

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: P198145

Luminaire Tested: **TT-C4-LED-E1-RW-SG-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198145
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-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4293.9 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - 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

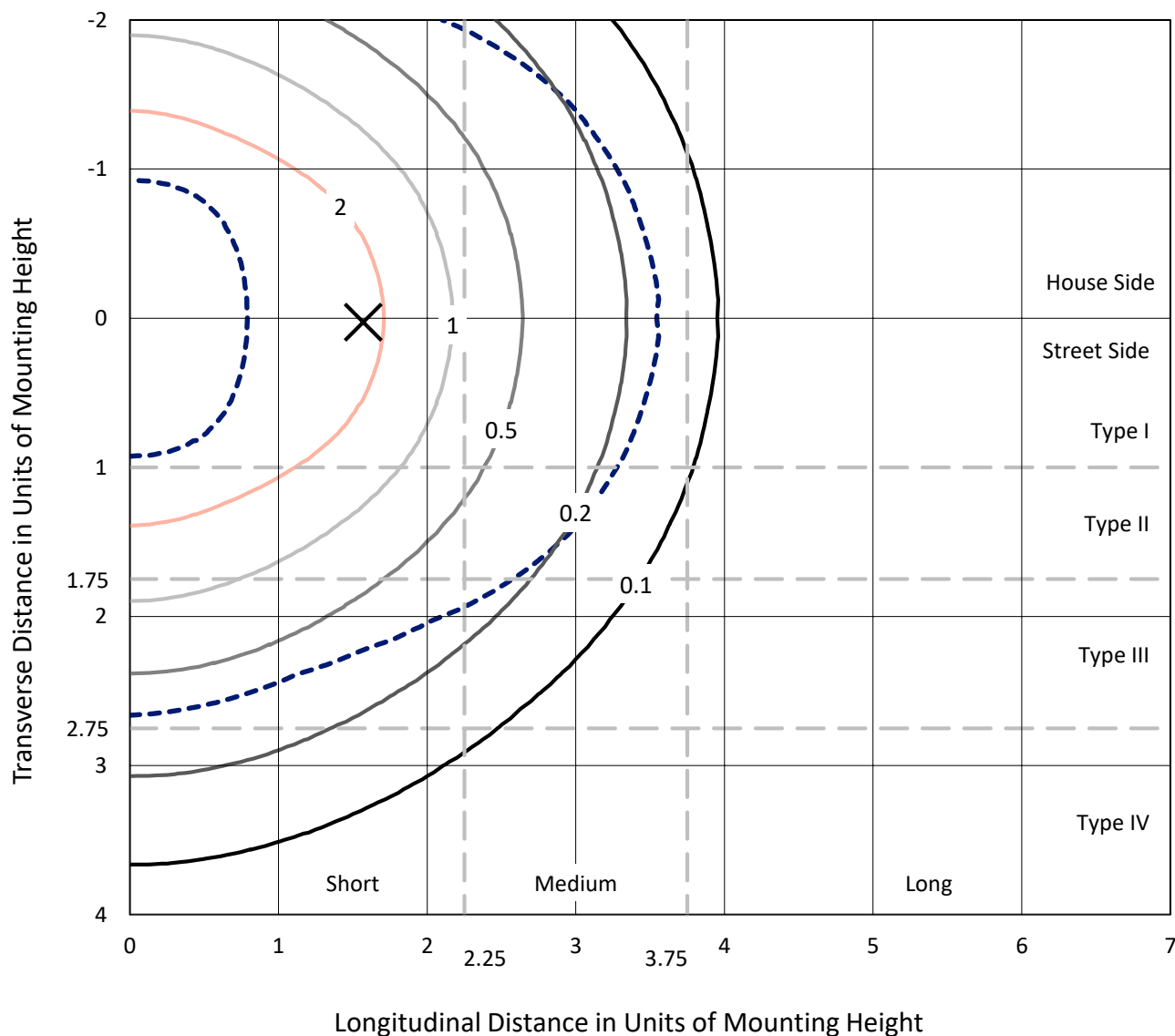


REPORT NUMBER: P198145

CATALOG NUMBER: TT-C4-LED-E1-RW-SG-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

