

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: P833899

Luminaire Tested: **TTN-D3-735-U-RW-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833899
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-D3-735-U-RW-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6805.9 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B3 - U3 - G3

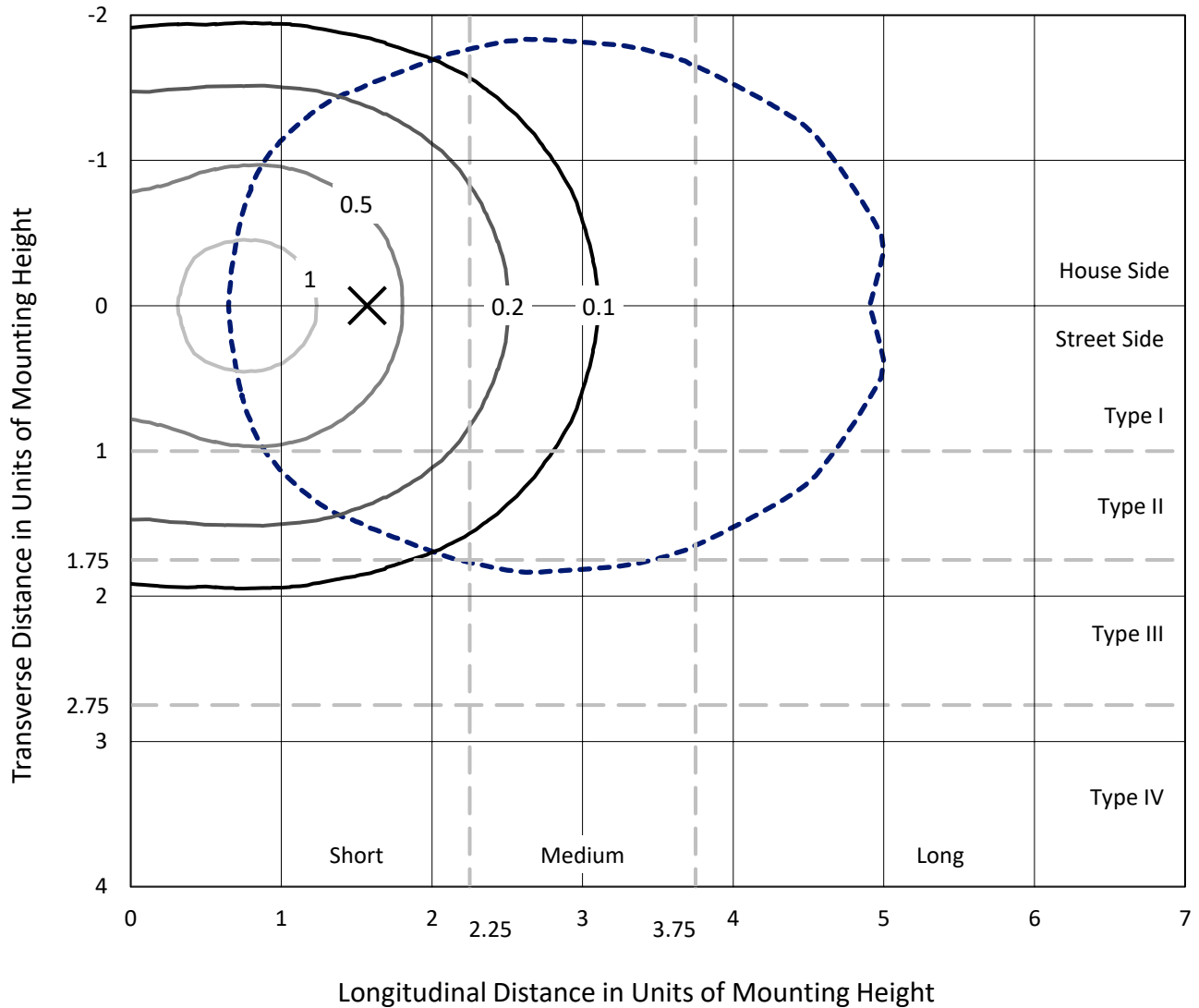
Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

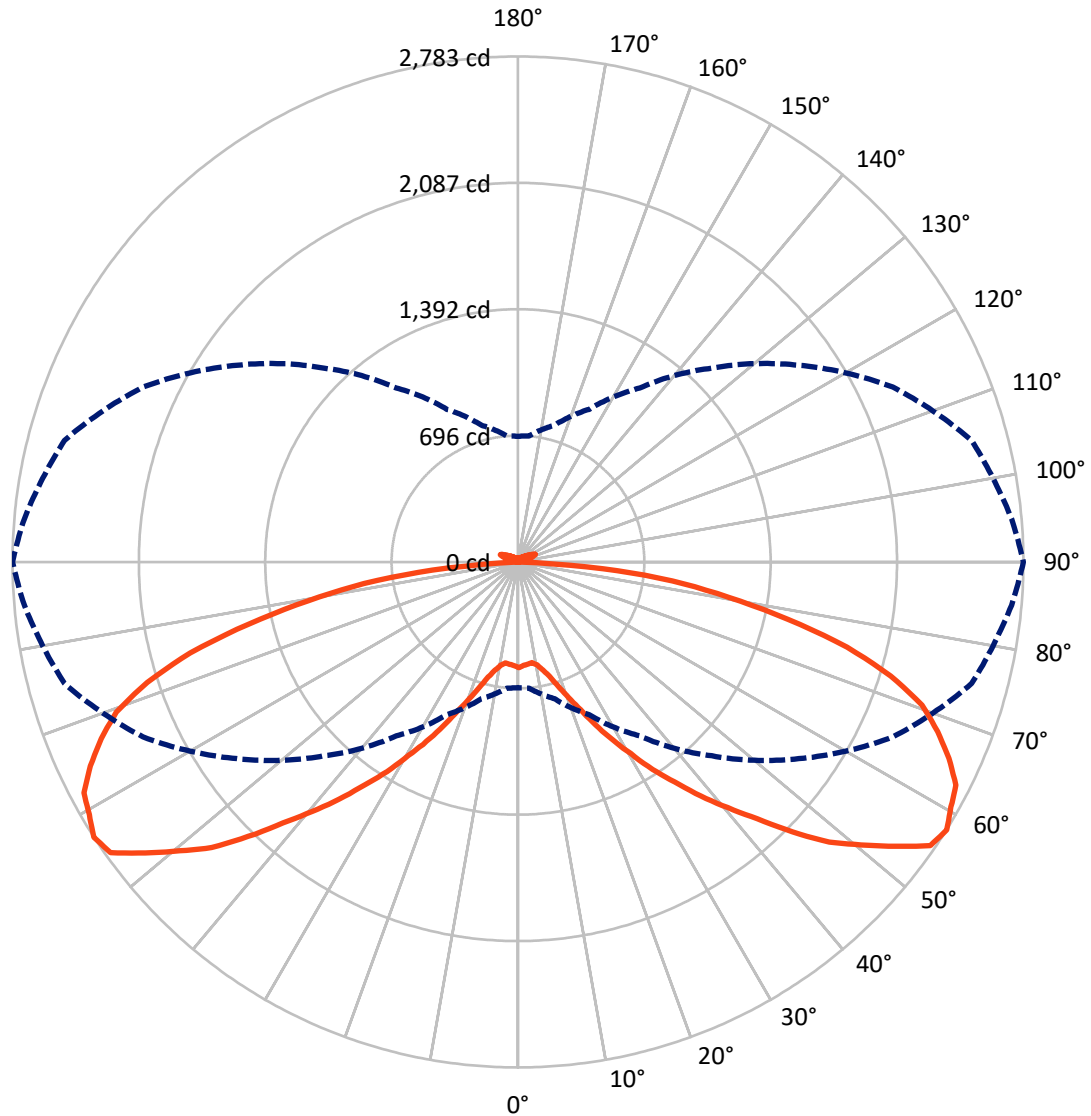
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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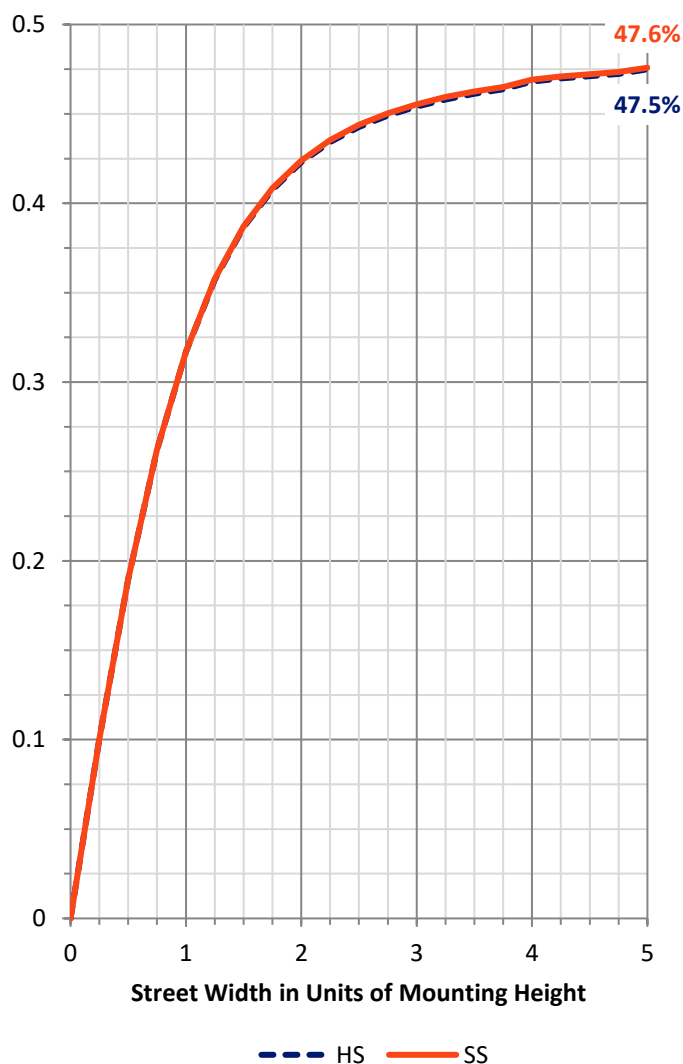
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3252.7	150.2	3402.9
	% Fixture	47.8	2.2	50.0
Street Side	Lumens	3252.7	150.2	3402.9
	% Fixture	47.8	2.2	50.0
Total	Lumens	6505.4	300.5	6805.9
	% Fixture	95.6	4.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	0.8
10°-20°	174.4	2.6
20°-30°	364.0	5.3
30°-40°	652.7	9.6
40°-50°	1043.0	15.3
50°-60°	1427.9	21.0
60°-70°	1472.9	21.6
70°-80°	1047.4	15.4
80°-90°	268.5	3.9
90°-100°	6.7	0.1
100°-110°	68.2	1.0
110°-120°	99.6	1.5
