

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: P834055

Luminaire Tested: **TTN-D3-830-U-WQ-SG-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P834055
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-WQ-SG-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION WITH SOLITE GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6163.8 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U3 - G1

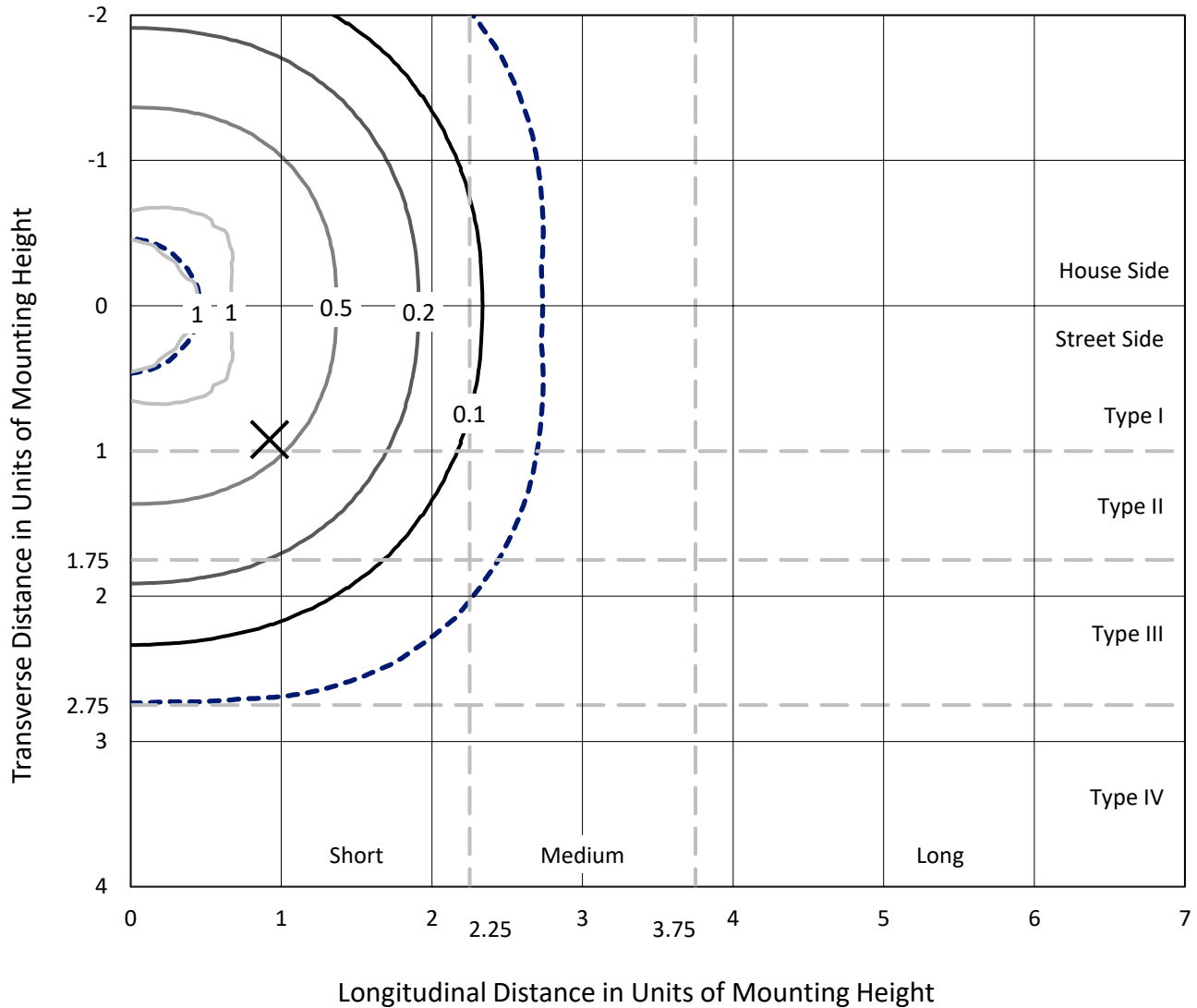
Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

