

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: P197789

Luminaire Tested: **TT-C5-LED-E1-WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197789
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-C5-LED-E1-WQ-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6691.3 lumens
Efficiency: N/A
Efficacy: 86.9 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): 77
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



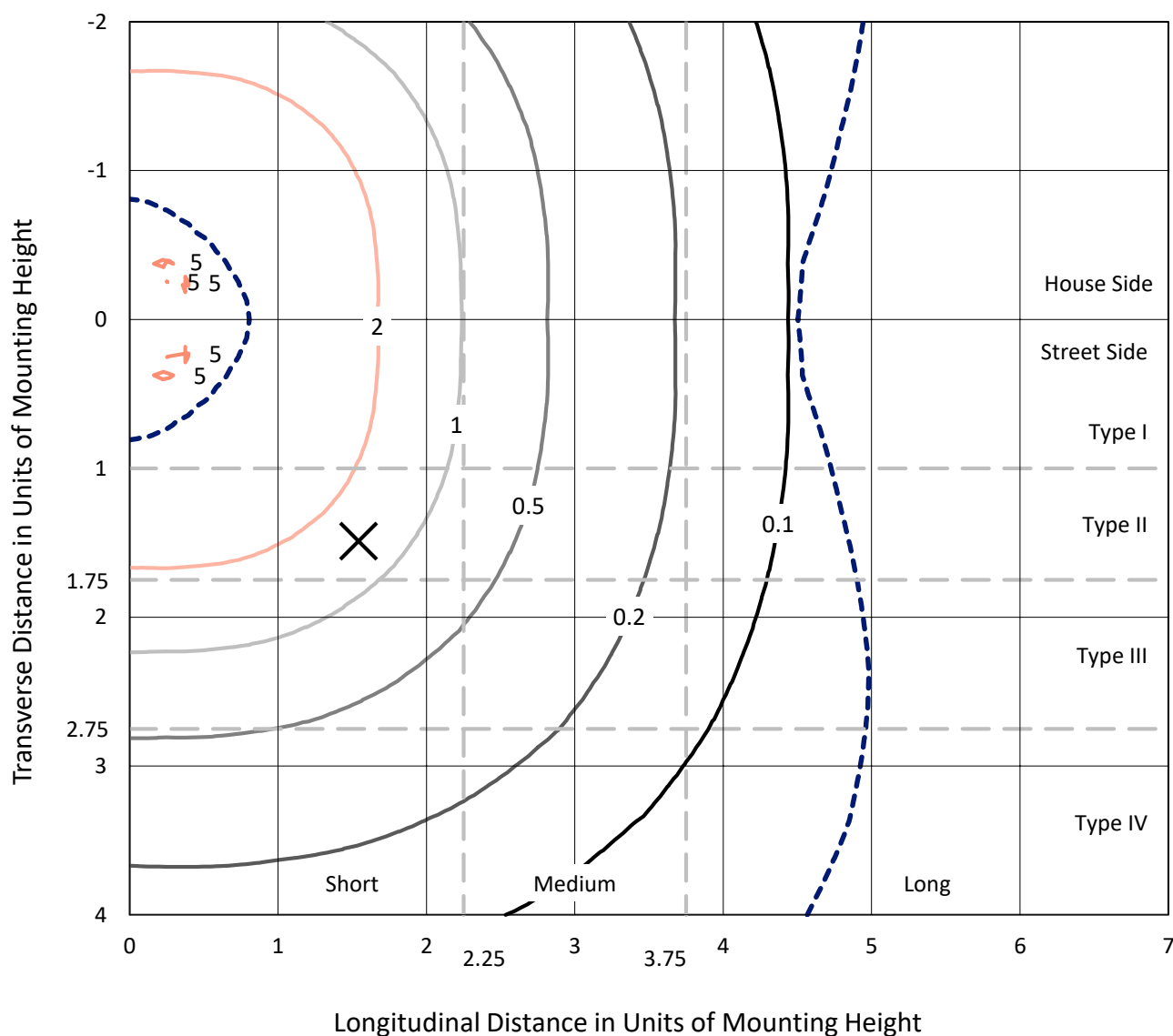
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



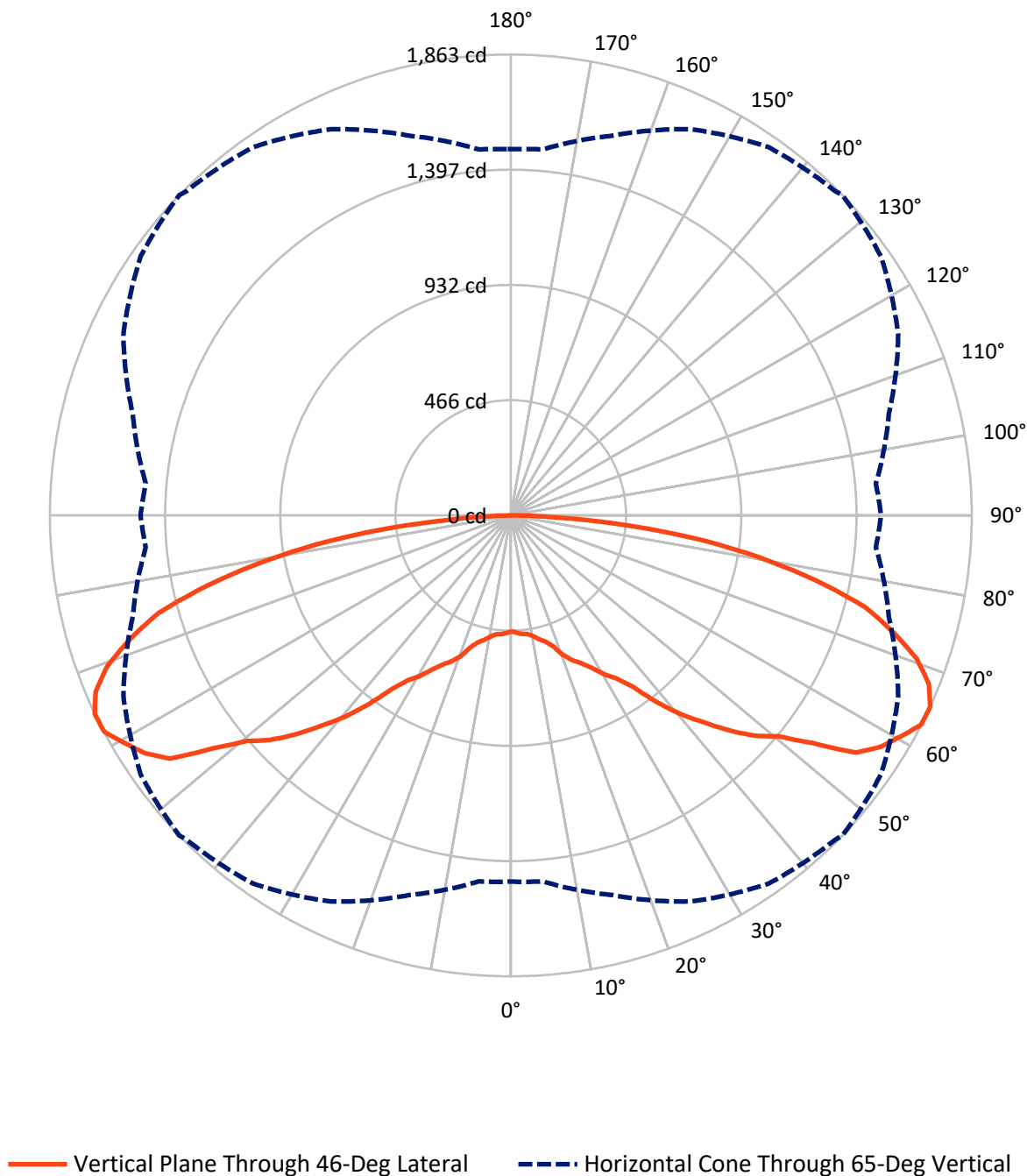
Based on 10 foot mounting height. Maximum calculated value = 5 fc

Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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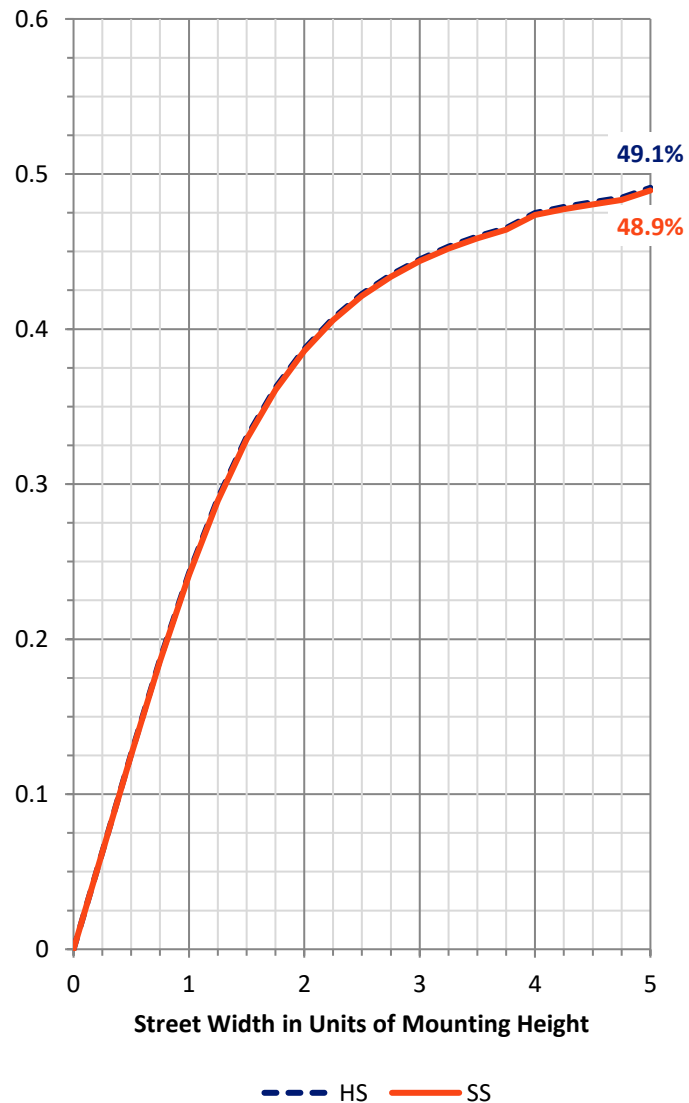
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3345.6	0.0	3345.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3345.6	0.0	3345.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	6691.3	0.0	6691.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	0.7
