

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: P198146

Luminaire Tested: **TT-C4-LED-E1-RW-SG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34699)
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-RW-SG
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5693.5 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

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



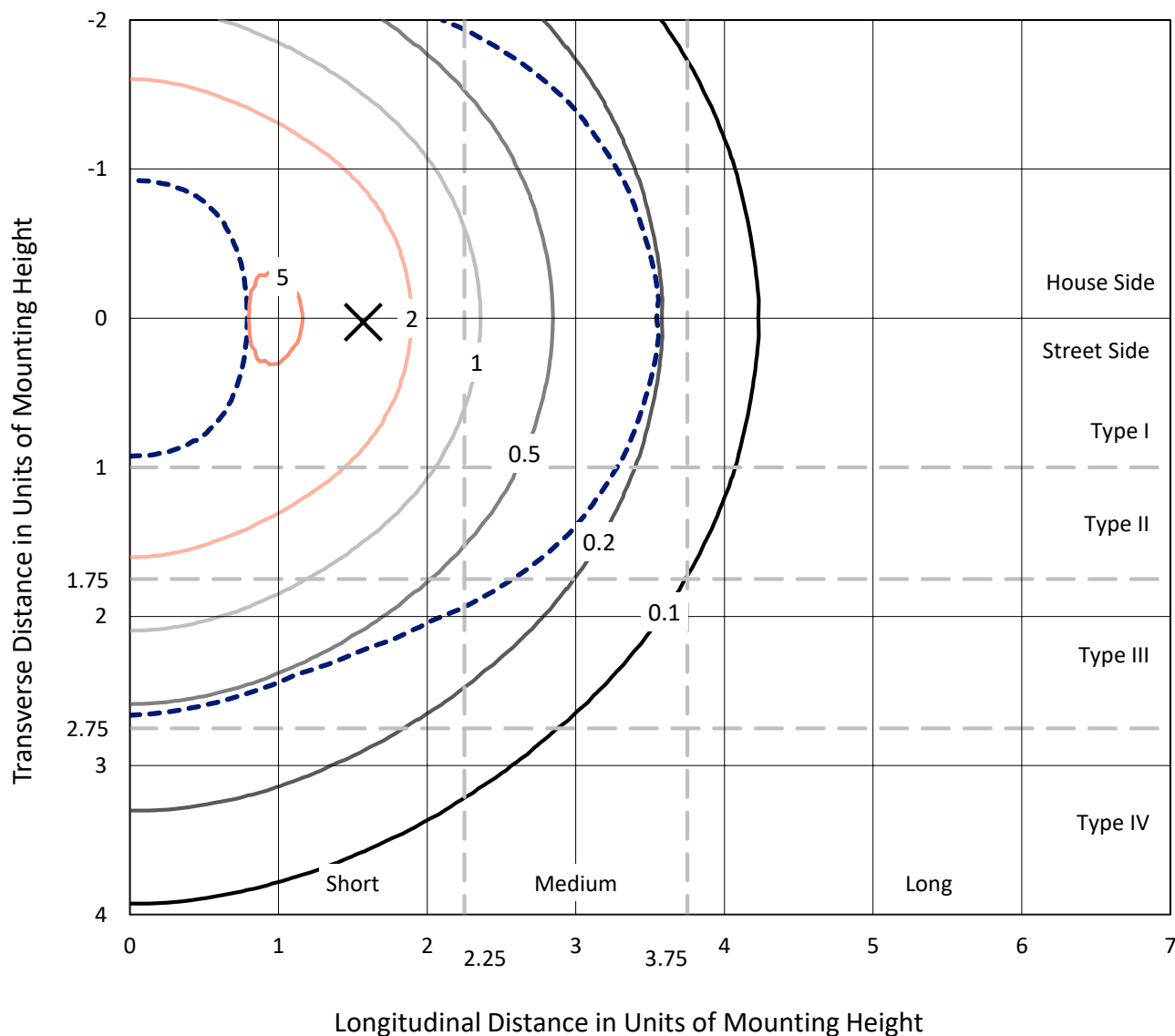
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

