

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: P833938

Luminaire Tested: **TTN-D3-740-U-WQ-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833938
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G3-2308-121-4) AND
Test Lab: INNOVATION CENTER
Issue Date: 5/15/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TTN-D3-740-U-WQ-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7358.9 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U3 - G2

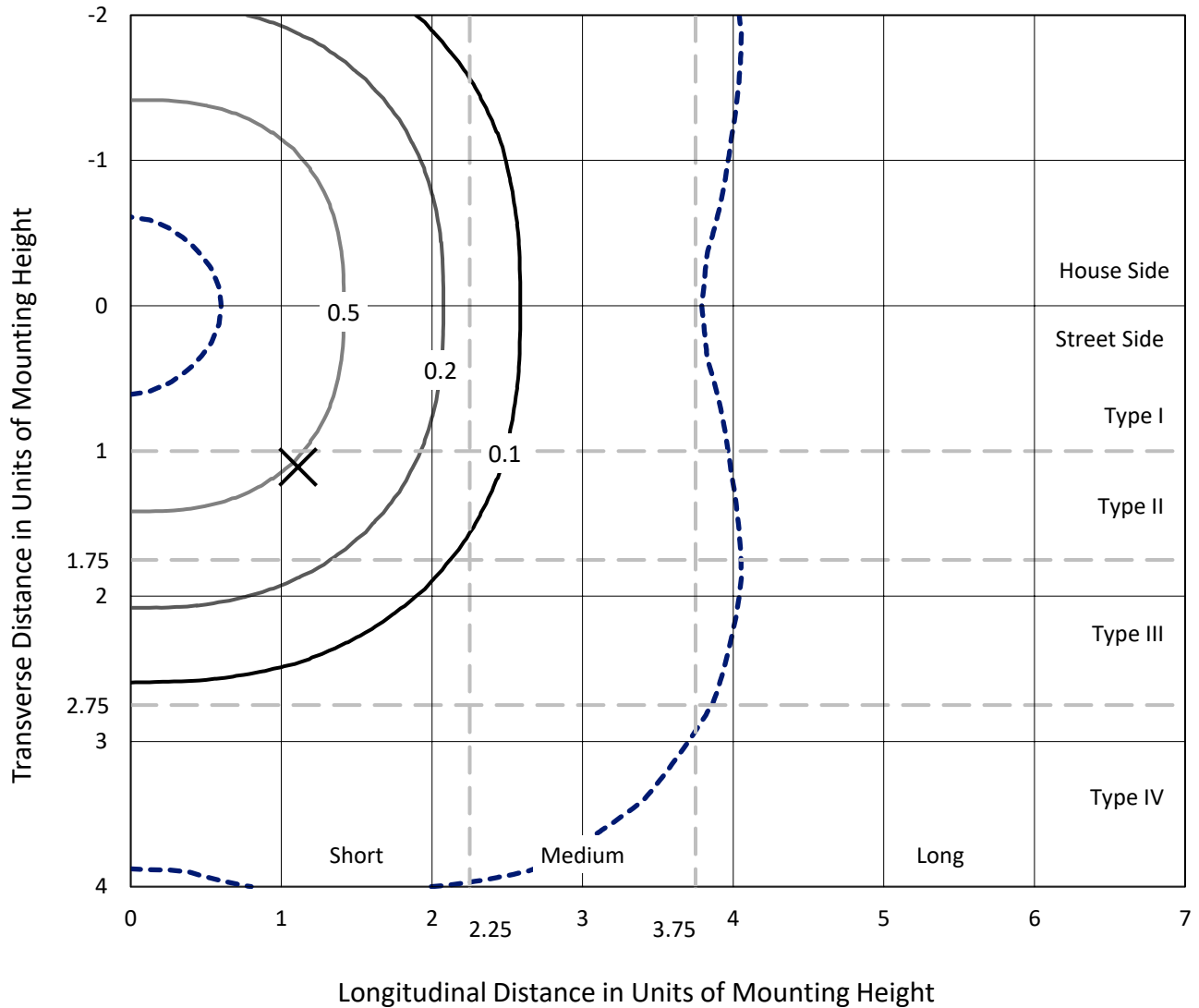
Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

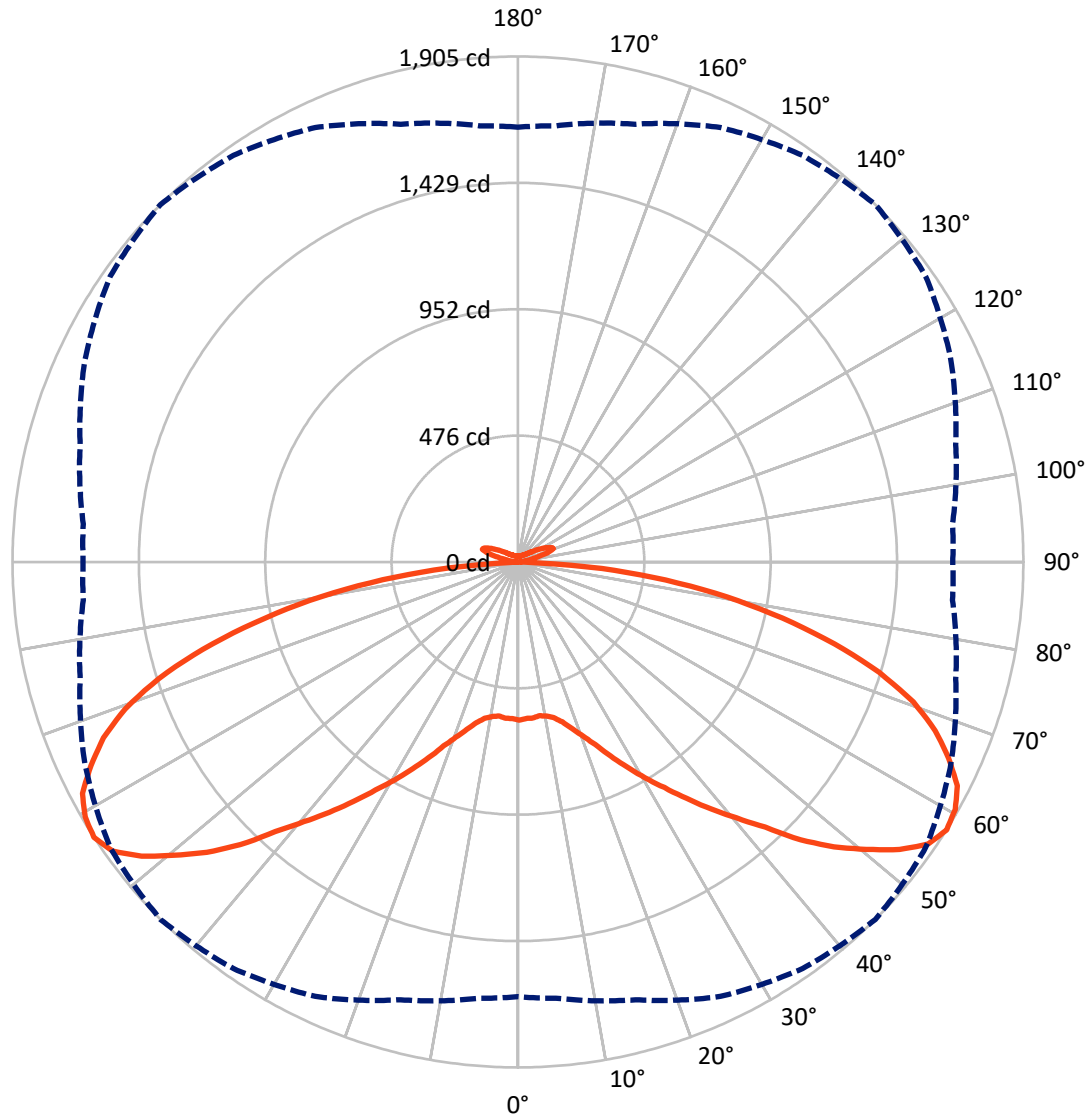
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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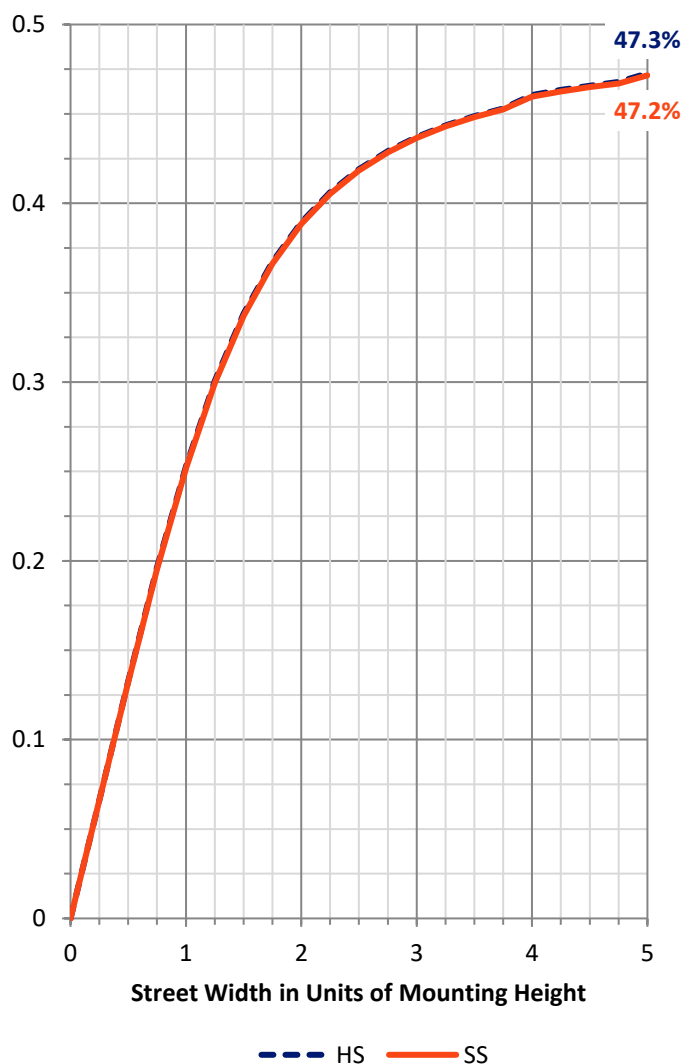
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3517.7	161.7	3679.4
	% Fixture	47.8	2.2	50.0
Street Side	Lumens	3517.7	161.7	3679.4
	% Fixture	47.8	2.2	50.0
Total	Lumens	7035.4	323.4	7358.9
	% Fixture	95.6	4.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	0.8
10°-20°	178.9	2.4
20°-30°	375.3	5.1
30°-40°	680.9	9.3
40°-50°	1109.9	15.1
50°-60°	1553.6	21.1
60°-70°	1621.9	22.0
70°-80°	1158.8	15.7