10°-20°	154.5	2.3
20°-30°	310.9	4.6
30°-40°	541.3	8.1
40°-50°	915.5	13.7
50°-60°	1364.6	20.4
60°-70°	1633.1	24.4
70°-80°	1322.2	19.8
80°-90°	402.8	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°	6691.3	100.0
0°-180°	6691.3	100.0

Coefficient of Utilization



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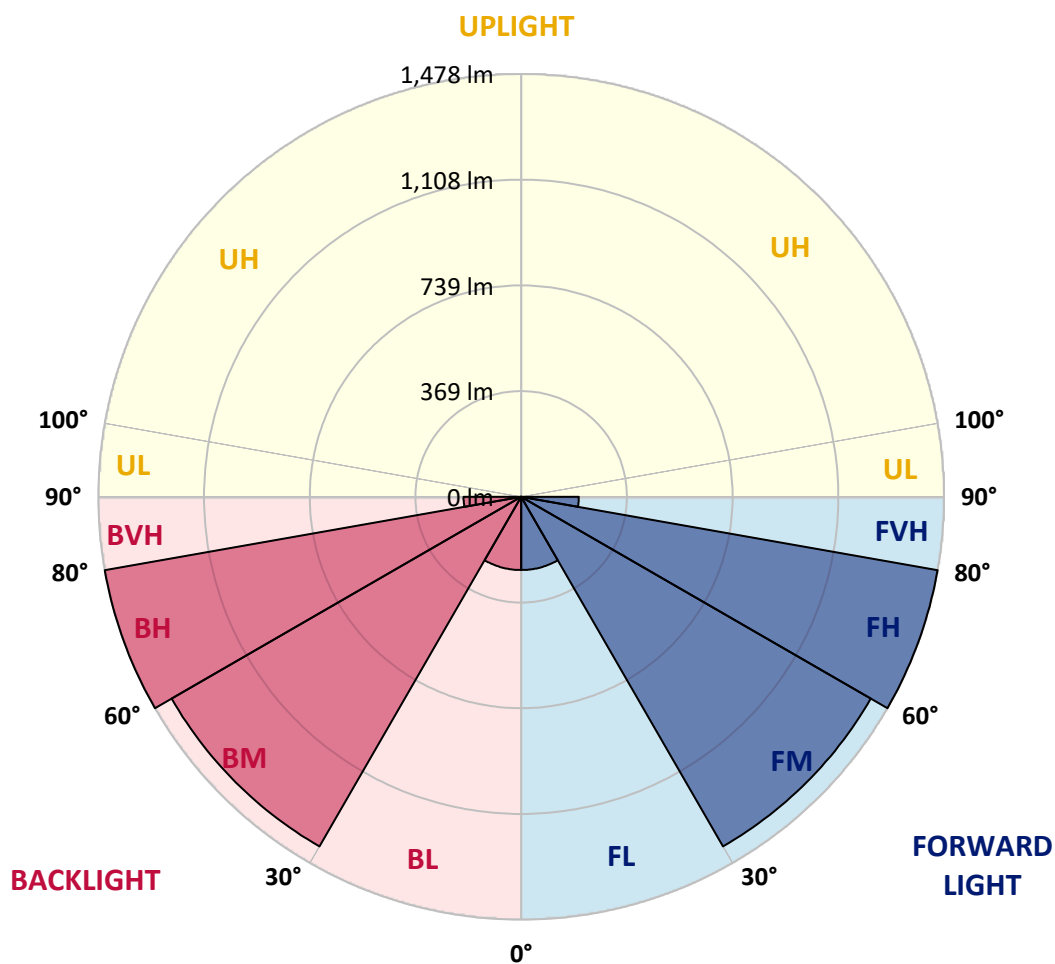
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	255.9	3.8			
FM	(30°-60°)	1410.7	21.1			
FH	(60°-80°)	1477.7	22.1			G1/1800
FVH	(80°-90°)	201.4	3.0			G2/225
BL	(0°-30°)	255.9	3.8	B1/500		
BM	(30°-60°)	1410.7	21.1	B2/2500		
BH	(60°-80°)	1477.7	22.1	B3/2500		G1/1800
BVH	(80°-90°)	201.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	468.7	468.7	468.7	468.7	468.7	468.7	468.7	468.7	468.7	468.7	468.7
2.5°	476.8	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	476.8
5°	484.9	484.9	483.7	482.6	482.6	481.4	481.4	481.4	482.6	483.7	483.7