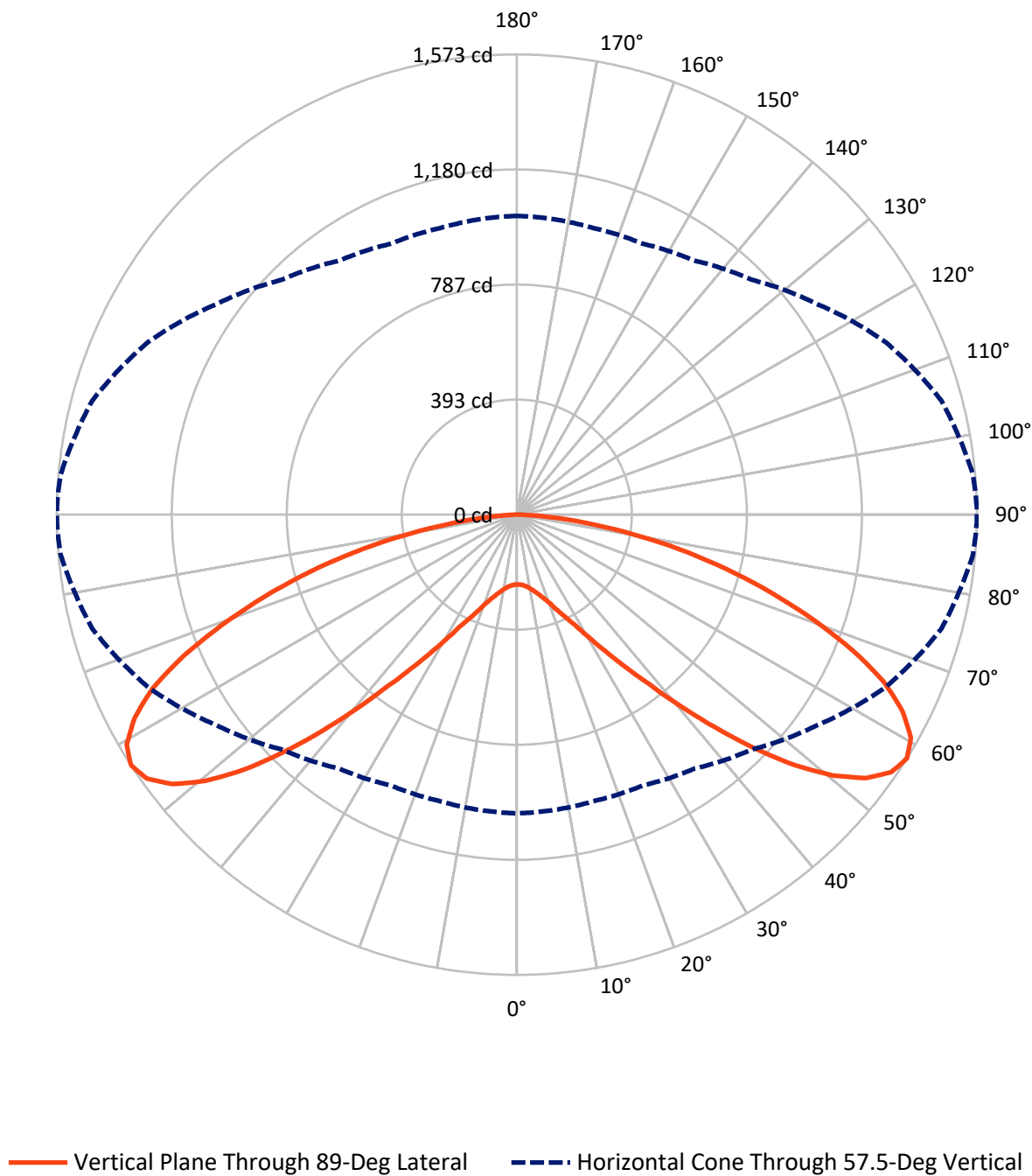


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P198145

CATALOG NUMBER: TT-C4-LED-E1-RW-SG-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P198145

