

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: P400638

Luminaire Tested: **TT-D3-840-U-RW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400638
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-D3-840-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: 5283 lumens
Efficiency: N/A
Efficacy: 111.9 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): 47.2
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

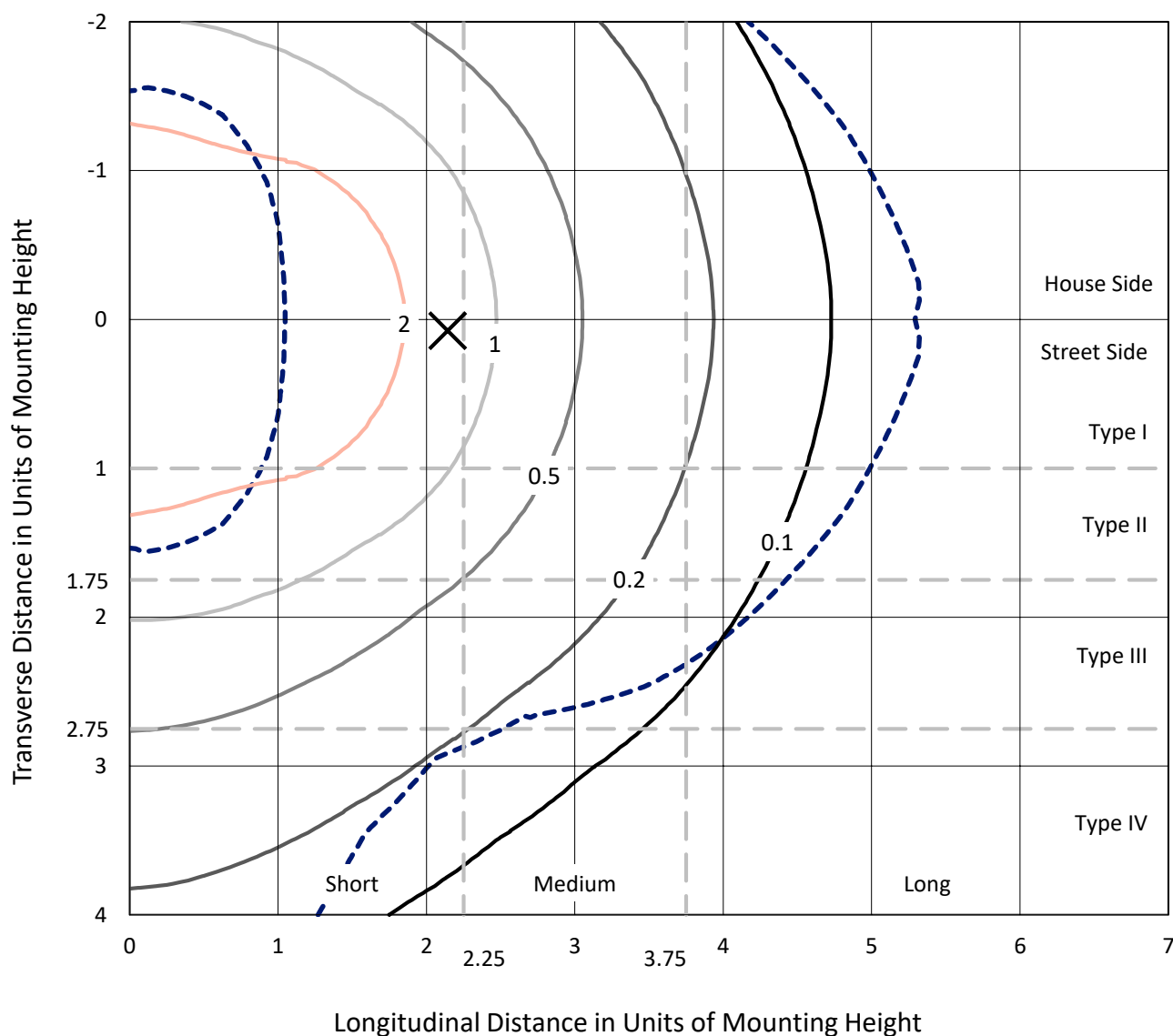


REPORT NUMBER: P400638

CATALOG NUMBER: TT-D3-840-U-RW

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

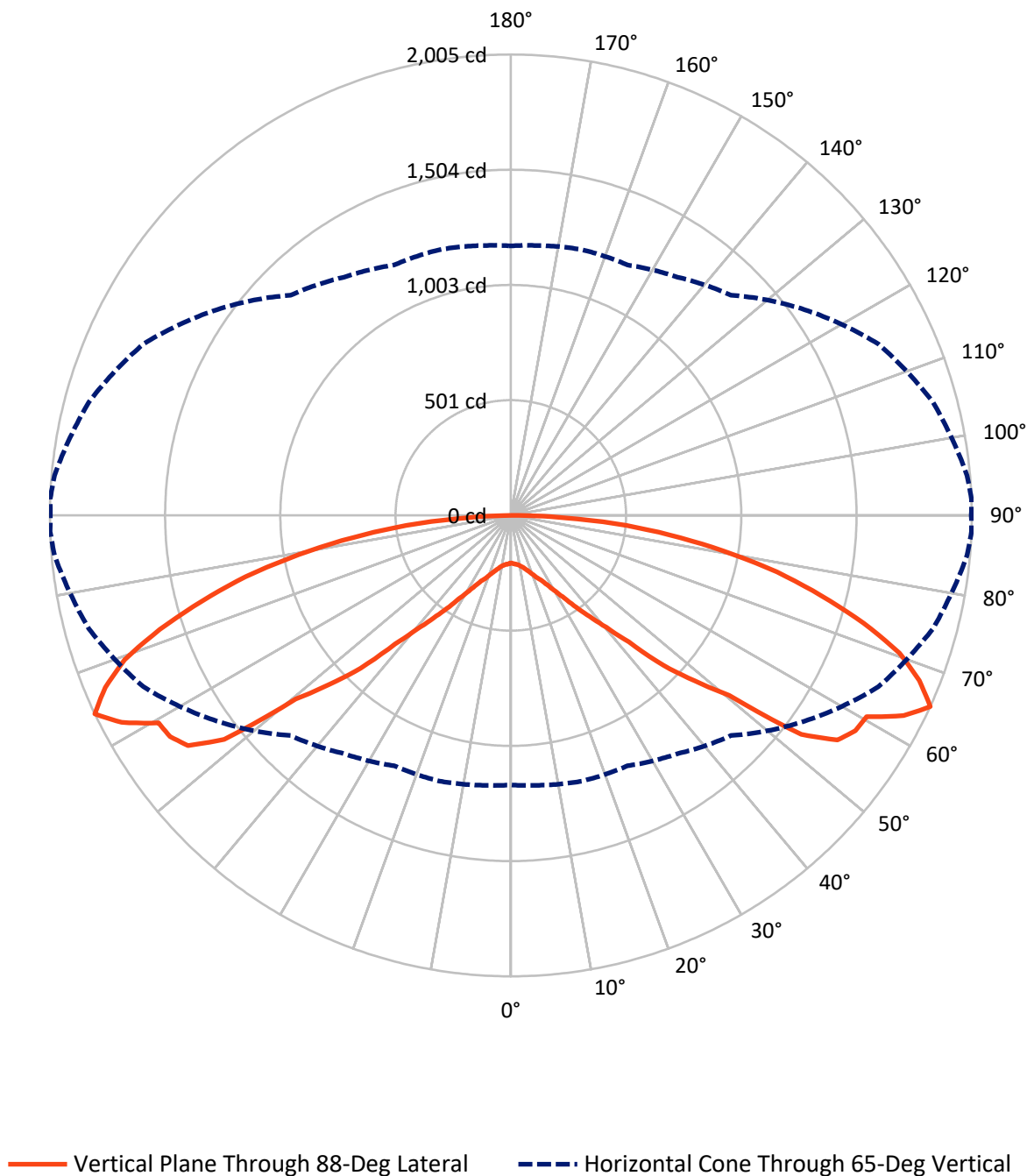


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P400638

CATALOG NUMBER: TT-D3-840-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P400638

