

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: P198005

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34691)
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-RW-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5881.5 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

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



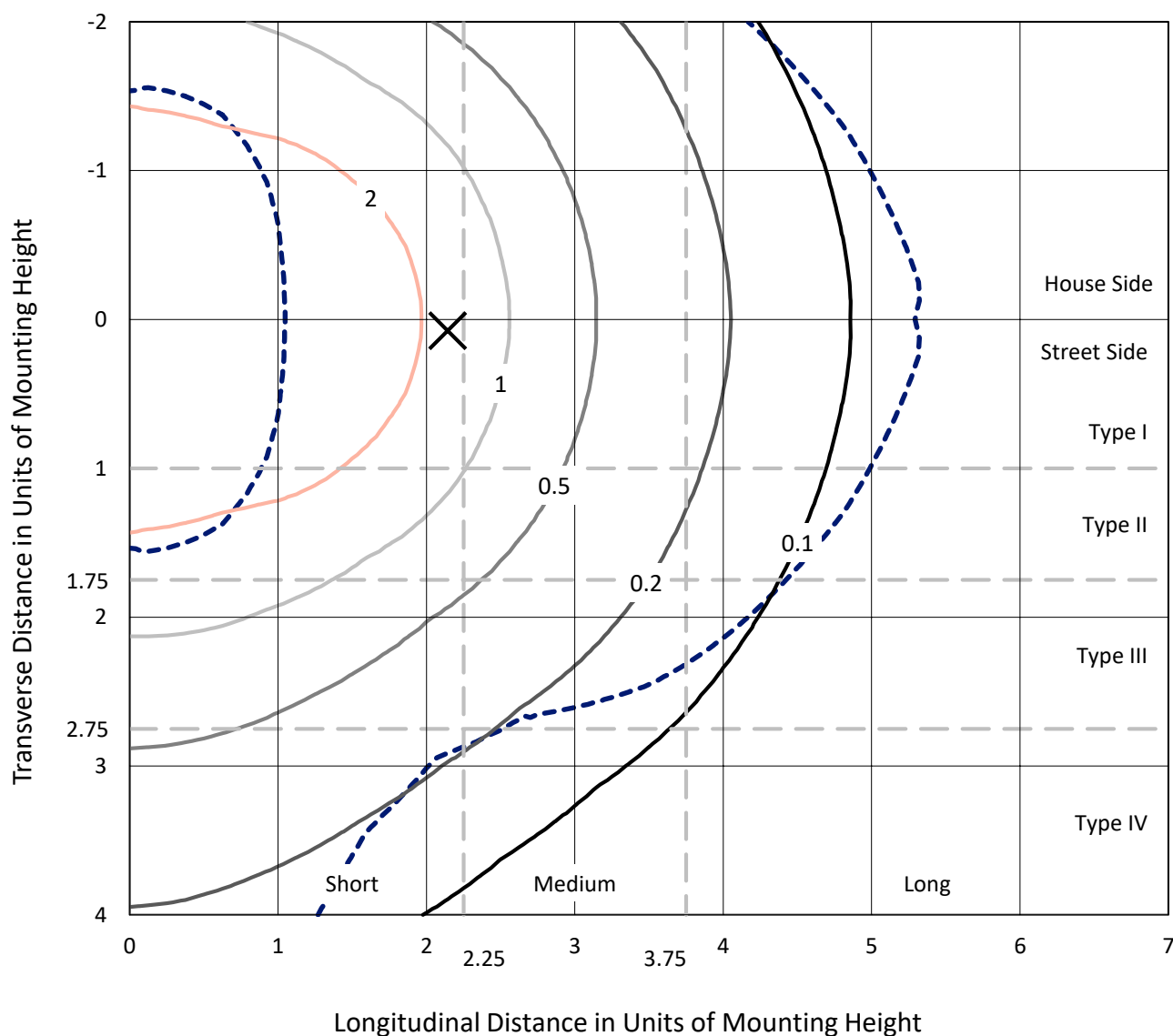
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