120°-130°	57.8	0.8
130°-140°	30.6	0.5
140°-150°	18.2	0.3
150°-160°	11.2	0.2
160°-170°	6.1	0.1
170°-180°	2.0	0.0
0°-90°	6505.4	95.6
0°-180°	6805.9	100.0

Coefficient of Utilization



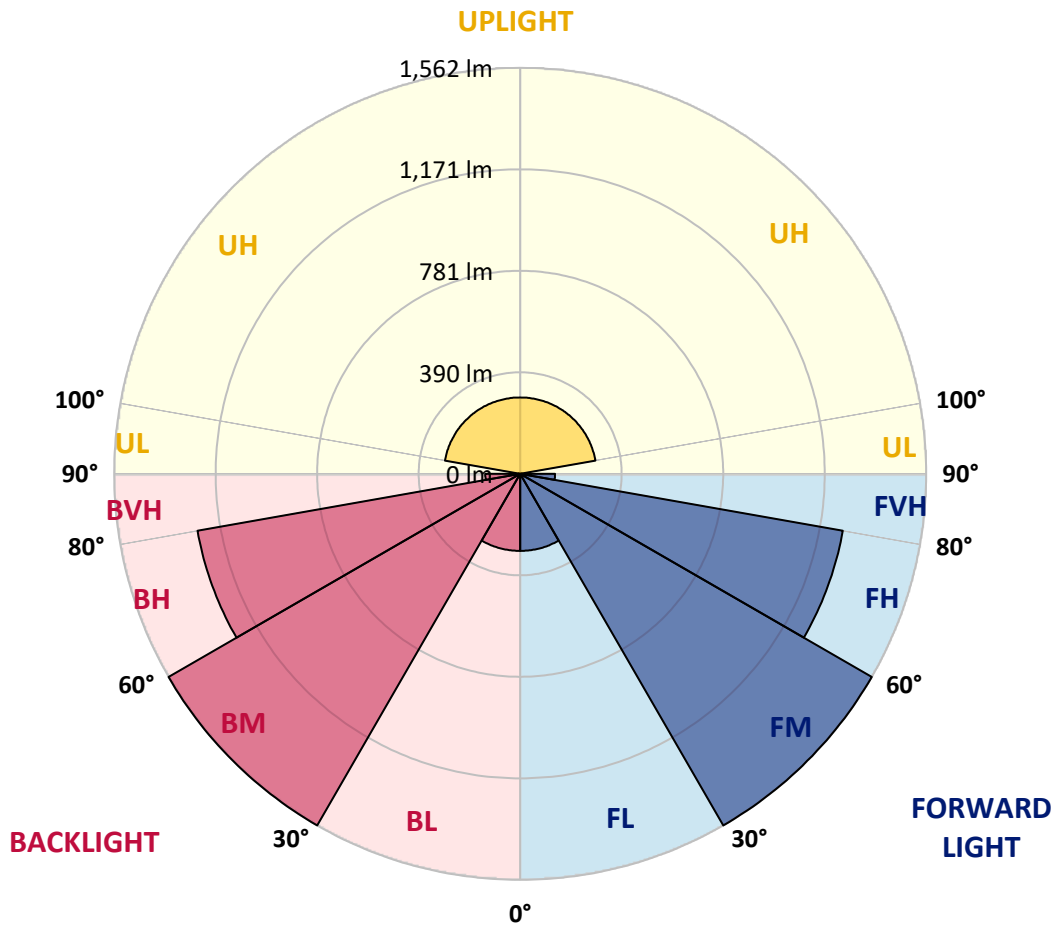
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	296.5	4.4			
FM (30°-60°)	1561.8	22.9			
FH (60°-80°)	1260.1	18.5			G1/1800
FVH (80°-90°)	134.3	2.0			G2/225
BL (0°-30°)	296.5	4.4	B1/500		
BM (30°-60°)	1561.8	22.9	B2/2500		
BH (60°-80°)	1260.1	18.5	B3/2500		G3/2500
BVH (80°-90°)	134.3	2.0			G2/225
UL (90°-100°)	6.7	0.1		U1/10	
UH (100°-180°)	293.8	4.3		U3/500	

BUG Rating: B3-U3-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9
2.5°	581.9	581.9	576.4	576.4	576.4	570.9	570.9	570.9	570.9	565.4	570.9
5°	581.9	581.9	581.9	581.9	576.4	570.9	570.9	570.9	565.4	565.4	565.4
7.5°	576.4	576.4	576.4	576.4	570.9	565.4	565.4	565.4	559.9	559.9	559.9
10°	570.9	576.4	570.9	570.9	565.4	565.4	570.9	570.9	576.4	576.4	576.4
12.5°	565.4	565.4	565.4	570.9	570.9	576.4	587.4	598.4	603.9	609.3	609.3
15°	565.4	565.4	570.9	576.4	587.4	598.4	614.8	631.3	642.3	653.3	653.3
17.5°	565.4	565.4	570.9	587.4	603.9	625.8	653.3	675.2	697.2	713.6	719.1