7.5°	488.4	487.2	487.2	486.1	484.9	484.9	483.7	484.9	486.1	487.2	487.2
10°	495.3	496.5	497.6	498.8	499.9	498.8	496.5	498.8	498.8	497.6	495.3
12.5°	511.5	511.5	515.0	518.5	518.5	517.3	513.8	518.5	517.3	513.8	511.5
15°	533.5	534.7	534.7	538.1	535.8	533.5	530.0	535.8	535.8	533.5	532.4
17.5°	564.8	562.4	559.0	561.3	563.6	563.6	556.7	563.6	559.0	556.7	560.1
20°	599.5	598.3	597.2	599.5	608.7	605.3	601.8	606.4	600.6	592.5	594.8
22.5°	626.1	628.4	631.9	635.3	644.6	642.3	635.3	643.4	634.2	631.9	624.9
25°	659.7	658.5	667.8	667.8	673.5	670.1	662.0	673.5	664.3	667.8	657.3
27.5°	693.2	692.1	699.0	699.0	709.4	708.3	697.8	709.4	699.0	696.7	693.2
30°	731.4	729.1	730.2	739.5	754.5	754.5	745.3	751.1	739.5	727.9	726.8
32.5°	771.9	767.3	774.2	789.3	797.4	795.1	785.8	795.1	791.6	771.9	767.3
35°	811.3	817.0	829.8	842.5	857.5	859.9	851.8	856.4	843.7	828.6	817.0
37.5°	877.2	886.5	902.7	932.8	955.9	962.9	955.9	953.6	935.1	901.5	885.3
40°	969.8	972.1	994.1	1039.2	1063.5	1068.2	1055.4	1058.9	1036.9	999.9	965.2
