

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: P834049

Luminaire Tested: **TTN-D3-830-U-RW-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P834049
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-D3-830-U-RW-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6443.9 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B3 - U3 - G3

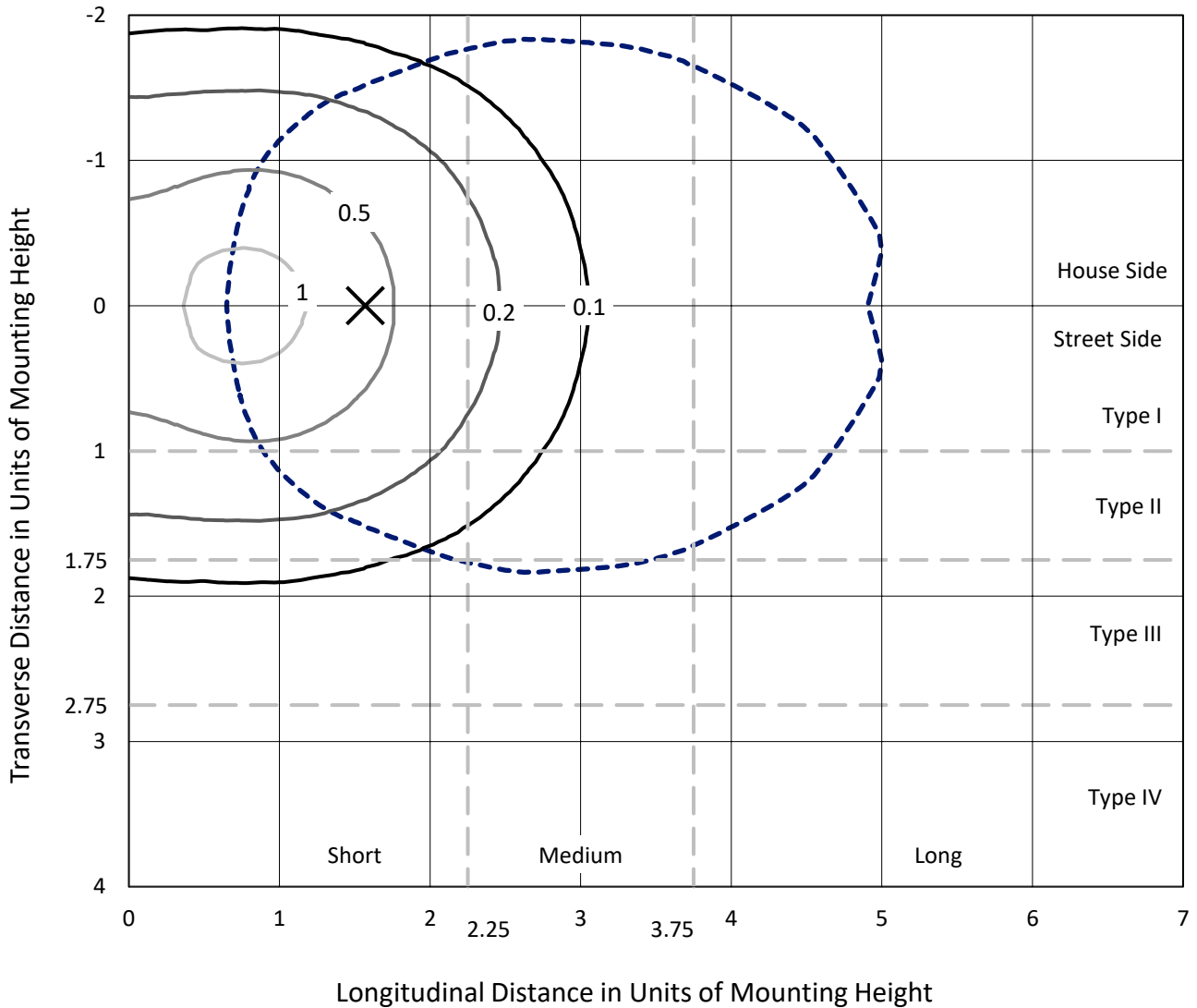
Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

