

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: P197786

Luminaire Tested: **TT-C4-LED-E1-WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34714)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-WQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6848.2 lumens
Efficiency: N/A
Efficacy: 118.1 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): 58
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: 25 FT



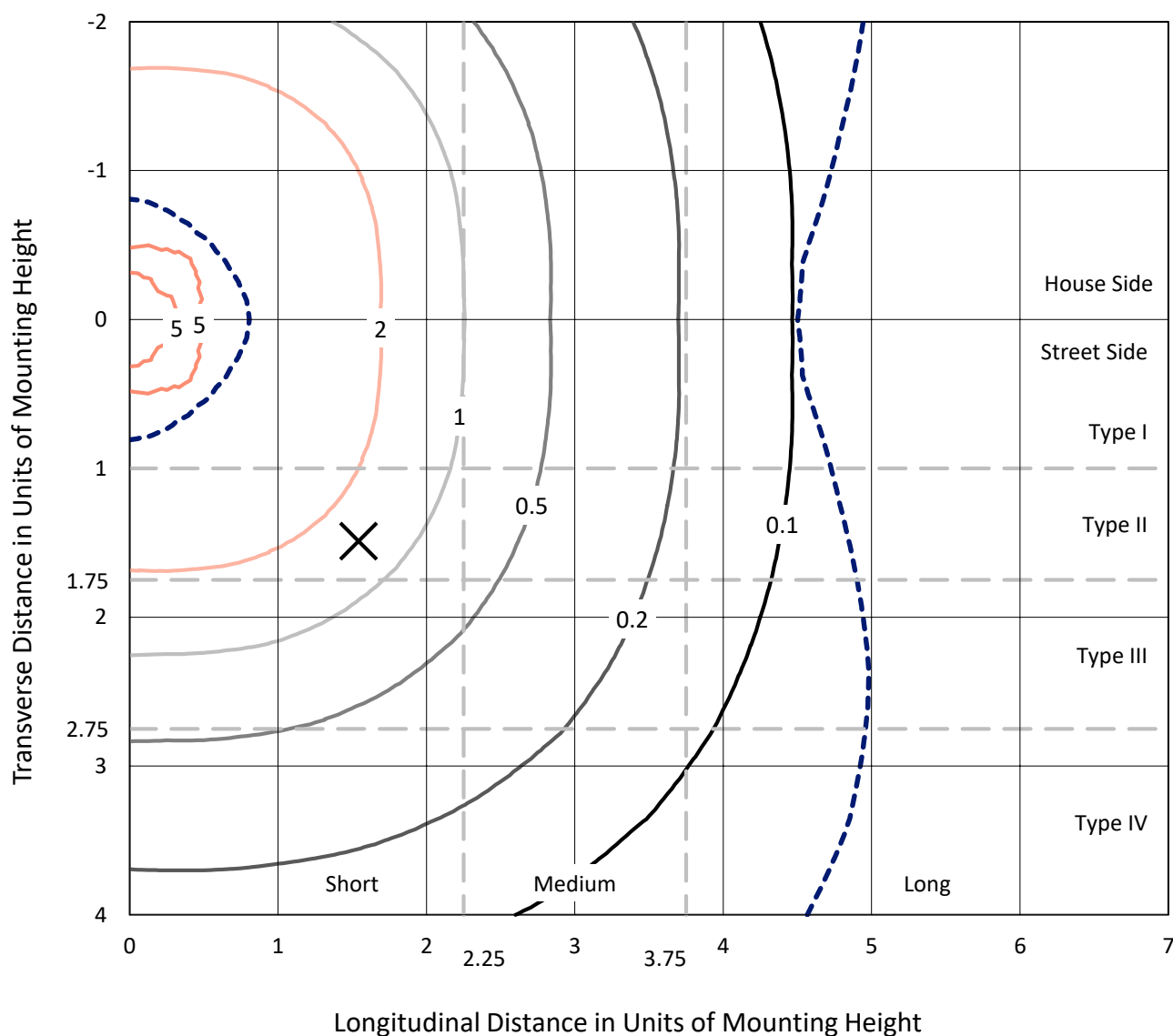
REPORT NUMBER: P197786

CATALOG NUMBER: TT-C4-LED-E1-WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