80°-90°	300.3	4.1
90°-100°	7.2	0.1
100°-110°	73.4	1.0
110°-120°	107.3	1.5
120°-130°	62.3	0.8
130°-140°	33.0	0.4
140°-150°	19.6	0.3
150°-160°	12.1	0.2
160°-170°	6.6	0.1
170°-180°	2.1	0.0
0°-90°	7035.4	95.6
0°-180°	7358.9	100.0

Coefficient of Utilization



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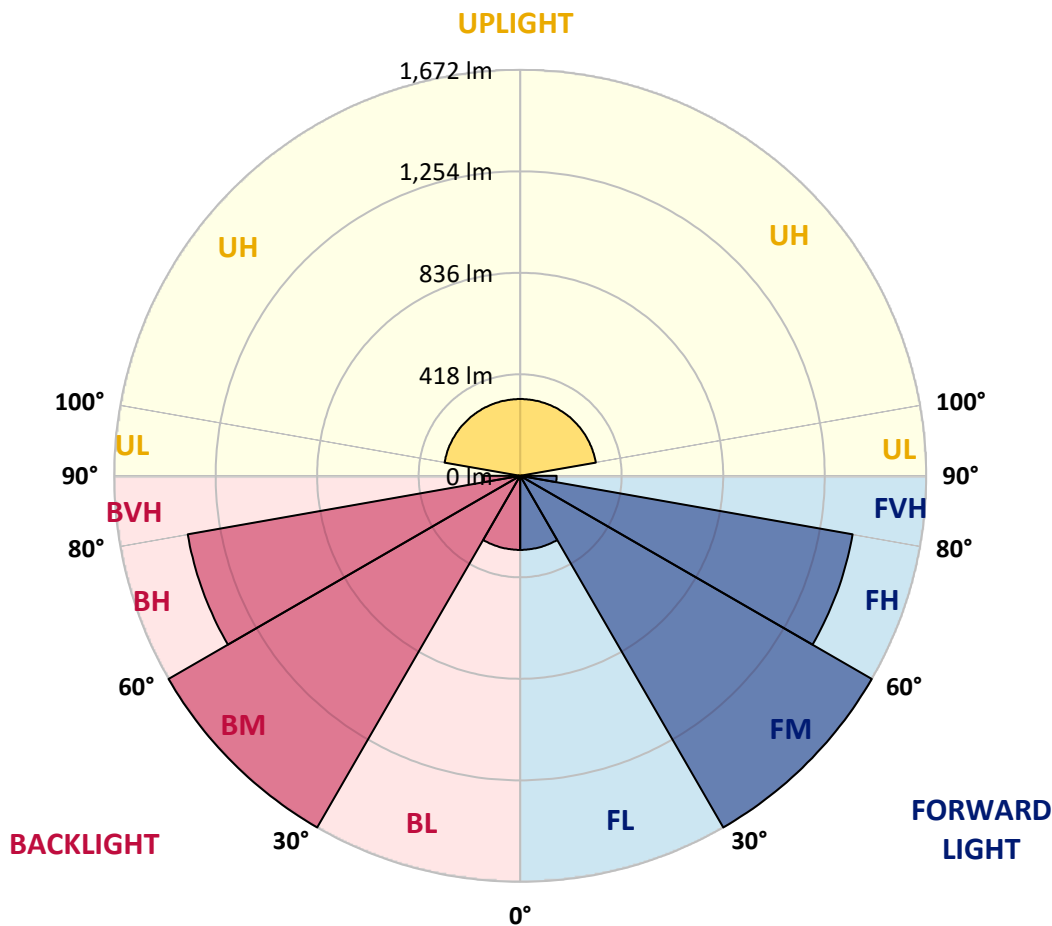
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	305.1	4.1			
FM (30°-60°)	1672.2	22.7			
FH (60°-80°)	1390.3	18.9			G1/1800
FVH (80°-90°)	150.1	2.0			G2/225
BL (0°-30°)	305.1	4.1	B1/500		
BM (30°-60°)	1672.2	22.7	B2/2500		
BH (60°-80°)	1390.3	18.9	B3/2500		G1/1800
BVH (80°-90°)	150.1	2.0			G2/225
UL (90°-100°)	7.2	0.1		U1/10	
UH (100°-180°)	316.2	4.3		U3/500	

BUG Rating: B3-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	596.3	596.3	596.3	596.3	596.3	596.3	596.3	596.3	596.3	596.3	596.3
2.5°	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5
5°	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5
7.5°	578.9	578.9	584.7	584.7	584.7	584.7	584.7	584.7	584.7	584.7	584.7
10°	578.9	578.9	584.7	584.7	590.5	590.5	590.5	584.7	584.7	578.9	578.9
12.5°	590.5	590.5	590.5	596.3	602.1	602.1	602.1	596.3	596.3	590.5	590.5