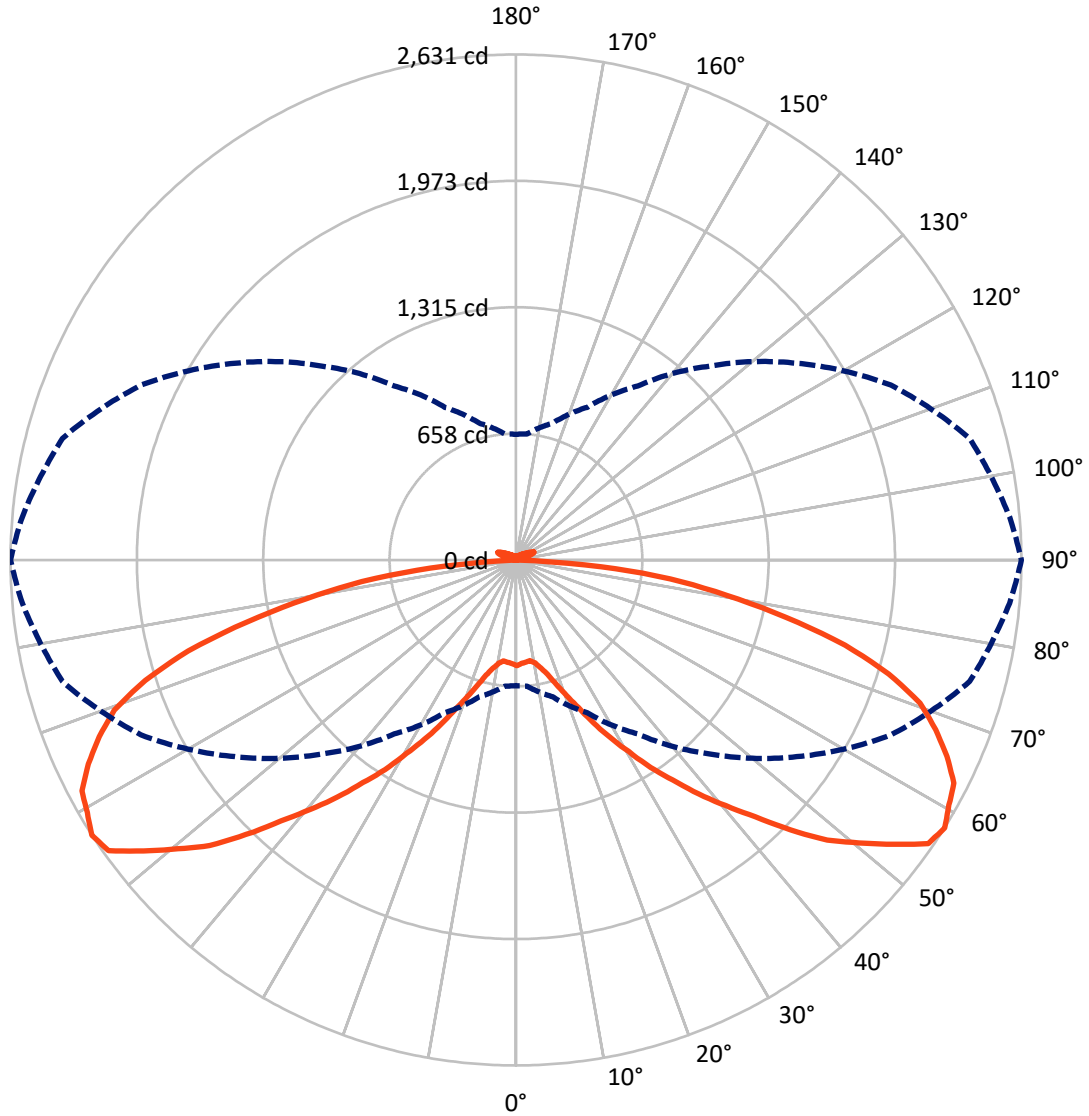
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