20°	565.4	565.4	576.4	598.4	631.3	664.2	702.7	735.6	768.5	796.0	796.0
22.5°	570.9	576.4	587.4	614.8	664.2	713.6	763.1	812.5	850.9	883.8	883.8
25°	581.9	581.9	598.4	642.3	702.7	768.5	839.9	900.3	949.7	993.6	993.6
27.5°	587.4	592.9	614.8	669.7	746.6	828.9	927.7	999.1	1065.0	1103.4	1108.9
30°	598.4	603.9	636.8	691.7	785.0	889.3	1004.6	1103.4	1174.8	1213.2	1224.2
32.5°	603.9	609.3	653.3	719.1	823.4	944.2	1076.0	1202.2	1301.0	1345.0	1361.4
35°	620.3	625.8	669.7	746.6	867.4	1004.6	1158.3	1306.5	1421.8	1476.7	1487.7
37.5°	636.8	642.3	686.2	774.0	911.3	1070.5	1246.1	1416.3	1548.1	1613.9	1635.9
40°	647.8	653.3	702.7	807.0	960.7	1141.8	1345.0	1531.6	1679.8	1762.2	1778.6
42.5°	664.2	669.7	724.6	834.4	1004.6	1213.2	1449.3	1657.9	1817.1	1910.4	1932.3
45°	680.7	686.2	746.6	867.4	1054.0	1290.1	1553.6	1806.1	1987.2	2097.0	2119.0
47.5°	697.2	702.7	768.5	900.3	1103.4	1366.9	1663.3	1937.8	2157.4	2261.7	2305.6
50°	702.7	713.6	779.5	922.3	1136.3	1432.8	1756.7	2069.6	2300.1	2437.4	2448.4
52.5°	708.2	719.1	790.5	938.7	1163.8	1482.2	1833.5	2179.4	2448.4	2613.1	2602.1