CATALOG NUMBER: TT-C4-LED-E1-RW-SG-8030

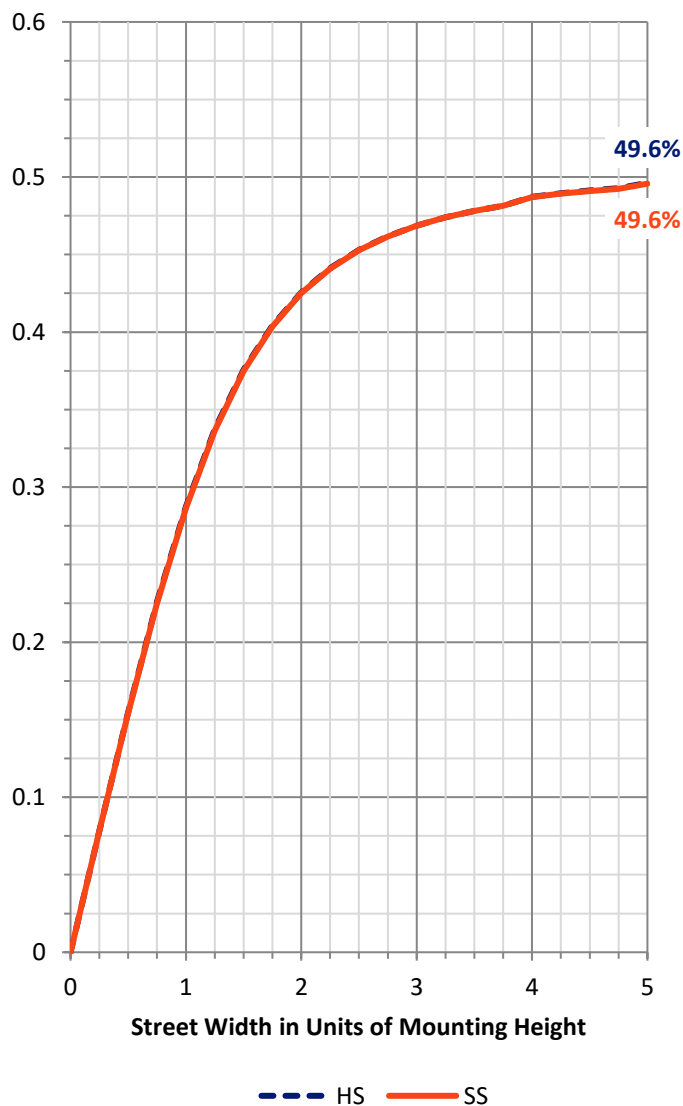
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2146.9	0.0	2146.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2146.9	0.0	2146.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	4293.9	0.0	4293.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.7	0.6
10°-20°	82.7	1.9
20°-30°	185.2	4.3
30°-40°	383.3	8.9
40°-50°	727.6	16.9
50°-60°	1064.6	24.8
60°-70°	1061.4	24.7
70°-80°	631.8	14.7
80°-90°	133.6	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°	4293.9	100.0
0°-180°	4293.9	100.0