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CATALOG NUMBER: TTN-D3-830-U-RW-UPL1

Luminous Intensity Polar Plot



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

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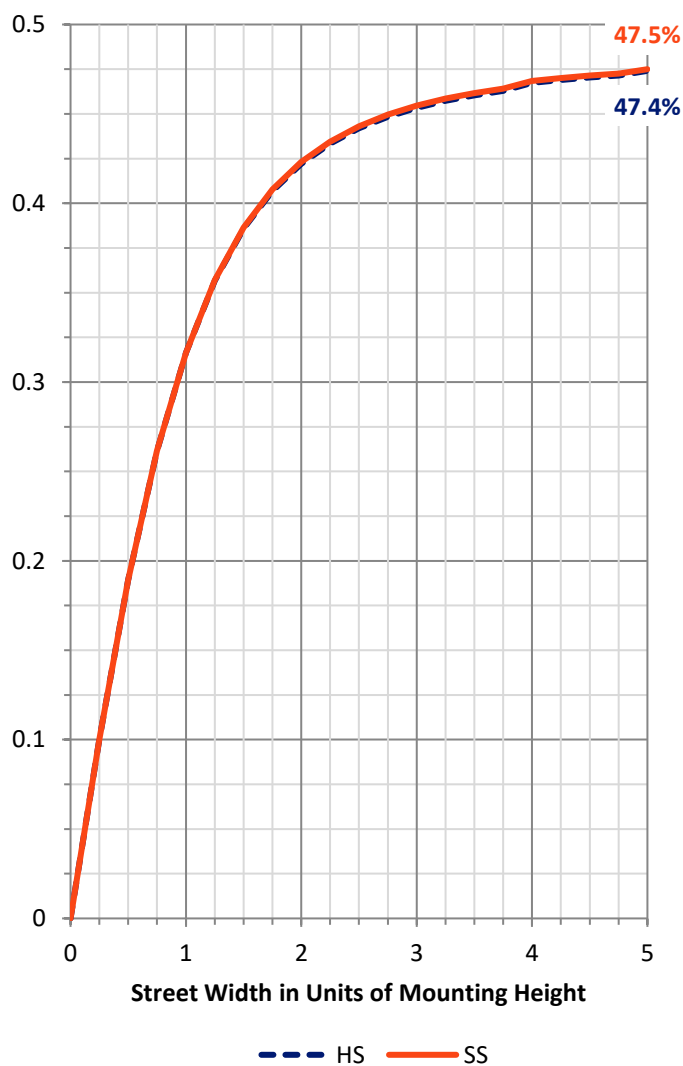
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3074.2	147.7	3221.9
	% Fixture	47.7	2.3	50.0
Street Side	Lumens	3074.2	147.7	3221.9
	% Fixture	47.7	2.3	50.0
Total	Lumens	6148.4	295.5	6443.9
	% Fixture	95.4	4.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	0.8
10°-20°	164.9	2.6
20°-30°	344.0	5.3
30°-40°	616.9	9.6
40°-50°	985.8	15.3
50°-60°	1349.5	20.9
60°-70°	1392.0	21.6
70°-80°	989.9	15.4
80°-90°	253.8	3.9
90°-100°	6.6	0.1
100°-110°	67.0	1.0
110°-120°	98.0	1.5
120°-130°	56.9	0.9
130°-140°	30.1	0.5
140°-150°	17.9	0.3
150°-160°	11.0	0.2
160°-170°	6.0	0.1
170°-180°	2.0	0.0
0°-90°	6148.4	95.4
0°-180°	6443.9	100.0