42.5°	1045.0	1041.6	1080.9	1121.4	1146.9	1157.3	1143.4	1148.0	1117.9	1082.1	1043.9
45°	1106.4	1109.8	1150.3	1190.8	1231.3	1251.0	1240.6	1232.5	1188.5	1148.0	1114.5
47.5°	1163.1	1179.3	1207.0	1266.1	1317.0	1339.0	1330.9	1319.3	1273.0	1205.9	1180.4
50°	1234.8	1245.2	1278.8	1355.2	1402.6	1410.7	1403.8	1403.8	1359.8	1282.3	1247.6
52.5°	1312.4	1313.5	1363.3	1442.0	1502.2	1534.6	1528.8	1512.6	1443.1	1374.9	1318.1
55°	1404.9	1392.2	1469.8	1551.9	1642.2	1695.4	1693.1	1658.4	1563.5	1473.2	1398.0
57.5°	1457.0	1459.3	1529.9	1653.8	1740.6	1755.6	1763.7	1742.9	1671.1	1532.2	1473.2
60°	1468.6	1496.4	1561.2	1697.7	1766.0	1810.0	1812.3	1777.6	1702.4	1570.4	1507.9
62.5°	1473.2	1506.8	1586.6	1695.4	1811.1	1854.0	1862.1	1826.2	1704.7	1590.1	1498.7
65°	1480.2	1484.8	1589.0	1722.0	1816.9	1854.0	1863.2	1826.2	1727.8	1582.0	1481.3
67.5°	1451.2	1439.7	1531.1	1675.7	1768.3	1812.3	1822.7	1778.7	1679.2	1533.4	1454.7
70°	1347.1	1351.7	1453.5	1591.3	1693.1	1734.8	1741.7	1694.3	1590.1	1464.0	1372.5