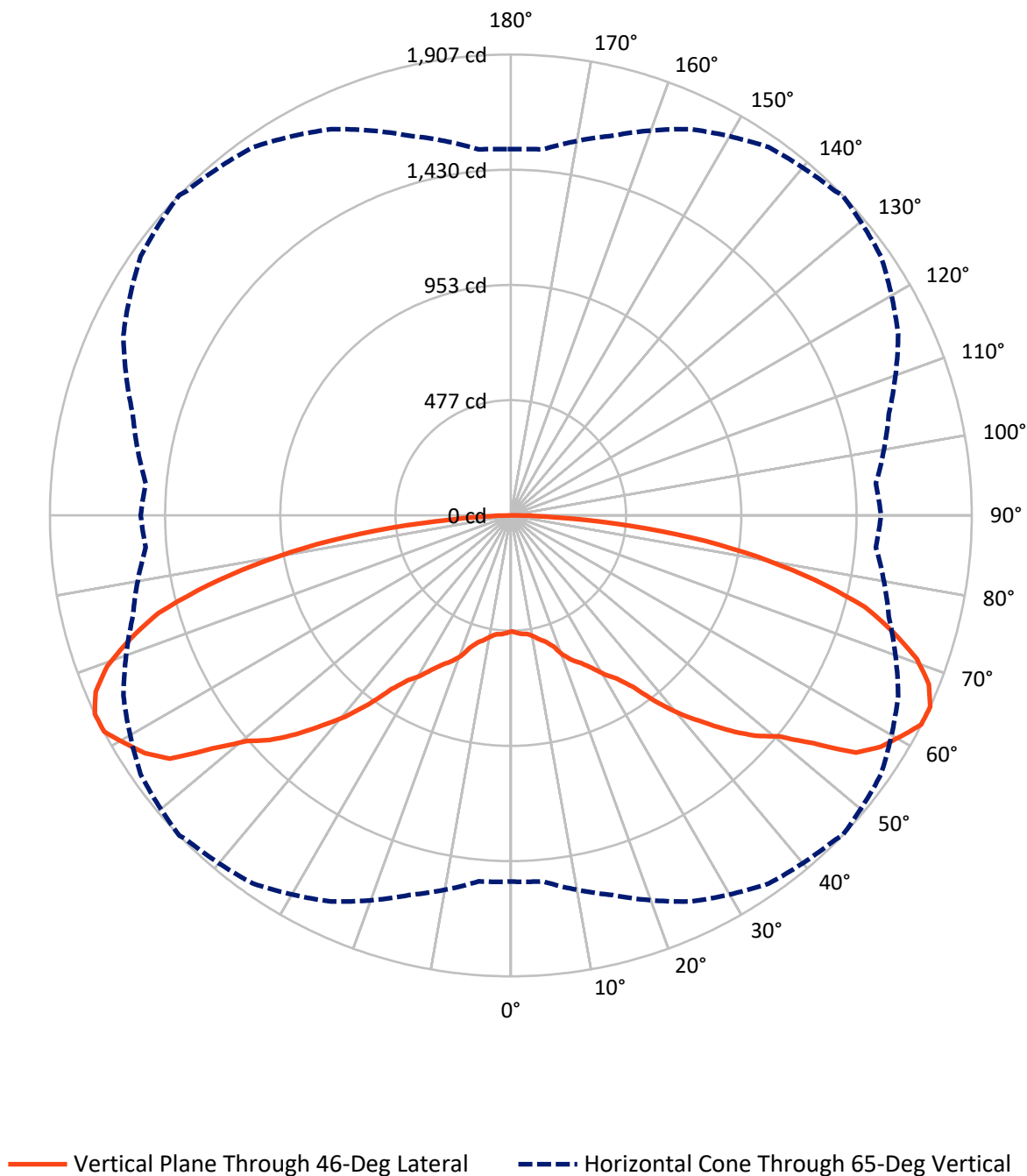


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
Type V - Short - Semi-Cutoff

REPORT NUMBER: P197786

CATALOG NUMBER: TT-C4-LED-E1-WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P197786