15°	607.9	613.7	613.7	619.5	625.3	625.3	625.3	619.5	619.5	613.7	613.7
17.5°	642.6	642.6	642.6	648.4	654.2	660.0	660.0	648.4	648.4	642.6	648.4
20°	677.4	683.2	683.2	688.9	694.7	700.5	694.7	688.9	683.2	683.2	683.2
22.5°	729.5	729.5	735.3	735.3	746.8	746.8	746.8	735.3	735.3	735.3	735.3
25°	787.4	787.4	793.2	798.9	810.5	810.5	804.7	793.2	793.2	793.2	798.9
27.5°	856.8	856.8	862.6	862.6	874.2	874.2	868.4	862.6	862.6	862.6	868.4
30°	920.5	920.5	932.1	937.9	943.7	943.7	943.7	932.1	932.1	926.3	926.3
32.5°	978.4	984.2	990.0	1007.4	1018.9	1013.2	1018.9	1007.4	995.8	990.0	990.0
35°	1042.1	1047.9	1059.5	1076.8	1094.2	1094.2	1094.2	1076.8	1065.3	1053.7	1059.5
37.5°	1117.4	1117.4	1134.7	1152.1	1175.3	1181.0	1175.3	1157.9	1140.5	1128.9	1128.9
40°	1198.4	1198.4	1215.8	1233.2	1262.1	1267.9	1262.1	1238.9	1215.8	1210.0	1210.0
42.5°	1279.5	1279.5	1302.6	1320.0	1354.7	1366.3	1354.7	1325.8	1302.6	1285.3	1291.0
45°	1366.3	1372.1	1401.0	1435.8	1476.3	1493.7	1476.3	1441.6	1406.8	1372.1	1372.1
47.5°	1464.7	1464.7	1499.5	1540.0	1586.3	1603.7	1580.5	1545.8	1499.5	1470.5	1470.5
50°	1528.4	1534.2	1580.5	1632.6	1690.5	1702.1	1684.7	1632.6	1580.5	1540.0	1534.2