CATALOG NUMBER: TT-D3-840-U-RW

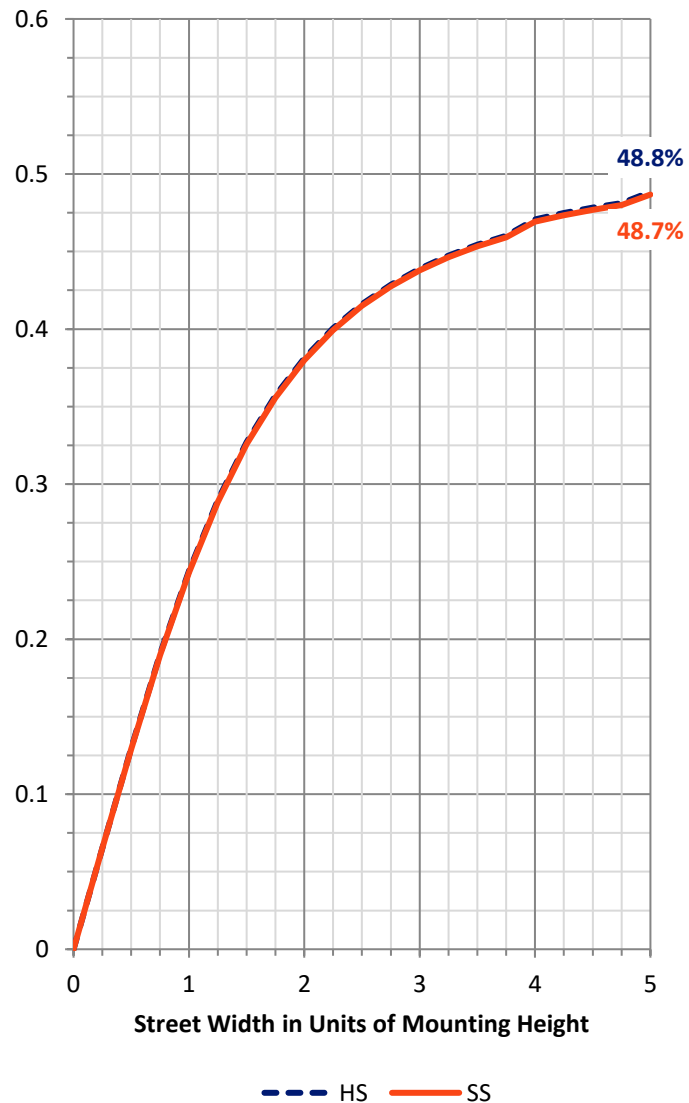
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2641.5	0.0	2641.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2641.5	0.0	2641.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5283.0	0.0	5283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.7	0.4
10°-20°	71.9	1.4
20°-30°	158.9	3.0
30°-40°	316.6	6.0
40°-50°	606.1	11.5
50°-60°	1084.8	20.5
60°-70°	1437.4	27.2
70°-80°	1199.6	22.7
80°-90°	387.0	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°	5283.0	100.0
0°-180°	5283.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400638