55°	713.6	713.6	790.5	938.7	1174.8	1515.1	1888.4	2250.7	2547.2	2678.9	2755.8
57.5°	691.7	697.2	779.5	927.7	1169.3	1509.6	1888.4	2278.2	2585.6	2728.3	2783.2
60°	664.2	675.2	752.1	900.3	1147.3	1493.2	1877.4	2267.2	2602.1	2755.8	2739.3
62.5°	625.8	647.8	713.6	861.9	1114.4	1454.7	1861.0	2239.8	2563.6	2722.8	2706.4
65°	581.9	603.9	664.2	823.4	1043.0	1361.4	1773.1	2184.9	2459.3	2640.5	2607.6
67.5°	538.0	554.4	614.8	757.6	960.7	1262.6	1657.9	2064.1	2311.1	2508.7	2492.3
70°	488.6	494.1	554.4	680.7	878.3	1163.8	1548.1	1893.9	2179.4	2327.6	2360.5
72.5°	428.2	428.2	488.6	598.4	779.5	1032.0	1399.8	1701.8	1970.8	2097.0	2146.4
75°	351.3	356.8	406.2	505.0	653.3	883.8	1191.2	1498.7	1723.7	1855.5	1872.0
77.5°	274.5	280.0	318.4	400.7	527.0	713.6	982.6	1224.2	1438.3	1553.6	1520.6
80°	197.6	203.1	230.6	290.9	389.8	532.5	757.6	971.7	1125.4	1218.7	1174.8
82.5°	120.8	126.3	142.7	181.2	247.0	345.8	516.0	675.2	796.0	872.8	856.4
85°	60.4	60.4	71.4	82.3	104.3	153.7	247.0	340.4	433.7	488.6	472.1
87.5°	11.0	16.5	16.5	16.5	16.5	11.0	16.5	16.5	16.5	27.4	11.0
90°	2.6	2.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.6	2.6
92.5°	2.6	2.6	2.6	3.6	4.1	3.6	4.1	3.1	3.1	2.6	2.6