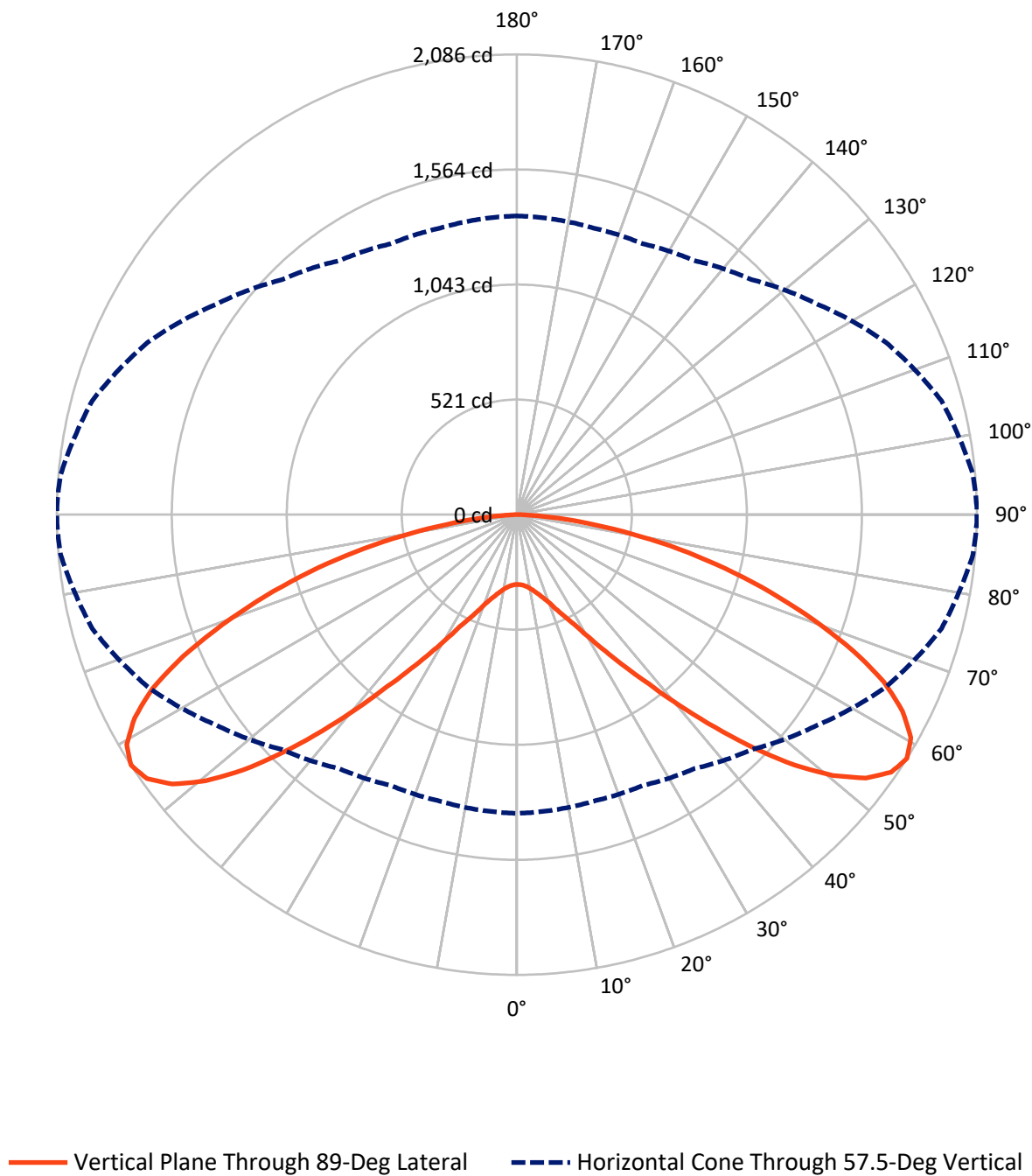


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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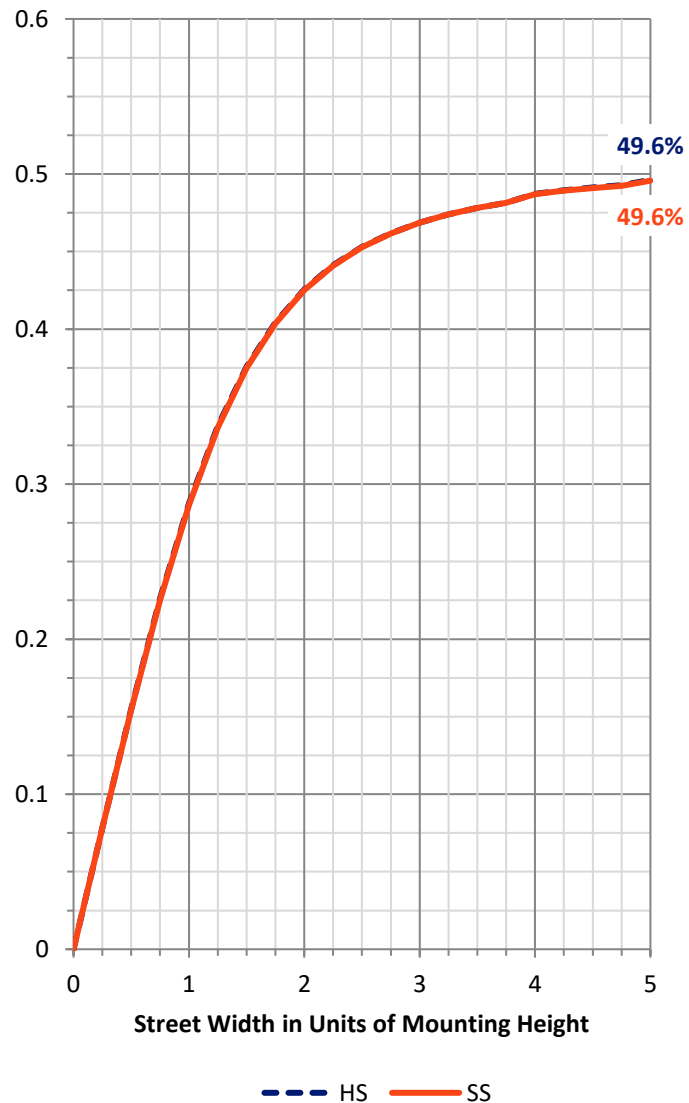
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2846.8	0.0	2846.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2846.8	0.0	2846.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	5693.5	0.0	5693.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.4	0.6
10°-20°	109.6	1.9
20°-30°	245.6	4.3
30°-40°	508.2	8.9
40°-50°	964.7	16.9
50°-60°	1411.7	24.8
60°-70°	1407.4	24.7
70°-80°	837.7	14.7
80°-90°	177.2	3.1
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°	5693.5	100.0
0°-180°	5693.5	100.0