Coefficient of Utilization

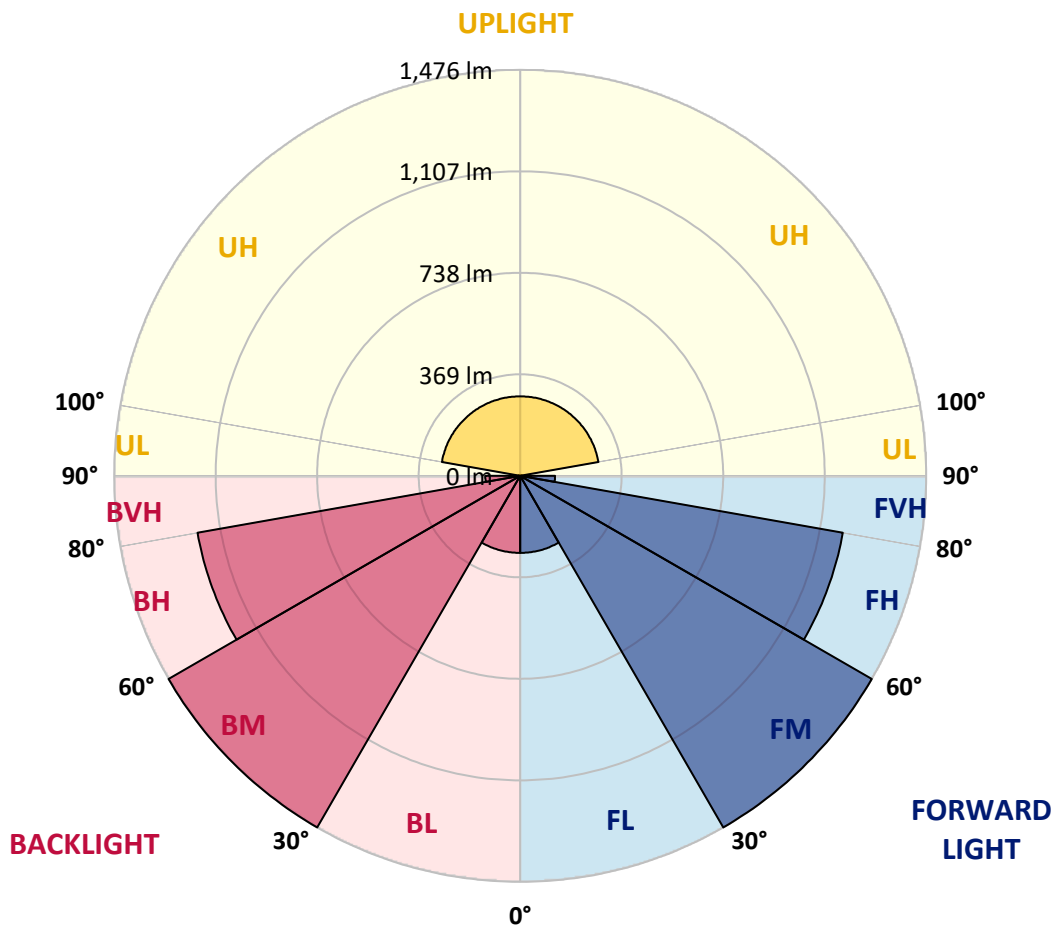


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	280.2	4.3			
FM (30°-60°)	1476.1	22.9			
FH (60°-80°)	1191.0	18.5			G1/1800
FVH (80°-90°)	126.9	2.0			G2/225
BL (0°-30°)	280.2	4.3	B1/500		
BM (30°-60°)	1476.1	22.9	B2/2500		
BH (60°-80°)	1191.0	18.5	B3/2500		G3/2500
BVH (80°-90°)	126.9	2.0			G2/225
UL (90°-100°)	6.6	0.1		U1/10	
UH (100°-180°)	288.9	4.5		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°	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
2.5°	550.0	550.0	544.8	544.8	544.8	539.6	539.6	539.6	539.6	534.4	539.6
5°	550.0	550.0	550.0	550.0	544.8	539.6	539.6	539.6	534.4	534.4	534.4
7.5°	544.8	544.8	544.8	544.8	539.6	534.4	534.4	534.4	529.2	529.2	529.2
10°	539.6	544.8	539.6	539.6	534.4	534.4	539.6	539.6	544.8	544.8	544.8
12.5°	534.4	534.4	534.4	539.6	539.6	544.8	555.2	565.5	570.7	575.9	575.9
15°	534.4	534.4	539.6	544.8	555.2	565.5	581.1	596.7	607.0	617.4	617.4
17.5°	534.4	534.4	539.6	555.2	570.7	591.5	617.4	638.2	658.9	674.5	679.7
20°	534.4	534.4	544.8	565.5	596.7	627.8	664.1	695.2	726.4	752.3	752.3
22.5°	539.6	544.8	555.2	581.1	627.8	674.5	721.2	767.9	804.2	835.3	835.3
25°	550.0	550.0	565.5	607.0	664.1	726.4	793.8	850.9	897.6	939.1	939.1
27.5°	555.2	560.3	581.1	633.0	705.6	783.4	876.8	944.3	1006.5	1042.9	1048.0
30°	565.5	570.7	601.8	653.7	741.9	840.5	949.5	1042.9	1110.3	1146.6	1157.0
32.5°	570.7	575.9	617.4	679.7	778.2	892.4	1016.9	1136.2	1229.6	1271.1	1286.7
35°	586.3	591.5	633.0	705.6	819.8	949.5	1094.7	1234.8	1343.8	1395.7	1406.0
37.5°	601.8	607.0	648.5	731.6	861.3	1011.7	1177.8	1338.6	1463.1	1525.4	1546.1
40°	612.2	617.4	664.1	762.7	908.0	1079.2	1271.1	1447.5	1587.6	1665.5	1681.0
42.5°	627.8	633.0	684.9	788.6	949.5	1146.6	1369.7	1566.9	1717.3	1805.5	1826.3
45°	643.4	648.5	705.6	819.8	996.2	1219.3	1468.3	1707.0	1878.2	1981.9	2002.7