95°	3.1	3.1	3.6	4.6	5.7	6.2	6.2	3.6	3.6	3.1	3.1
97.5°	4.1	4.6	4.6	5.7	9.3	17.0	10.3	5.1	5.1	4.6	4.1
100°	6.7	7.2	7.2	12.9	27.2	36.5	26.2	13.4	9.8	7.2	7.2
102.5°	21.6	22.6	27.8	41.6	61.7	56.0	47.3	44.7	30.8	24.7	23.6
105°	55.0	54.5	58.6	69.4	86.4	84.8	78.1	70.9	61.2	56.5	56.5
107.5°	72.5	72.5	76.1	85.3	98.2	114.6	116.2	92.0	80.7	75.6	75.0
110°	81.7	81.7	84.8	92.5	109.5	132.6	131.6	113.6	99.7	93.0	92.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	83.8	84.3	88.4	100.2	118.7	129.0	124.4	117.2	111.0	105.9	104.9
115°	86.9	86.9	91.5	102.8	113.1	117.2	112.1	106.4	102.3	100.2	101.3
117.5°	85.8	87.4	88.4	94.6	101.3	104.4	101.8	94.1	91.0	90.0	88.4
120°	79.7	79.7	80.7	83.8	87.4	88.9	87.9	82.8	80.2	79.7	78.6
122.5°	70.9	71.5	70.9	72.5	75.0	76.6	75.6	71.5	70.4	70.4	69.4
125°	62.2	62.2	61.7	62.7	64.3	63.7	64.3	62.2	61.7	61.7	61.2
127.5°	56.0	55.5	54.5	55.0	55.5	55.5	56.0	54.0	54.5	55.0	54.5
130°	49.9	49.9	48.8	48.8	48.8	47.8	48.8	47.8	48.3	48.8	49.3
132.5°	44.2	44.2	42.7	42.2	42.2	42.2	42.7	42.2	43.2	44.2	44.2
135°	39.6	39.6	38.0	38.6	38.6	38.0	38.6	38.0	39.1	39.6	39.6
137.5°	36.0	36.0	35.0	35.0	35.0	34.4	35.0	35.0	35.5	36.5	37.0