Coefficient of Utilization



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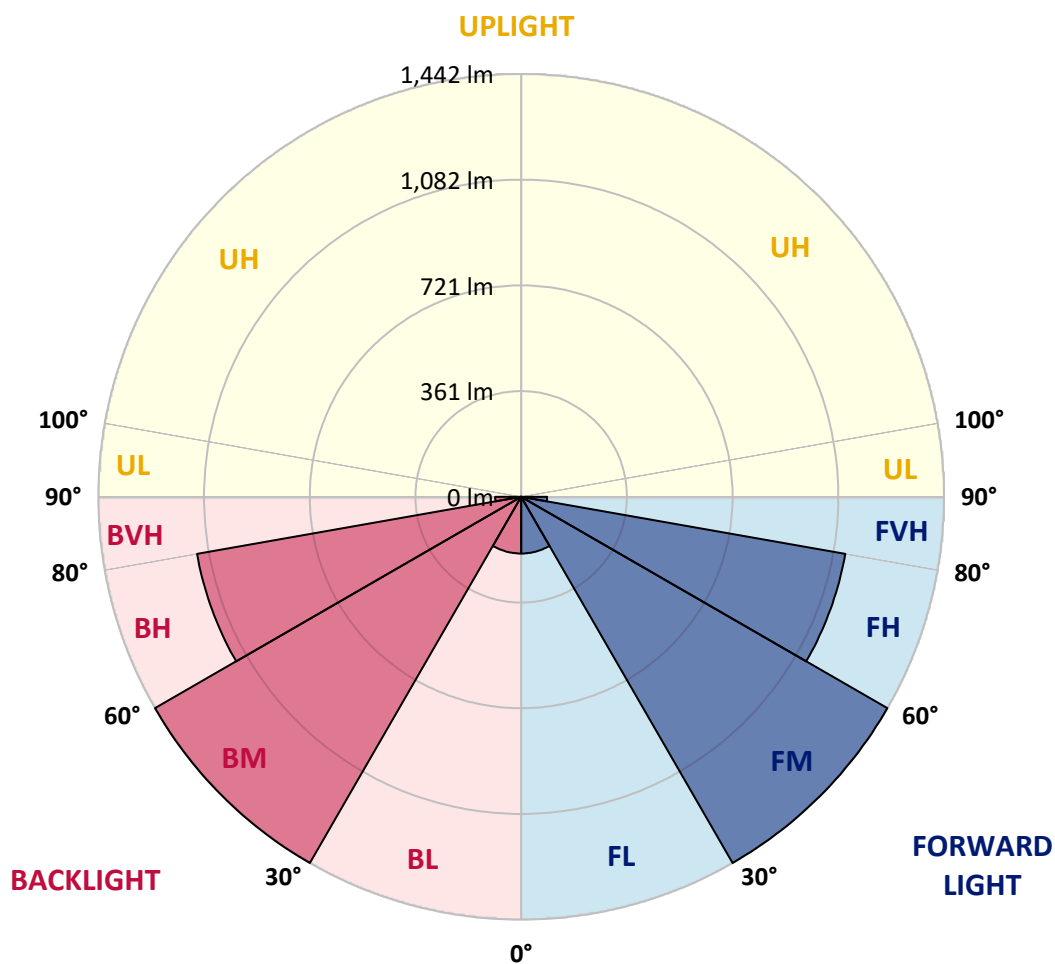
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	193.3	3.4			
FM	(30°-60°)	1442.3	25.3			
FH	(60°-80°)	1122.6	19.7			G1/1800
FVH	(80°-90°)	88.6	1.6			G1/100
BL	(0°-30°)	193.3	3.4	B1/500		
BM	(30°-60°)	1442.3	25.3	B2/2500		
BH	(60°-80°)	1122.6	19.7	B3/2500		G3/2500
BVH	(80°-90°)	88.6	1.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2
2.5°	318.6	318.6	318.6	318.6	317.4	317.4	317.4	317.4	317.4	317.4	317.4
5°	323.3	323.3	322.2	323.3	322.2	322.2	322.2	322.2	322.2	322.2	322.2
7.5°	330.5	330.5	330.5	330.5	330.5	330.5	329.3	330.5	329.3	329.3	329.3
10°	343.5	342.3	343.5	342.3	342.3	341.1	341.1	341.1	341.1	341.1	341.1
12.5°	360.1	360.1	360.1	358.9	357.7	357.7	356.5	356.5	356.5	355.3	356.5
15°	382.6	383.7	380.2	379.0	379.0	376.6	375.5	376.6	375.5	374.3	375.5
17.5°	409.8	411.0	408.6	406.3	403.9	402.7	401.5	400.3	400.3	400.3	399.1
20°	445.3	445.3	443.0	438.2	434.7	432.3	432.3	431.1	431.1	432.3	428.8
22.5°	485.6	484.4	482.1	479.7	474.9	470.2	467.8	466.7	466.7	469.0	470.2
25°	535.4	536.5	529.4	524.7	520.0	511.7	510.5	511.7	512.9	512.9	515.2
27.5°	586.3	588.7	582.7	575.6	568.5	565.0	562.6	565.0	567.3	570.9	569.7
30°	646.7	645.5	644.3	633.7	625.4	621.8	624.2	631.3	637.2	645.5	646.7
32.5°	711.8	714.2	705.9	697.6	694.1	690.5	694.1	709.5	726.0	730.8	736.7
35°	788.8	784.1	779.3	773.4	767.5	767.5	785.3	803.0	829.1	846.9	846.9
37.5°	867.0	863.4	855.1	846.9	846.9	858.7	876.5	920.3	958.2	984.2	973.6
40°	947.5	942.8	940.4	930.9	932.1	960.6	998.5	1052.9	1107.4	1144.1	1137.0
42.5°	1029.3	1030.4	1022.1	1018.6	1029.3	1061.2	1127.6	1201.0	1269.7	1315.9	1317.1
45°	1113.3	1113.3	1107.4	1105.1	1125.2	1173.8	1256.7	1357.3	1449.7	1503.0	1508.9