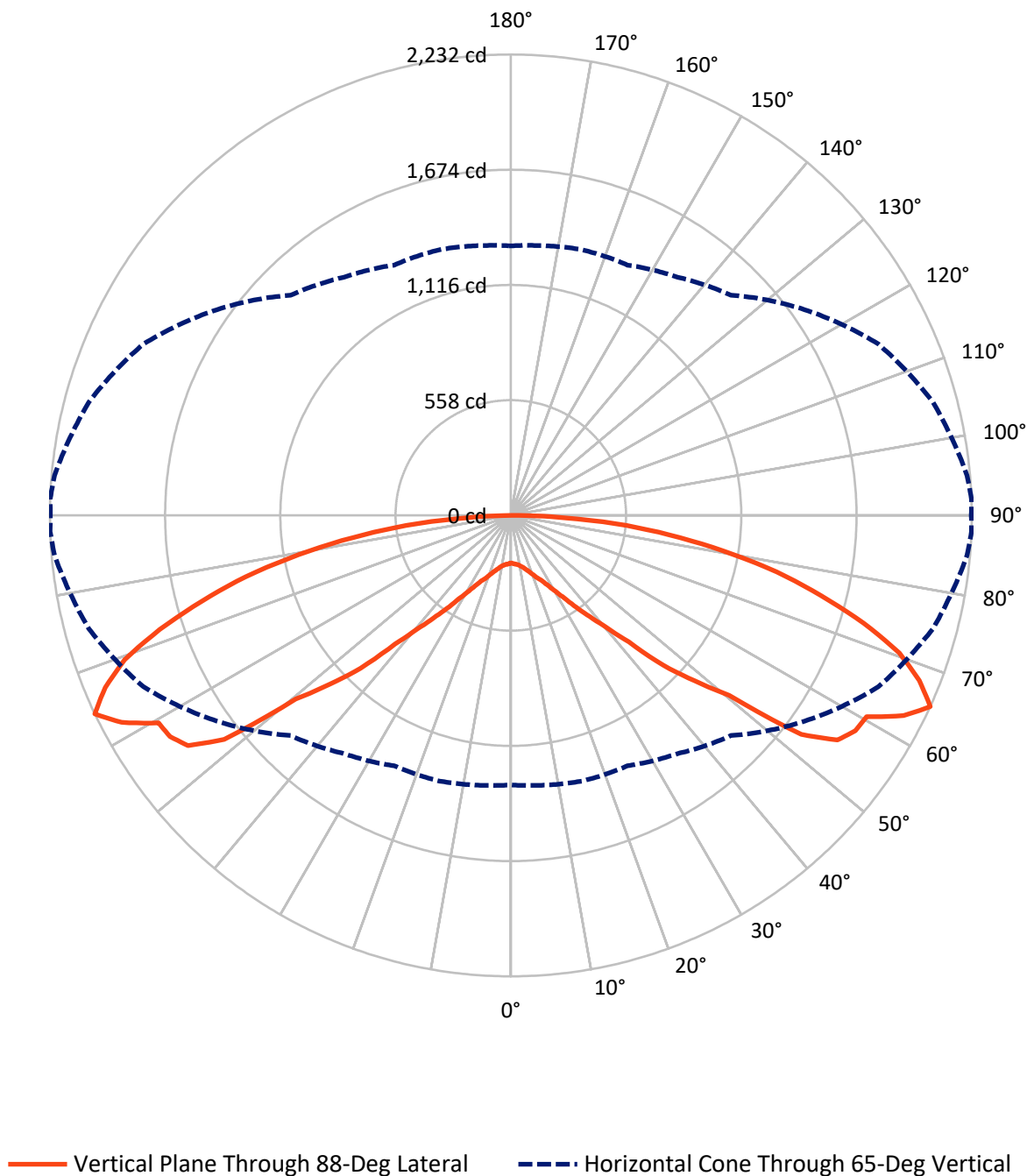


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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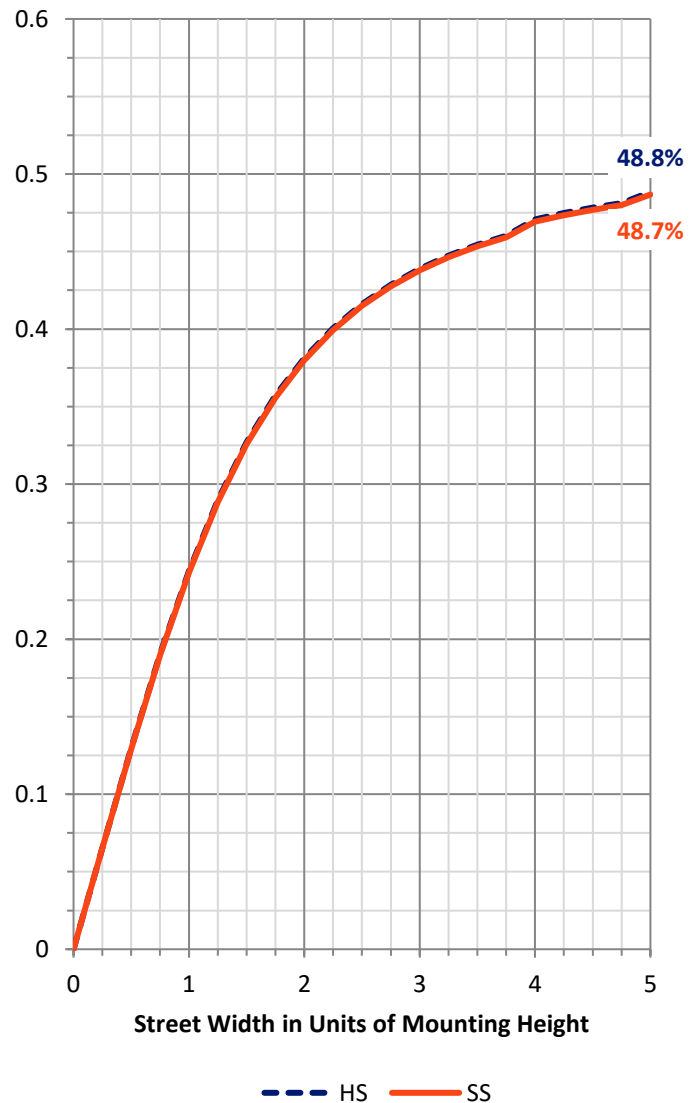
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2940.8	0.0	2940.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2940.8	0.0	2940.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	5881.5	0.0	5881.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.1	0.4
10°-20°	80.1	1.4
20°-30°	176.9	3.0
30°-40°	352.5	6.0
40°-50°	674.7	11.5
50°-60°	1207.7	20.5
60°-70°	1600.3	27.2
70°-80°	1335.5	22.7
80°-90°	430.9	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°	5881.5	100.0
0°-180°	5881.5	100.0