Coefficient of Utilization



REPORT NUMBER: P198145

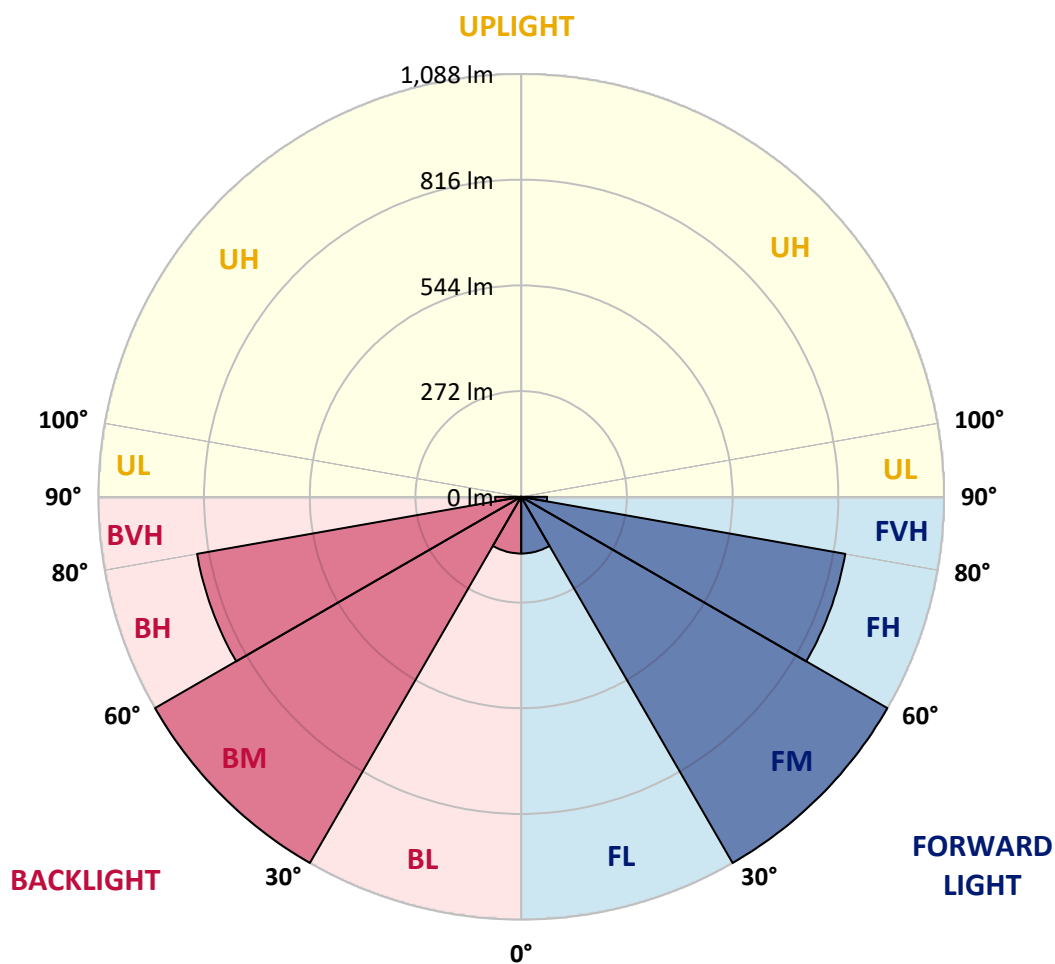
CATALOG NUMBER: TT-C4-LED-E1-RW-SG-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	145.8	3.4			
FM	(30°-60°)	1087.8	25.3			
FH	(60°-80°)	846.6	19.7			G1/1800
FVH	(80°-90°)	66.8	1.6			G1/100
BL	(0°-30°)	145.8	3.4	B1/500		
BM	(30°-60°)	1087.8	25.3	B2/2500		
BH	(60°-80°)	846.6	19.7	B2/1000		G2/1000
BVH	(80°-90°)	66.8	1.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