CATALOG NUMBER: TT-C4-LED-E1-WQ

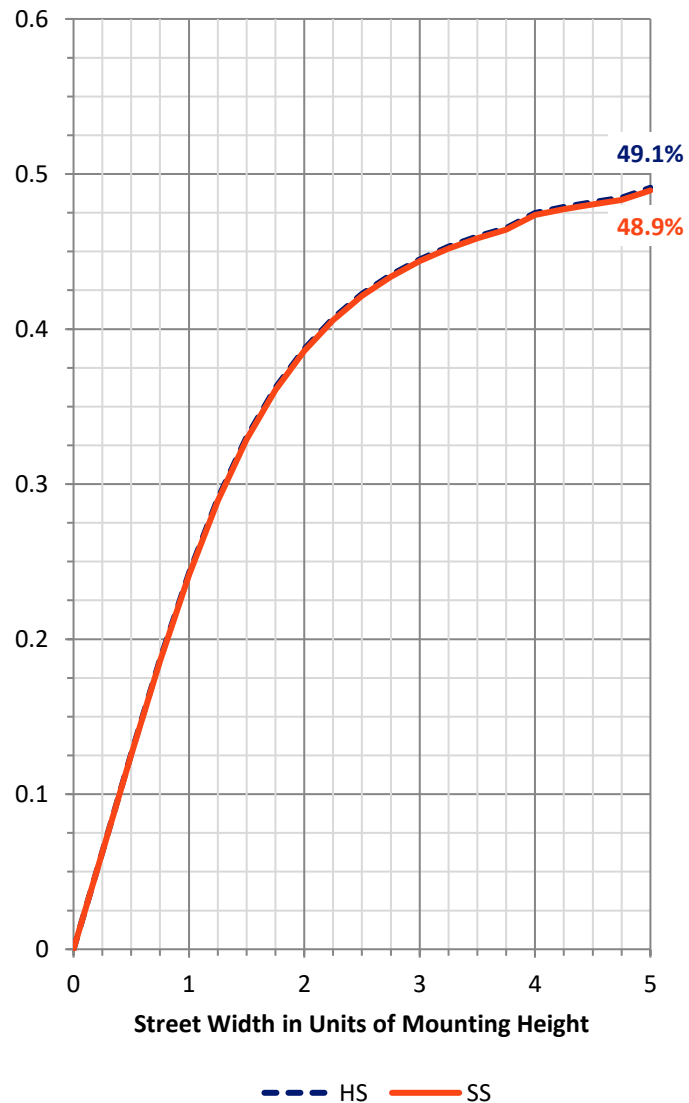
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3424.1	0.0	3424.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3424.1	0.0	3424.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	6848.2	0.0	6848.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	0.7
10°-20°	158.1	2.3
20°-30°	318.2	4.6
30°-40°	554.0	8.1
40°-50°	936.9	13.7
50°-60°	1396.6	20.4
60°-70°	1671.4	24.4
70°-80°	1353.2	19.8
80°-90°	412.3	6.0
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°	6848.2	100.0
0°-180°	6848.2	100.0

