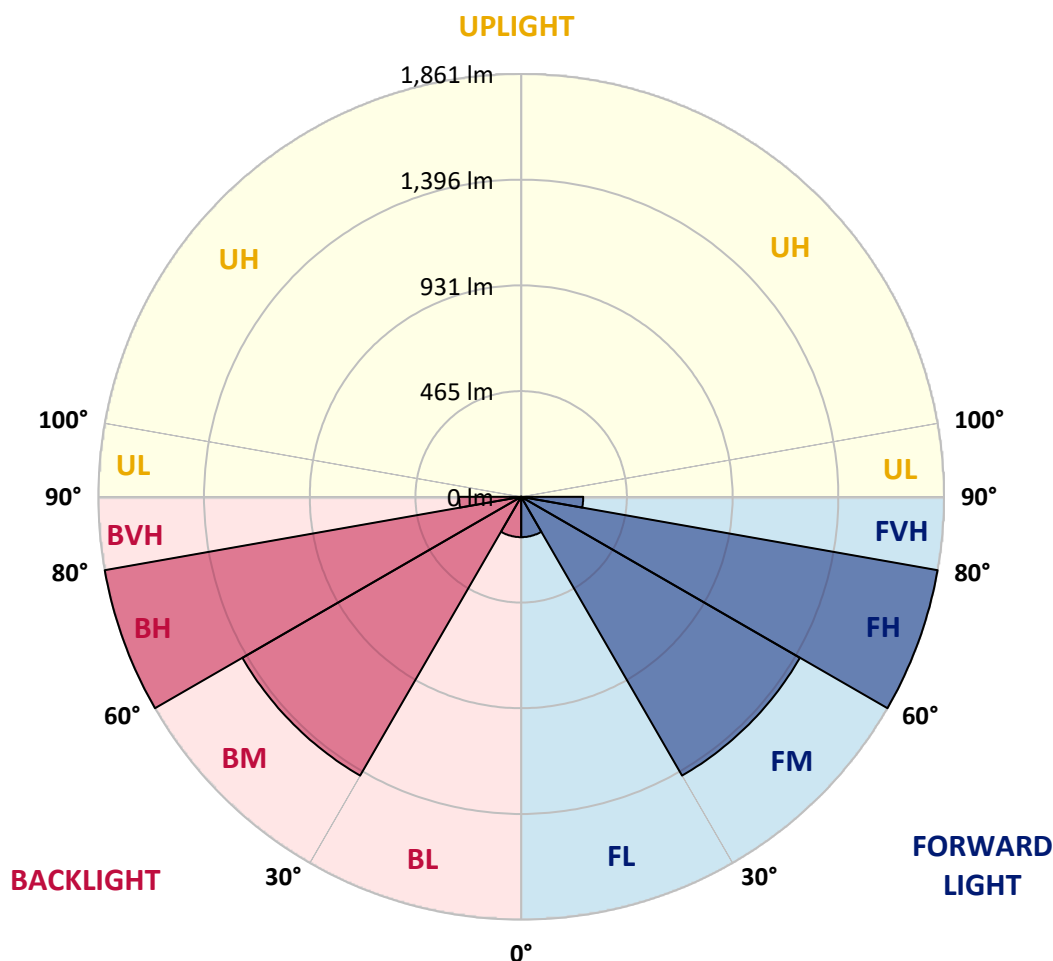
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	177.5	2.4			
FM	(30°-60°)	1416.7	19.0			
FH	(60°-80°)	1861.1	25.0			G2/5000
FVH	(80°-90°)	273.1	3.7			G3/500
BL	(0°-30°)	177.5	2.4	B1/500		
BM	(30°-60°)	1416.7	19.0	B2/2500		
BH	(60°-80°)	1861.1	25.0	B3/2500		G2/5000
BVH	(80°-90°)	273.1	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°	292.0	292.0	292.0	292.0	292.0	292.0	292.0	292.0	292.0	292.0	292.0
2.5°	294.9	294.9	294.9	294.9	296.4	296.4	296.4	296.4	296.4	296.4	296.4
5°	299.3	299.3	300.8	300.8	302.3	302.3	302.3	302.3	300.8	300.8	300.8
7.5°	306.7	308.1	309.6	309.6	309.6	308.1	306.7	306.7	305.2	305.2	305.2
10°	319.9	319.9	321.3	321.3	319.9	318.4	316.9	315.5	315.5	315.5	314.0
12.5°	336.0	336.0	337.5	336.0	333.1	331.6	328.7	327.2	327.2	325.7	325.7
15°	358.0	361.0	361.0	356.5	352.1	347.7	346.3	343.3	343.3	343.3	343.3
17.5°	391.8	390.3	384.4	380.0	377.1	369.8	366.8	365.4	362.4	362.4	362.4
20°	429.9	427.0	419.6	413.8	407.9	399.1	393.2	390.3	388.8	387.4	387.4
22.5°	472.5	468.1	457.8	453.4	441.7	432.8	425.5	419.6	415.2	413.8	416.7
25°	516.5	516.5	507.7	495.9	484.2	471.0	460.7	453.4	447.5	446.1	444.6
27.5°	563.4	566.4	554.6	542.9	529.7	512.1	501.8	491.5	490.1	488.6	487.1
30°	613.3	619.2	607.5	595.7	578.1	560.5	547.3	542.9	538.5	541.4	541.4
32.5°	675.0	677.9	664.7	655.9	632.4	614.8	603.1	600.1	601.6	600.1	604.5
35°	746.8	742.4	732.2	714.6	694.0	677.9	669.1	675.0	691.1	697.0	694.0
37.5°	826.1	809.9	804.1	782.1	763.0	749.8	752.7	767.4	780.6	790.9	787.9
40°	884.8	887.7	871.6	851.0	833.4	830.5	846.6	865.7	890.6	899.4	902.4
42.5°	944.9	962.5	943.5	922.9	914.1	920.0	943.5	981.6	1037.4	1066.7	1062.3
45°	1013.9	1033.0	1012.4	996.3	994.8	1016.8	1068.2	1168.0	1250.1	1308.8	1314.7
47.5°	1085.8	1100.5	1081.4	1071.1	1085.8	1128.3	1216.4	1349.9	1437.9	1506.9	1518.6