47.5°	1190.3	1189.1	1184.4	1183.2	1217.6	1275.6	1379.8	1508.9	1622.6	1681.9	1697.3
50°	1256.7	1257.8	1250.7	1256.7	1287.5	1364.4	1490.0	1646.3	1776.6	1851.2	1858.3
52.5°	1308.8	1310.0	1301.7	1306.4	1347.9	1436.7	1576.5	1751.7	1893.9	1973.2	1982.7
55°	1344.3	1339.6	1333.6	1340.8	1388.1	1486.4	1639.2	1821.6	1969.7	2052.6	2059.7
57.5°	1353.8	1350.2	1344.3	1353.8	1404.7	1505.4	1662.9	1846.5	1993.4	2076.3	2085.7
60°	1339.6	1339.6	1332.5	1343.1	1394.1	1492.4	1646.3	1824.0	1963.8	2039.6	2052.6
62.5°	1302.9	1302.9	1294.6	1302.9	1351.4	1442.6	1589.5	1754.1	1880.8	1947.2	1962.6
65°	1234.2	1233.0	1228.2	1230.6	1270.9	1357.3	1491.2	1640.4	1750.6	1809.8	1829.9
67.5°	1134.7	1131.1	1126.4	1131.1	1160.7	1237.7	1360.9	1491.2	1582.4	1639.2	1644.0
70°	1007.9	1004.4	998.5	996.1	1026.9	1088.5	1188.0	1302.9	1378.7	1420.1	1424.8
72.5°	857.5	862.3	857.5	850.4	870.5	925.0	1007.9	1095.6	1158.4	1196.3	1202.2
75°	709.5	710.6	698.8	696.4	711.8	746.2	813.7	881.2	935.7	967.7	977.1
77.5°	549.6	549.6	538.9	533.0	541.3	570.9	617.1	671.6	716.6	736.7	753.3
80°	395.6	395.6	386.1	371.9	380.2	395.6	437.0	466.7	502.2	524.7	527.1
82.5°	247.5	244.0	246.4	235.7	238.1	242.8	268.9	289.0	310.3	322.2	323.3
85°	129.1	124.4	122.0	116.1	112.5	120.8	132.7	146.9	151.6	162.3	158.7
87.5°	40.3	37.9	36.7	36.7	33.2	35.5	36.7	39.1	45.0	45.0	47.4
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°	316.2
2.5°	317.4
5°	322.2
7.5°	329.3
10°	341.1
12.5°	355.3
15°	375.5
17.5°	400.3
20°	428.8
22.5°	466.7
25°	512.9
27.5°	567.3
30°	645.5
32.5°	733.2
35°	839.7
37.5°	985.4
40°	1135.9
42.5°	1325.4
45°	1508.9
47.5°	1697.3
50°	1854.8
52.5°	1979.2
55°	2063.2
57.5°	2085.7
60°	2049.0
62.5°	1959.0
65°	1827.5
67.5°	1644.0
70°	1432.0
72.5°	1198.6
75°	966.5
77.5°	748.5
80°	527.1
82.5°	332.8
85°	158.7
87.5°	50.9
90°	0.0

(END OF REPORT)