Coefficient of Utilization



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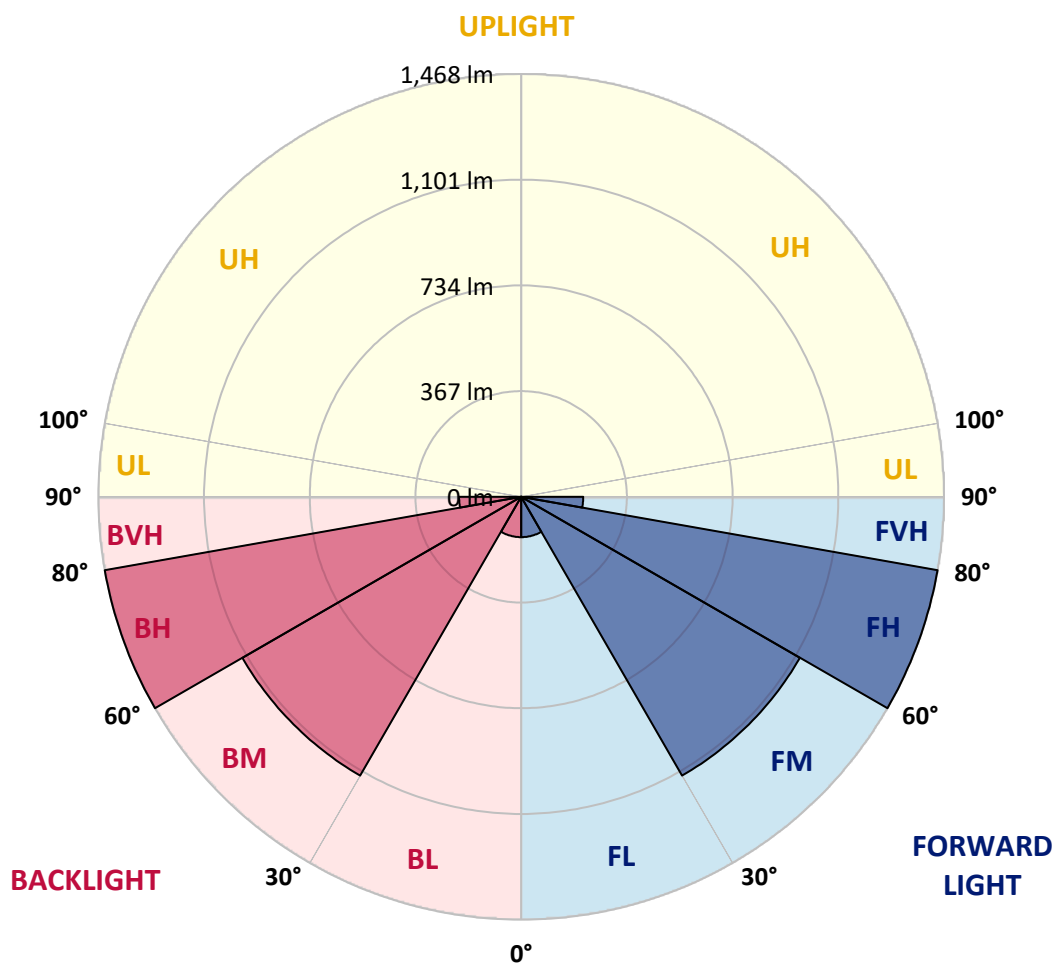
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	140.0	2.4			
FM	(30°-60°)	1117.4	19.0			
FH	(60°-80°)	1467.9	25.0			G1/1800
FVH	(80°-90°)	215.4	3.7			G2/225
BL	(0°-30°)	140.0	2.4	B1/500		
BM	(30°-60°)	1117.4	19.0	B2/2500		
BH	(60°-80°)	1467.9	25.0	B3/2500		G3/2500
BVH	(80°-90°)	215.4	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
0°	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3
2.5°	232.6	232.6	232.6	232.6	233.8	233.8	233.8	233.8	233.8	233.8	233.8
5°	236.1	236.1	237.2	237.2	238.4	238.4	238.4	238.4	237.2	237.2	237.2
7.5°	241.9	243.0	244.2	244.2	244.2	243.0	241.9	241.9	240.7	240.7	240.7
10°	252.3	252.3	253.4	253.4	252.3	251.1	250.0	248.8	248.8	248.8	247.7
12.5°	265.0	265.0	266.2	265.0	262.7	261.5	259.2	258.1	258.1	256.9	256.9
15°	282.4	284.7	284.7	281.2	277.7	274.3	273.1	270.8	270.8	270.8	270.8
17.5°	309.0	307.8	303.2	299.7	297.4	291.6	289.3	288.2	285.8	285.8	285.8
20°	339.1	336.8	331.0	326.4	321.7	314.8	310.2	307.8	306.7	305.5	305.5
22.5°	372.6	369.2	361.1	357.6	348.3	341.4	335.6	331.0	327.5	326.4	328.7
25°	407.4	407.4	400.4	391.2	381.9	371.5	363.4	357.6	353.0	351.8	350.7
27.5°	444.4	446.7	437.5	428.2	417.8	403.9	395.8	387.7	386.5	385.4	384.2
30°	483.7	488.4	479.1	469.9	456.0	442.1	431.7	428.2	424.7	427.0	427.0
32.5°	532.4	534.7	524.2	517.3	498.8	484.9	475.6	473.3	474.5	473.3	476.8
35°	589.1	585.6	577.5	563.6	547.4	534.7	527.7	532.4	545.1	549.7	547.4
37.5°	651.6	638.8	634.2	616.8	601.8	591.4	593.7	605.3	615.7	623.8	621.5
40°	697.8	700.2	687.4	671.2	657.3	655.0	667.8	682.8	702.5	709.4	711.7
42.5°	745.3	759.2	744.1	727.9	721.0	725.6	744.1	774.2	818.2	841.3	837.9
45°	799.7	814.7	798.5	785.8	784.6	802.0	842.5	921.2	986.0	1032.3	1036.9