52.5°	1592.1	1597.9	1650.0	1725.3	1783.1	1800.5	1777.4	1725.3	1650.0	1597.9	1597.9
55°	1632.6	1644.2	1702.1	1783.1	1846.8	1875.8	1841.0	1783.1	1696.3	1638.4	1632.6
57.5°	1638.4	1650.0	1707.9	1806.3	1870.0	1904.7	1875.8	1800.5	1707.9	1644.2	1638.4
60°	1626.8	1632.6	1690.5	1794.7	1870.0	1893.1	1870.0	1788.9	1684.7	1632.6	1621.0
62.5°	1597.9	1609.5	1667.4	1754.2	1841.0	1858.4	1835.3	1748.4	1661.6	1597.9	1586.3
65°	1505.3	1516.8	1603.7	1690.5	1765.8	1783.1	1765.8	1690.5	1597.9	1505.3	1493.7
67.5°	1401.0	1406.8	1493.7	1597.9	1667.4	1696.3	1667.4	1603.7	1487.9	1401.0	1389.5
70°	1291.0	1296.8	1366.3	1476.3	1545.8	1580.5	1551.6	1482.1	1360.5	1285.3	1279.5
72.5°	1163.7	1163.7	1233.2	1320.0	1389.5	1424.2	1401.0	1314.2	1221.6	1146.3	1134.7
75°	990.0	995.8	1071.0	1134.7	1210.0	1233.2	1210.0	1140.5	1053.7	978.4	966.8
77.5°	810.5	816.3	880.0	932.1	1001.6	1018.9	1001.6	943.7	862.6	798.9	793.2
80°	613.7	619.5	671.6	717.9	775.8	798.9	781.6	723.7	660.0	602.1	584.7
82.5°	399.5	405.3	457.4	492.1	544.2	561.6	550.0	497.9	445.8	387.9	382.1
85°	179.5	185.3	231.6	260.5	301.1	318.4	306.8	260.5	220.0	167.9	156.3
87.5°	17.4	17.4	17.4	17.4	17.4	23.2	23.2	17.4	17.4	17.4	17.4