47.5°	658.9	664.1	726.4	850.9	1042.9	1291.9	1572.1	1831.5	2039.0	2137.6	2179.1
50°	664.1	674.5	736.7	871.6	1074.0	1354.2	1660.3	1956.0	2173.9	2303.6	2314.0
52.5°	669.3	679.7	747.1	887.2	1099.9	1400.8	1732.9	2059.8	2314.0	2469.6	2459.3
55°	674.5	674.5	747.1	887.2	1110.3	1432.0	1784.8	2127.2	2407.4	2531.9	2604.5
57.5°	653.7	658.9	736.7	876.8	1105.1	1426.8	1784.8	2153.2	2443.7	2578.6	2630.5
60°	627.8	638.2	710.8	850.9	1084.4	1411.2	1774.4	2142.8	2459.3	2604.5	2589.0
62.5°	591.5	612.2	674.5	814.6	1053.2	1374.9	1758.8	2116.8	2422.9	2573.4	2557.8
65°	550.0	570.7	627.8	778.2	985.8	1286.7	1675.8	2065.0	2324.4	2495.6	2464.5
67.5°	508.5	524.0	581.1	716.0	908.0	1193.3	1566.9	1950.8	2184.3	2371.1	2355.5
70°	461.8	466.9	524.0	643.4	830.1	1099.9	1463.1	1790.0	2059.8	2199.9	2231.0
72.5°	404.7	404.7	461.8	565.5	736.7	975.4	1323.0	1608.4	1862.6	1981.9	2028.6
75°	332.1	337.2	383.9	477.3	617.4	835.3	1125.9	1416.4	1629.1	1753.7	1769.2
77.5°	259.4	264.6	300.9	378.7	498.1	674.5	928.7	1157.0	1359.3	1468.3	1437.2
80°	186.8	192.0	217.9	275.0	368.4	503.3	716.0	918.3	1063.6	1151.8	1110.3
82.5°	114.1	119.3	134.9	171.2	233.5	326.9	487.7	638.2	752.3	824.9	809.4
85°	57.1	57.1	67.4	77.8	98.6	145.3	233.5	321.7	409.9	461.8	446.2
87.5°	10.4	15.6	15.6	15.6	15.6	10.4	15.6	15.6	15.6	25.9	10.4
90°	2.5	2.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.5	2.5
92.5°	2.5	2.5	2.5	3.5	4.0	3.5	4.0	3.0	3.0	2.5	2.5
95°	3.0	3.0	3.5	4.5	5.6	6.1	6.1	3.5	3.5	3.0	3.0
97.5°	4.0	4.5	4.5	5.6	9.1	16.7	10.1	5.1	5.1	4.5	4.0
100°	6.6	7.1	7.1	12.6	26.8	35.9	25.8	13.1	9.6	7.1	7.1
102.5°	21.2	22.2	27.3	40.9	60.7	55.1	46.5	44.0	30.3	24.3	23.3
105°	54.1	53.6	57.6	68.2	84.9	83.4	76.8	69.8	60.2	55.6	55.6
107.5°	71.3	71.3	74.8	83.9	96.6	112.7	114.2	90.5	79.4	74.3	73.8