REPORT NUMBER: P198145

CATALOG NUMBER: TT-C4-LED-E1-RW-SG-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5
2.5°	240.3	240.3	240.3	240.3	239.4	239.4	239.4	239.4	239.4	239.4	239.4
5°	243.9	243.9	243.0	243.9	243.0	243.0	243.0	243.0	243.0	243.0	243.0
7.5°	249.2	249.2	249.2	249.2	249.2	249.2	248.3	249.2	248.3	248.3	248.3
10°	259.0	258.2	259.0	258.2	258.2	257.3	257.3	257.3	257.3	257.3	257.3
12.5°	271.6	271.6	271.6	270.7	269.8	269.8	268.9	268.9	268.9	268.0	268.9
15°	288.5	289.4	286.7	285.8	285.8	284.1	283.2	284.1	283.2	282.3	283.2
17.5°	309.1	310.0	308.2	306.4	304.6	303.7	302.8	301.9	301.9	301.9	301.0
20°	335.9	335.9	334.1	330.5	327.8	326.0	326.0	325.1	325.1	326.0	323.4
22.5°	366.2	365.3	363.6	361.8	358.2	354.6	352.8	351.9	351.9	353.7	354.6
25°	403.8	404.6	399.3	395.7	392.1	385.9	385.0	385.9	386.8	386.8	388.6
27.5°	442.2	443.9	439.5	434.1	428.8	426.1	424.3	426.1	427.9	430.5	429.7
30°	487.7	486.8	485.9	477.9	471.6	469.0	470.7	476.1	480.6	486.8	487.7
32.5°	536.8	538.6	532.4	526.1	523.4	520.8	523.4	535.1	547.6	551.1	555.6
35°	594.9	591.3	587.8	583.3	578.8	578.8	592.2	605.6	625.3	638.7	638.7
37.5°	653.9	651.2	644.9	638.7	638.7	647.6	661.0	694.1	722.6	742.3	734.3
40°	714.6	711.0	709.2	702.1	703.0	724.4	753.0	794.1	835.2	862.9	857.5
42.5°	776.2	777.1	770.9	768.2	776.2	800.4	850.4	905.8	957.6	992.4	993.3
45°	839.7	839.7	835.2	833.4	848.6	885.2	947.7	1023.7	1093.3	1133.5	1138.0
47.5°	897.7	896.8	893.3	892.4	918.3	962.0	1040.6	1138.0	1223.8	1268.4	1280.0
50°	947.7	948.6	943.3	947.7	971.0	1029.0	1123.7	1241.6	1339.9	1396.2	1401.5
52.5°	987.0	987.9	981.7	985.3	1016.5	1083.5	1188.9	1321.1	1428.3	1488.2	1495.3
55°	1013.8	1010.3	1005.8	1011.2	1046.9	1121.0	1236.3	1373.8	1485.5	1548.0	1553.4
57.5°	1021.0	1018.3	1013.8	1021.0	1059.4	1135.3	1254.1	1392.6	1503.4	1565.9	1573.0
60°	1010.3	1010.3	1004.9	1013.0	1051.4	1125.5	1241.6	1375.6	1481.0	1538.2	1548.0
62.5°	982.6	982.6	976.3	982.6	1019.2	1088.0	1198.8	1322.9	1418.5	1468.5	1480.1
65°	930.8	929.9	926.3	928.1	958.5	1023.7	1124.6	1237.2	1320.2	1364.9	1380.1
67.5°	855.7	853.1	849.5	853.1	875.4	933.5	1026.4	1124.6	1193.4	1236.3	1239.8
70°	760.2	757.5	753.0	751.2	774.5	820.9	895.9	982.6	1039.8	1071.0	1074.6
72.5°	646.7	650.3	646.7	641.4	656.5	697.6	760.2	826.3	873.6	902.2	906.7
75°	535.1	536.0	527.0	525.2	536.8	562.8	613.7	664.6	705.7	729.8	736.9
77.5°	414.5	414.5	406.4	402.0	408.2	430.5	465.4	506.5	540.4	555.6	568.1
80°	298.3	298.3	291.2	280.5	286.7	298.3	329.6	351.9	378.7	395.7	397.5
82.5°	186.7	184.0	185.8	177.8	179.5	183.1	202.8	218.0	234.0	243.0	243.9
85°	97.4	93.8	92.0	87.5	84.9	91.1	100.0	110.8	114.3	122.4	119.7
87.5°	30.4	28.6	27.7	27.7	25.0	26.8	27.7	29.5	33.9	33.9	35.7
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: P198145

CATALOG NUMBER: TT-C4-LED-E1-RW-SG-8030

CANDELA DISTRIBUTION (continued):

	90°
0°	238.5
2.5°	239.4
5°	243.0
7.5°	248.3
10°	257.3
12.5°	268.0
15°	283.2
17.5°	301.9
20°	323.4
22.5°	351.9
25°	386.8
27.5°	427.9
30°	486.8
32.5°	552.9
35°	633.3
37.5°	743.2
40°	856.6
42.5°	999.6
45°	1138.0
47.5°	1280.0
50°	1398.8
52.5°	1492.6
55°	1556.1
57.5°	1573.0
60°	1545.3
62.5°	1477.4
65°	1378.3
67.5°	1239.8
70°	1079.9
72.5°	904.0
75°	728.9
77.5°	564.5
80°	397.5
82.5°	251.0
85°	119.7
87.5°	38.4
90°	0.0

(END OF REPORT)