90°	2.8	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8
92.5°	2.8	2.8	2.8	3.9	4.4	3.9	4.4	3.3	3.3	2.8	2.8
95°	3.3	3.3	3.9	5.0	6.1	6.6	6.6	3.9	3.9	3.3	3.3
97.5°	4.4	5.0	5.0	6.1	10.0	18.3	11.1	5.5	5.5	5.0	4.4
100°	7.2	7.7	7.7	13.8	29.3	39.3	28.2	14.4	10.5	7.7	7.7
102.5°	23.2	24.3	29.9	44.8	66.4	60.3	50.9	48.1	33.2	26.6	25.5
105°	59.2	58.7	63.1	74.7	93.0	91.3	84.1	76.4	65.8	60.9	60.9
107.5°	78.0	78.0	81.9	91.9	105.7	123.4	125.1	99.0	86.9	81.3	80.8
110°	88.0	88.0	91.3	99.6	117.9	142.8	141.6	122.3	107.3	100.2	99.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	90.2	90.7	95.2	107.9	127.8	138.9	133.9	126.2	119.5	114.0	112.9
115°	93.5	93.5	98.5	110.7	121.7	126.2	120.6	114.5	110.1	107.9	109.0
117.5°	92.4	94.1	95.2	101.8	109.0	112.3	109.6	101.3	97.9	96.8	95.2
120°	85.8	85.8	86.9	90.2	94.1	95.7	94.6	89.1	86.3	85.8	84.7
122.5°	76.4	76.9	76.4	78.0	80.8	82.4	81.3	76.9	75.8	75.8	74.7
125°	67.0	67.0	66.4	67.5	69.2	68.6	69.2	67.0	66.4	66.4	65.8
127.5°	60.3	59.8	58.7	59.2	59.8	59.8	60.3	58.1	58.7	59.2	58.7
130°	53.7	53.7	52.6	52.6	52.6	51.5	52.6	51.5	52.0	52.6	53.1
132.5°	47.6	47.6	45.9	45.4	45.4	45.4	45.9	45.4	46.5	47.6	47.6
135°	42.6	42.6	40.9	41.5	41.5	40.9	41.5	40.9	42.1	42.6	42.6