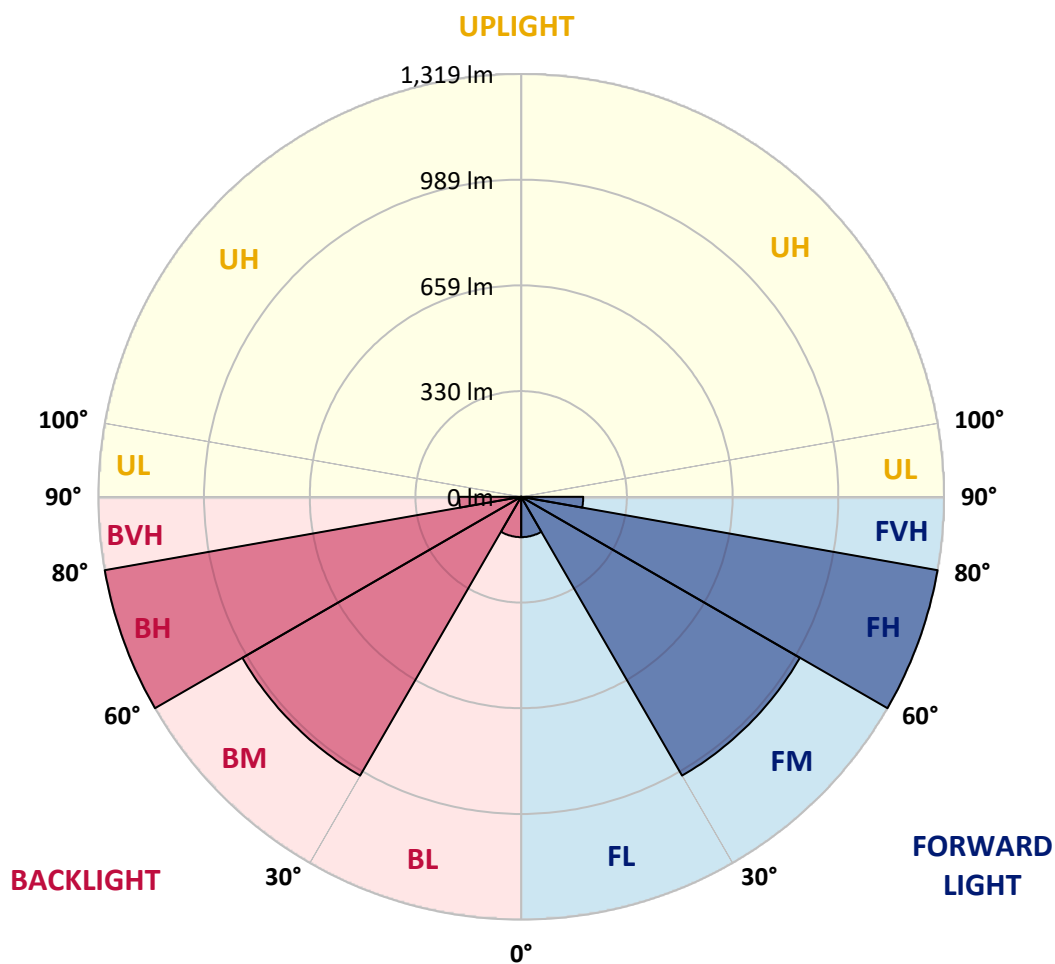
CATALOG NUMBER: TT-D3-840-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	125.8	2.4			
FM	(30°-60°)	1003.7	19.0			
FH	(60°-80°)	1318.5	25.0			G1/1800
FVH	(80°-90°)	193.5	3.7			G2/225
BL	(0°-30°)	125.8	2.4	B1/500		
BM	(30°-60°)	1003.7	19.0	B2/2500		
BH	(60°-80°)	1318.5	25.0	B3/2500		G1/1800
BVH	(80°-90°)	193.5	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