47.5°	856.4	868.0	852.9	844.8	856.4	890.0	959.4	1064.7	1134.1	1188.5	1197.8
50°	928.1	923.5	911.9	910.8	936.2	997.6	1091.3	1197.8	1322.8	1358.7	1370.2
52.5°	998.7	981.4	979.1	984.8	1030.0	1099.4	1224.4	1433.9	1617.9	1747.5	1761.4
55°	1064.7	1045.0	1049.7	1064.7	1128.4	1233.7	1407.3	1663.0	1823.9	1915.3	1919.9
57.5°	1124.9	1113.3	1123.7	1144.6	1239.5	1374.9	1558.9	1769.5	1891.0	1955.8	1967.4
60°	1186.2	1183.9	1196.6	1234.8	1336.7	1457.0	1610.9	1797.3	1918.8	1968.5	1980.1
62.5°	1244.1	1252.2	1268.4	1305.4	1384.1	1477.9	1627.1	1855.1	2036.8	2115.5	2135.2
65°	1305.4	1312.4	1332.0	1337.8	1408.4	1507.9	1737.1	1963.9	2116.7	2218.5	2232.4
67.5°	1361.0	1370.2	1363.3	1358.7	1420.0	1507.9	1715.1	1914.1	2041.4	2119.0	2134.0
70°	1414.2	1403.8	1376.0	1340.1	1357.5	1417.7	1607.5	1779.9	1908.4	1981.3	1996.3
72.5°	1428.1	1414.2	1340.1	1258.0	1232.5	1277.6	1452.4	1605.2	1710.5	1778.7	1788.0
75°	1392.2	1363.3	1238.3	1124.9	1076.3	1121.4	1267.2	1398.0	1472.1	1546.1	1551.9
77.5°	1248.7	1230.2	1091.3	953.6	899.2	932.8	1054.3	1146.9	1232.5	1304.3	1318.1
80°	1025.4	1009.2	886.5	774.2	701.3	724.5	813.6	887.6	969.8	1026.5	1043.9
82.5°	754.5	752.2	664.3	559.0	508.0	505.7	572.9	645.8	708.3	762.6	774.2
85°	474.5	474.5	414.3	350.7	297.4	298.6	339.1	392.3	471.0	505.7	509.2
87.5°	160.9	152.8	142.3	115.7	92.6	83.3	89.1	101.8	155.1	192.1	199.1
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°	230.3
2.5°	233.8
5°	237.2
7.5°	240.7
10°	247.7
12.5°	258.1
15°	269.6
17.5°	285.8
20°	305.5
22.5°	327.5
25°	350.7
27.5°	385.4
30°	425.9
32.5°	475.6
35°	548.6
37.5°	623.8
40°	717.5
42.5°	847.1
45°	1025.4
47.5°	1197.8
50°	1357.5
52.5°	1732.5
55°	1924.6
57.5°	1966.2
60°	1976.6
62.5°	2124.8
65°	2230.1
67.5°	2132.9
70°	1992.8
72.5°	1781.1
75°	1561.2
77.5°	1318.1
80°	1030.0
82.5°	774.2
85°	501.1
87.5°	193.3
90°	0.0

(END OF REPORT)