137.5°	38.7	38.7	37.6	37.6	37.6	37.1	37.6	37.6	38.2	39.3	39.8
140°	35.4	35.4	34.9	34.9	34.3	34.9	34.9	34.9	35.4	36.0	36.0
142.5°	33.8	33.2	32.6	32.1	32.6	32.6	32.6	32.1	32.6	33.8	33.8
145°	31.0	31.0	30.4	30.4	30.4	31.0	30.4	30.4	31.0	31.0	31.5
147.5°	29.3	29.3	28.8	29.3	29.3	29.3	29.3	28.8	29.3	29.3	29.9
150°	28.8	28.2	27.7	28.2	28.2	27.7	27.7	27.7	27.7	28.2	28.2
152.5°	27.1	27.1	26.6	27.1	26.6	26.6	26.6	26.6	26.6	27.1	27.7
155°	26.0	26.0	25.5	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
157.5°	24.9	25.5	24.9	24.9	24.9	24.9	24.9	24.9	24.9	25.5	25.5
160°	24.3	24.3	24.3	24.3	23.8	23.8	23.8	24.3	24.3	24.3	24.9
162.5°	23.8	23.8	23.8	23.8	23.2	23.2	23.2	23.2	23.8	23.8	24.3
165°	23.8	23.2	23.2	23.2	22.7	22.7	22.7	22.7	23.2	23.8	23.2
167.5°	22.7	22.7	22.7	22.7	22.7	22.1	22.1	22.7	22.7	22.7	23.2
170°	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.7
172.5°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.7	22.7
175°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.7	22.7	22.7	22.1
177.5°	22.7	22.7	22.7	22.7	22.1	22.7	22.7	22.7	22.7	22.7	22.7
180°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7

(END OF REPORT)