REPORT NUMBER: P400638

CATALOG NUMBER: TT-D3-840-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
0°	206.9	206.9	206.9	206.9	206.9	206.9	206.9	206.9	206.9	206.9	206.9
2.5°	208.9	208.9	208.9	208.9	210.0	210.0	210.0	210.0	210.0	210.0	210.0
5°	212.1	212.1	213.1	213.1	214.1	214.1	214.1	214.1	213.1	213.1	213.1
7.5°	217.3	218.3	219.3	219.3	219.3	218.3	217.3	217.3	216.2	216.2	216.2
10°	226.6	226.6	227.7	227.7	226.6	225.6	224.5	223.5	223.5	223.5	222.5
12.5°	238.0	238.0	239.1	238.0	236.0	234.9	232.9	231.8	231.8	230.8	230.8
15°	253.6	255.7	255.7	252.6	249.5	246.4	245.3	243.2	243.2	243.2	243.2
17.5°	277.6	276.5	272.4	269.2	267.2	262.0	259.9	258.8	256.8	256.8	256.8
20°	304.6	302.5	297.3	293.1	289.0	282.7	278.6	276.5	275.5	274.4	274.4
22.5°	334.7	331.6	324.3	321.2	312.9	306.7	301.5	297.3	294.2	293.1	295.2
25°	365.9	365.9	359.7	351.4	343.0	333.7	326.4	321.2	317.1	316.0	315.0
27.5°	399.2	401.3	392.9	384.6	375.3	362.8	355.5	348.2	347.2	346.2	345.1
30°	434.5	438.7	430.4	422.0	409.6	397.1	387.7	384.6	381.5	383.6	383.6
32.5°	478.2	480.3	470.9	464.7	448.0	435.6	427.2	425.2	426.2	425.2	428.3
35°	529.1	526.0	518.7	506.2	491.7	480.3	474.0	478.2	489.6	493.8	491.7
37.5°	585.2	573.8	569.7	554.1	540.5	531.2	533.3	543.7	553.0	560.3	558.2
40°	626.8	628.9	617.5	602.9	590.4	588.4	599.8	613.3	631.0	637.2	639.3
42.5°	669.4	681.9	668.4	653.9	647.6	651.8	668.4	695.4	734.9	755.7	752.6
45°	718.3	731.8	717.3	705.8	704.8	720.4	756.8	827.5	885.7	927.2	931.4
47.5°	769.2	779.6	766.1	758.8	769.2	799.4	861.8	956.4	1018.7	1067.6	1075.9
50°	833.7	829.5	819.1	818.1	841.0	896.1	980.3	1075.9	1188.2	1220.4	1230.8
52.5°	897.1	881.5	879.4	884.6	925.2	987.5	1099.8	1288.0	1453.2	1569.7	1582.1
55°	956.4	938.7	942.8	956.4	1013.5	1108.1	1264.0	1493.8	1638.3	1720.4	1724.6
57.5°	1010.4	1000.0	1009.4	1028.1	1113.3	1234.9	1400.2	1589.4	1698.6	1756.8	1767.2
60°	1065.5	1063.4	1074.9	1109.2	1200.6	1308.7	1447.0	1614.4	1723.5	1768.2	1778.6
62.5°	1117.5	1124.8	1139.3	1172.6	1243.3	1327.5	1461.6	1666.3	1829.5	1900.2	1917.9
65°	1172.6	1178.8	1196.5	1201.7	1265.1	1354.5	1560.3	1764.1	1901.3	1992.7	2005.2
67.5°	1222.5	1230.8	1224.5	1220.4	1275.5	1354.5	1540.6	1719.4	1833.7	1903.3	1916.9
70°	1270.3	1260.9	1236.0	1203.8	1219.3	1273.4	1443.9	1598.8	1714.2	1779.6	1793.2
72.5°	1282.8	1270.3	1203.8	1130.0	1107.1	1147.6	1304.6	1441.8	1536.4	1597.7	1606.0
75°	1250.5	1224.5	1112.3	1010.4	966.7	1007.3	1138.3	1255.7	1322.3	1388.8	1394.0
77.5°	1121.6	1105.0	980.3	856.6	807.7	837.8	947.0	1030.2	1107.1	1171.5	1184.0
80°	921.0	906.5	796.3	695.4	629.9	650.7	730.8	797.3	871.1	922.0	937.6
82.5°	677.8	675.7	596.7	502.1	456.3	454.3	514.6	580.0	636.2	685.0	695.4
85°	426.2	426.2	372.1	315.0	267.2	268.2	304.6	352.4	423.1	454.3	457.4
87.5°	144.5	137.2	127.9	104.0	83.2	74.8	80.0	91.5	139.3	172.6	178.8
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: P400638

CATALOG NUMBER: TT-D3-840-U-RW

CANDELA DISTRIBUTION (continued):

	90°
0°	206.9
2.5°	210.0
5°	213.1
7.5°	216.2
10°	222.5
12.5°	231.8
15°	242.2
17.5°	256.8
20°	274.4
22.5°	294.2
25°	315.0
27.5°	346.2
30°	382.5
32.5°	427.2
35°	492.7
37.5°	560.3
40°	644.5
42.5°	760.9
45°	921.0
47.5°	1075.9
50°	1219.3
52.5°	1556.2
55°	1728.7
57.5°	1766.1
60°	1775.5
62.5°	1908.5
65°	2003.1
67.5°	1915.8
70°	1790.0
72.5°	1599.8
75°	1402.3
77.5°	1184.0
80°	925.2
82.5°	695.4
85°	450.1
87.5°	173.6
90°	0.0

(END OF REPORT)