50°	1176.8	1170.9	1156.2	1154.8	1187.0	1264.8	1383.6	1518.6	1677.1	1722.6	1737.3
52.5°	1266.3	1244.3	1241.3	1248.7	1305.9	1393.9	1552.4	1818.0	2051.3	2215.6	2233.2
55°	1349.9	1325.0	1330.8	1349.9	1430.6	1564.1	1784.2	2108.5	2312.4	2428.4	2434.2
57.5°	1426.2	1411.5	1424.7	1451.1	1571.5	1743.1	1976.4	2243.5	2397.5	2479.7	2494.4
60°	1504.0	1501.0	1517.2	1565.6	1694.7	1847.3	2042.5	2278.7	2432.8	2495.8	2510.5
62.5°	1577.3	1587.6	1608.1	1655.1	1754.9	1873.7	2063.0	2352.1	2582.4	2682.2	2707.1
65°	1655.1	1663.9	1688.8	1696.2	1785.7	1911.9	2202.4	2490.0	2683.7	2812.8	2830.4
67.5°	1725.5	1737.3	1728.5	1722.6	1800.4	1911.9	2174.5	2426.9	2588.3	2686.6	2705.7
70°	1793.0	1779.8	1744.6	1699.1	1721.1	1797.4	2038.1	2256.7	2419.5	2512.0	2531.1
72.5°	1810.6	1793.0	1699.1	1594.9	1562.7	1619.9	1841.4	2035.1	2168.6	2255.2	2267.0
75°	1765.1	1728.5	1570.0	1426.2	1364.6	1421.8	1606.7	1772.5	1866.4	1960.3	1967.6
77.5°	1583.2	1559.7	1383.6	1209.0	1140.1	1182.6	1336.7	1454.1	1562.7	1653.6	1671.2
80°	1300.0	1279.5	1123.9	981.6	889.2	918.5	1031.5	1125.4	1229.6	1301.5	1323.5
82.5°	956.7	953.7	842.2	708.7	644.1	641.2	726.3	818.7	898.0	966.9	981.6
85°	601.6	601.6	525.3	444.6	377.1	378.6	429.9	497.4	597.2	641.2	645.6
87.5°	204.0	193.7	180.5	146.7	117.4	105.6	113.0	129.1	196.6	243.6	252.4
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°	292.0
2.5°	296.4
5°	300.8
7.5°	305.2
10°	314.0
12.5°	327.2
15°	341.9
17.5°	362.4
20°	387.4
22.5°	415.2
25°	444.6
27.5°	488.6
30°	540.0
32.5°	603.1
35°	695.5
37.5°	790.9
40°	909.7
42.5°	1074.1
45°	1300.0
47.5°	1518.6
50°	1721.1
52.5°	2196.5
55°	2440.1
57.5°	2492.9
60°	2506.1
62.5°	2693.9
65°	2827.5
67.5°	2704.2
70°	2526.7
72.5°	2258.1
75°	1979.4
77.5°	1671.2
80°	1305.9
82.5°	981.6
85°	635.3
87.5°	245.0
90°	0.0

(END OF REPORT)