72.5°	1237.1	1248.7	1334.3	1473.2	1564.6	1605.2	1617.9	1568.1	1480.2	1350.5	1255.7
75°	1084.4	1106.4	1188.5	1313.5	1404.9	1466.3	1479.0	1414.2	1308.9	1196.6	1105.2
77.5°	915.4	930.5	1009.2	1116.8	1215.1	1246.4	1258.0	1226.7	1122.6	1023.0	937.4
80°	719.8	725.6	805.5	891.1	967.5	992.9	1010.3	971.0	900.4	810.1	726.8
82.5°	494.2	502.3	559.0	637.7	704.8	715.2	737.2	704.8	638.8	569.4	506.9
85°	256.9	268.5	312.5	355.3	407.4	420.1	427.0	402.7	368.0	311.3	269.6
87.5°	55.5	61.3	68.3	88.0	105.3	120.4	130.8	108.8	86.8	72.9	55.5
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°	468.7
2.5°	475.6
5°	483.7
7.5°	487.2
10°	495.3
12.5°	510.4
15°	533.5
17.5°	562.4
20°	593.7
22.5°	621.5
25°	655.0
27.5°	693.2
30°	732.6
32.5°	765.0
35°	810.1
37.5°	884.2
40°	973.3
42.5°	1045.0
45°	1104.0
47.5°	1170.0
50°	1236.0
52.5°	1320.5
55°	1403.8
57.5°	1446.6
60°	1473.2
62.5°	1494.1
65°	1496.4
67.5°	1436.2
70°	1344.8
72.5°	1240.6
75°	1087.8
77.5°	927.0
80°	719.8
82.5°	505.7
85°	265.0
87.5°	52.1
90°	0.0

(END OF REPORT)