110°	80.4	80.4	83.4	91.0	107.7	130.4	129.4	111.7	98.1	91.5	90.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	82.4	82.9	86.9	98.6	116.8	126.9	122.3	115.3	109.2	104.1	103.1
115°	85.4	85.4	90.0	101.1	111.2	115.3	110.2	104.6	100.6	98.6	99.6
117.5°	84.4	85.9	86.9	93.0	99.6	102.6	100.1	92.5	89.5	88.5	86.9
120°	78.4	78.4	79.4	82.4	85.9	87.5	86.4	81.4	78.9	78.4	77.3
122.5°	69.8	70.3	69.8	71.3	73.8	75.3	74.3	70.3	69.3	69.3	68.2
125°	61.2	61.2	60.7	61.7	63.2	62.7	63.2	61.2	60.7	60.7	60.2
127.5°	55.1	54.6	53.6	54.1	54.6	54.6	55.1	53.1	53.6	54.1	53.6
130°	49.0	49.0	48.0	48.0	48.0	47.0	48.0	47.0	47.5	48.0	48.5
132.5°	43.5	43.5	42.0	41.5	41.5	41.5	42.0	41.5	42.5	43.5	43.5
135°	38.9	38.9	37.4	37.9	37.9	37.4	37.9	37.4	38.4	38.9	38.9
137.5°	35.4	35.4	34.4	34.4	34.4	33.9	34.4	34.4	34.9	35.9	36.4
140°	32.4	32.4	31.8	31.8	31.3	31.8	31.8	31.8	32.4	32.9	32.9
142.5°	30.8	30.3	29.8	29.3	29.8	29.8	29.8	29.3	29.8	30.8	30.8
145°	28.3	28.3	27.8	27.8	27.8	28.3	27.8	27.8	28.3	28.3	28.8
147.5°	26.8	26.8	26.3	26.8	26.8	26.8	26.8	26.3	26.8	26.8	27.3
150°	26.3	25.8	25.3	25.8	25.8	25.3	25.3	25.3	25.3	25.8	25.8
152.5°	24.8	24.8	24.3	24.8	24.3	24.3	24.3	24.3	24.3	24.8	25.3
155°	23.8	23.8	23.3	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
157.5°	22.7	23.3	22.7	22.7	22.7	22.7	22.7	22.7	22.7	23.3	23.3
160°	22.2	22.2	22.2	22.2	21.7	21.7	21.7	22.2	22.2	22.2	22.7
162.5°	21.7	21.7	21.7	21.7	21.2	21.2	21.2	21.2	21.7	21.7	22.2
165°	21.7	21.2	21.2	21.2	20.7	20.7	20.7	20.7	21.2	21.7	21.2
167.5°	20.7	20.7	20.7	20.7	20.7	20.2	20.2	20.7	20.7	20.7	21.2
170°	20.7	20.7	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.7
172.5°	20.7	20.7	20.7	20.7	20.2	20.2	20.2	20.2	20.2	20.7	20.7
175°	20.7	20.7	20.7	20.7	20.2	20.2	20.2	20.7	20.7	20.7	20.2
177.5°	20.7	20.7	20.7	20.7	20.2	20.7	20.7	20.7	20.7	20.7	20.7
180°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7

(END OF REPORT)