140°	32.9	32.9	32.4	32.4	31.9	32.4	32.4	32.4	32.9	33.4	33.4
142.5°	31.4	30.8	30.3	29.8	30.3	30.3	30.3	29.8	30.3	31.4	31.4
145°	28.8	28.8	28.3	28.3	28.3	28.8	28.3	28.3	28.8	28.8	29.3
147.5°	27.2	27.2	26.7	27.2	27.2	27.2	27.2	26.7	27.2	27.2	27.8
150°	26.7	26.2	25.7	26.2	26.2	25.7	25.7	25.7	25.7	26.2	26.2
152.5°	25.2	25.2	24.7	25.2	24.7	24.7	24.7	24.7	24.7	25.2	25.7
155°	24.2	24.2	23.6	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
157.5°	23.1	23.6	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.6	23.6
160°	22.6	22.6	22.6	22.6	22.1	22.1	22.1	22.6	22.6	22.6	23.1
162.5°	22.1	22.1	22.1	22.1	21.6	21.6	21.6	21.6	22.1	22.1	22.6
165°	22.1	21.6	21.6	21.6	21.1	21.1	21.1	21.1	21.6	22.1	21.6
167.5°	21.1	21.1	21.1	21.1	21.1	20.6	20.6	21.1	21.1	21.1	21.6
170°	21.1	21.1	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	21.1
172.5°	21.1	21.1	21.1	21.1	20.6	20.6	20.6	20.6	20.6	21.1	21.1
175°	21.1	21.1	21.1	21.1	20.6	20.6	20.6	21.1	21.1	21.1	20.6
177.5°	21.1	21.1	21.1	21.1	20.6	21.1	21.1	21.1	21.1	21.1	21.1
180°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1

(END OF REPORT)