Coefficient of Utilization



REPORT NUMBER: P197786

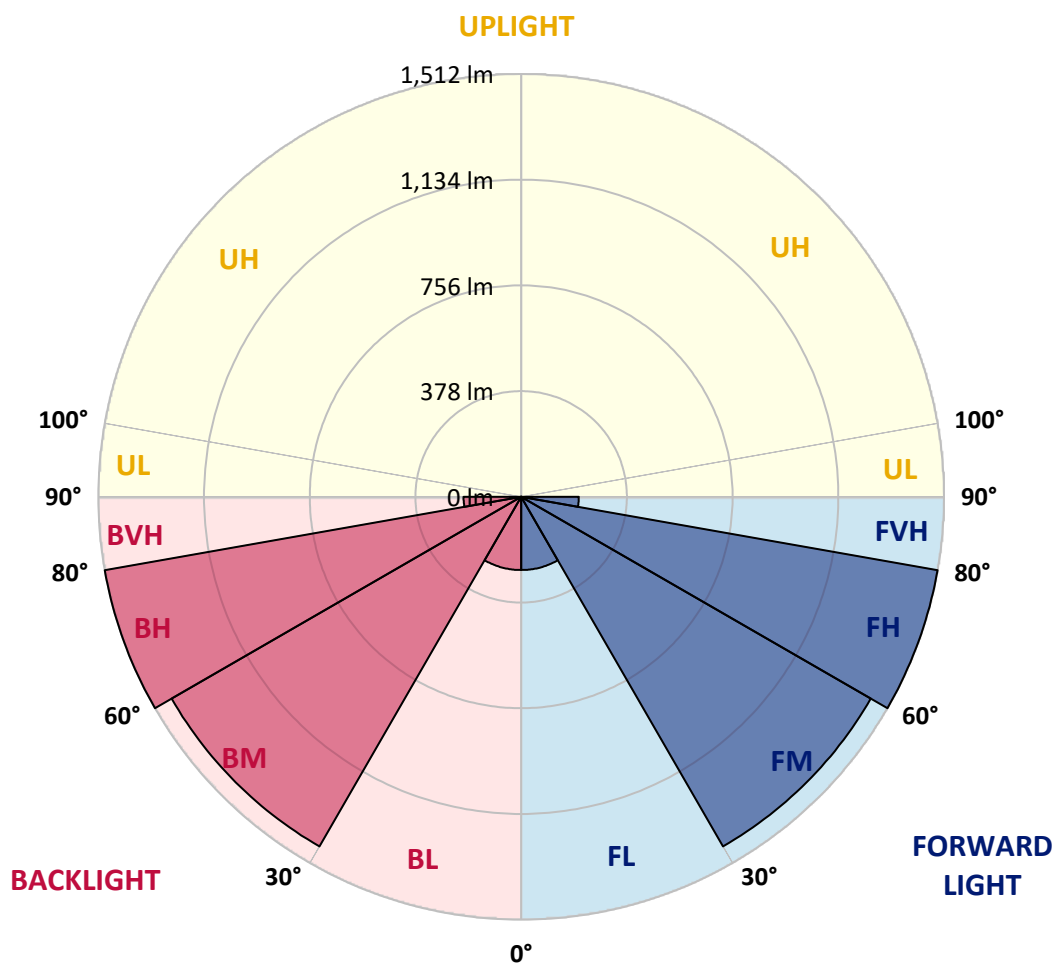
CATALOG NUMBER: TT-C4-LED-E1-WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	261.9	3.8			
FM	(30°-60°)	1443.8	21.1			
FH	(60°-80°)	1512.3	22.1			G1/1800
FVH	(80°-90°)	206.1	3.0			G2/225
BL	(0°-30°)	261.9	3.8	B1/500		
BM	(30°-60°)	1443.8	21.1	B2/2500		
BH	(60°-80°)	1512.3	22.1	B3/2500		G1/1800
BVH	(80°-90°)	206.1	3.0			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: P197786

CATALOG NUMBER: TT-C4-LED-E1-WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	479.7	479.7	479.7	479.7	479.7	479.7	479.7	479.7	479.7	479.7	479.7
2.5°	488.0	486.8	486.8	486.8	486.8	486.8	486.8	486.8	486.8	486.8	488.0
5°	496.3	496.3	495.1	493.9	493.9	492.7	492.7	492.7	493.9	495.1	495.1
7.5°	499.8	498.6	498.6	497.5	496.3	496.3	495.1	496.3	497.5	498.6	498.6
10°	506.9	508.1	509.3	510.5	511.7	510.5	508.1	510.5	510.5	509.3	506.9
12.5°	523.5	523.5	527.1	530.6	530.6	529.4	525.9	530.6	529.4	525.9	523.5
15°	546.0	547.2	547.2	550.8	548.4	546.0	542.5	548.4	548.4	546.0	544.8
17.5°	578.0	575.6	572.1	574.4	576.8	576.8	569.7	576.8	572.1	569.7	573.3
20°	613.5	612.3	611.2	613.5	623.0	619.4	615.9	620.6	614.7	606.4	608.8
22.5°	640.8	643.1	646.7	650.2	659.7	657.3	650.2	658.5	649.1	646.7	639.6
25°	675.1	673.9	683.4	683.4	689.3	685.8	677.5	689.3	679.9	683.4	672.7
27.5°	709.5	708.3	715.4	715.4	726.0	724.9	714.2	726.0	715.4	713.0	709.5
30°	748.5	746.2	747.4	756.8	772.2	772.2	762.8	768.7	756.8	745.0	743.8
32.5°	790.0	785.3	792.4	807.8	816.1	813.7	804.2	813.7	810.1	790.0	785.3
35°	830.3	836.2	849.2	862.3	877.6	880.0	871.7	876.5	863.4	848.0	836.2
37.5°	897.8	907.3	923.8	954.6	978.3	985.4	978.3	976.0	957.0	922.7	906.1
40°	992.5	994.9	1017.4	1063.6	1088.5	1093.2	1080.2	1083.7	1061.2	1023.3	987.8
42.5°	1069.5	1066.0	1106.2	1147.7	1173.8	1184.4	1170.2	1174.9	1144.1	1107.4	1068.3
45°	1132.3	1135.9	1177.3	1218.8	1260.2	1280.3	1269.7	1261.4	1216.4	1174.9	1140.6
47.5°	1190.3	1206.9	1235.3	1295.7	1347.9	1370.4	1362.1	1350.2	1302.9	1234.2	1208.1
50°	1263.8	1274.4	1308.8	1386.9	1435.5	1443.8	1436.7	1436.7	1391.7	1312.3	1276.8
52.5°	1343.1	1344.3	1395.2	1475.8	1537.4	1570.5	1564.6	1548.0	1477.0	1407.1	1349.0
55°	1437.9	1424.8	1504.2	1588.3	1680.7	1735.2	1732.8	1697.3	1600.1	1507.8	1430.8
57.5°	1491.2	1493.5	1565.8	1692.5	1781.4	1796.8	1805.0	1783.7	1710.3	1568.2	1507.8
60°	1503.0	1531.4	1597.8	1737.5	1807.4	1852.4	1854.8	1819.3	1742.3	1607.2	1543.3
62.5°	1507.8	1542.1	1623.8	1735.2	1853.6	1897.4	1905.7	1869.0	1744.6	1627.4	1533.8
65°	1514.9	1519.6	1626.2	1762.4	1859.5	1897.4	1906.9	1869.0	1768.3	1619.1	1516.0
67.5°	1485.3	1473.4	1567.0	1715.0	1809.8	1854.8	1865.4	1820.4	1718.6	1569.3	1488.8
70°	1378.7	1383.4	1487.6	1628.6	1732.8	1775.4	1782.5	1734.0	1627.4	1498.3	1404.7
72.5°	1266.1	1278.0	1365.6	1507.8	1601.3	1642.8	1655.8	1604.9	1514.9	1382.2	1285.1
75°	1109.8	1132.3	1216.4	1344.3	1437.9	1500.6	1513.7	1447.4	1339.6	1224.7	1131.1
77.5°	936.9	952.3	1032.8	1143.0	1243.6	1275.6	1287.5	1255.5	1148.9	1047.0	959.4
80°	736.7	742.6	824.4	912.0	990.2	1016.2	1034.0	993.7	921.5	829.1	743.8
82.5°	505.7	514.0	572.1	652.6	721.3	732.0	754.5	721.3	653.8	582.7	518.8
85°	262.9	274.8	319.8	363.6	416.9	429.9	437.0	412.2	376.6	318.6	276.0
87.5°	56.9	62.8	69.9	90.0	107.8	123.2	133.8	111.3	88.8	74.6	56.9
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: P197786

CATALOG NUMBER: TT-C4-LED-E1-WQ

CANDELA DISTRIBUTION (continued):

	90°
0°	479.7
2.5°	486.8
5°	495.1
7.5°	498.6
10°	506.9
12.5°	522.3
15°	546.0
17.5°	575.6
20°	607.6
22.5°	636.0
25°	670.4
27.5°	709.5
30°	749.7
32.5°	782.9
35°	829.1
37.5°	904.9
40°	996.1
42.5°	1069.5
45°	1129.9
47.5°	1197.4
50°	1265.0
52.5°	1351.4
55°	1436.7
57.5°	1480.5
60°	1507.8
62.5°	1529.1
65°	1531.4
67.5°	1469.9
70°	1376.3
72.5°	1269.7
75°	1113.3
77.5°	948.7
80°	736.7
82.5°	517.6
85°	271.2
87.5°	53.3
90°	0.0

(END OF REPORT)