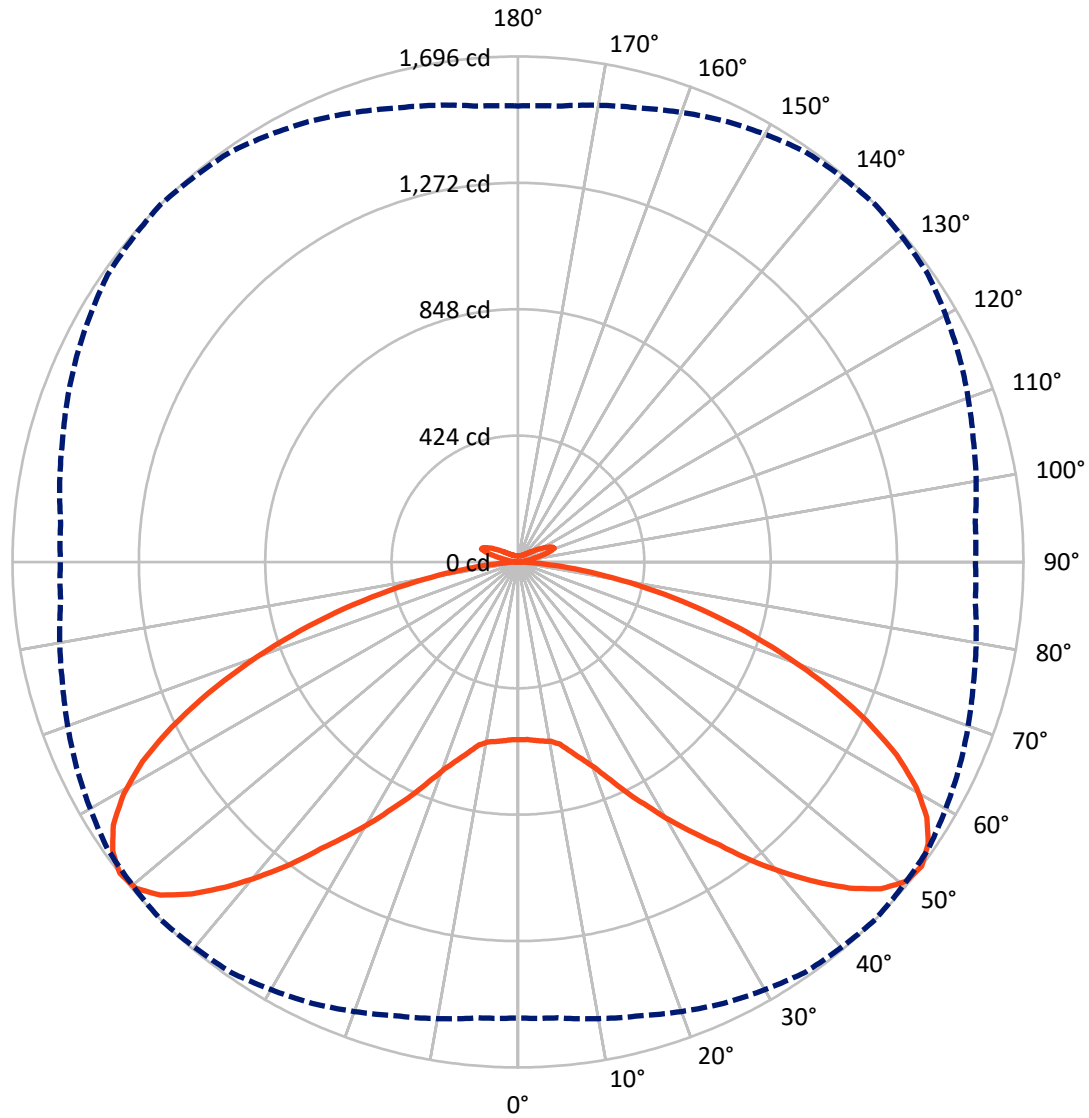
✕ Max cd
 - - - 1/2 Max cd



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 52.5-Deg Vertical

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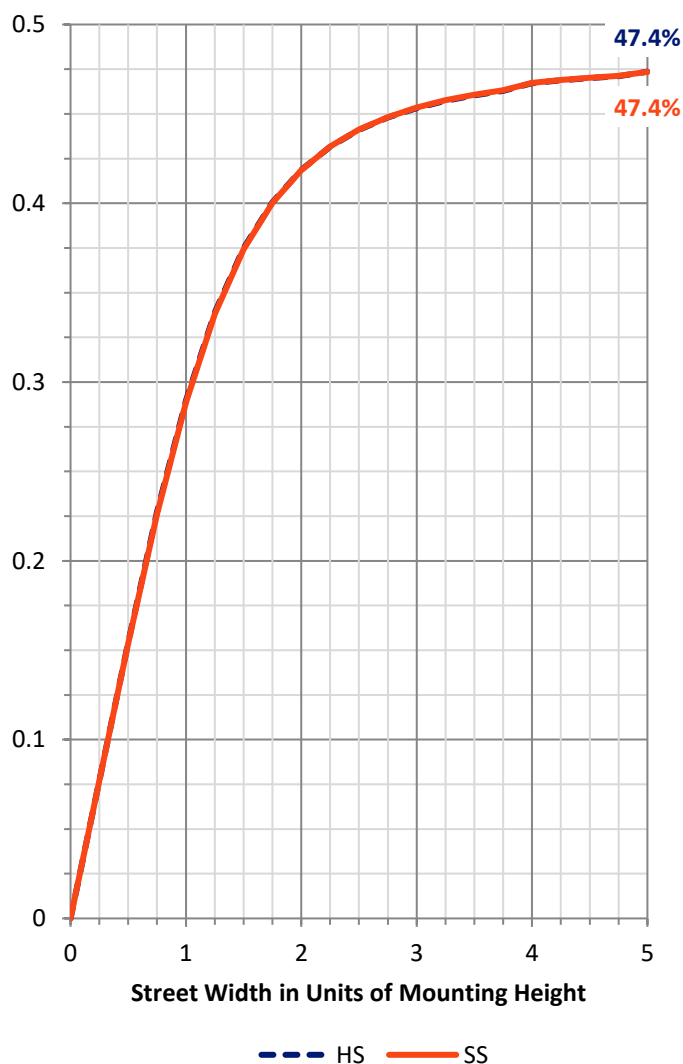
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2934.2	147.7	3081.9
	% Fixture	47.6	2.4	50.0
Street Side	Lumens	2934.2	147.7	3081.9
	% Fixture	47.6	2.4	50.0
Total	Lumens	5868.4	295.5	6163.8
	% Fixture	95.2	4.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	0.9
10°-20°	189.4	3.1
20°-30°	399.6	6.5
30°-40°	730.0	11.8
40°-50°	1162.2	18.9
50°-60°	1405.3	22.8
60°-70°	1181.6	19.2
70°-80°	626.3	10.2
80°-90°	116.3	1.9
90°-100°	6.6	0.1
100°-110°	67.0	1.1
110°-120°	98.0	1.6
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°	5868.4	95.2
0°-180°	6163.8	100.0

Coefficient of Utilization

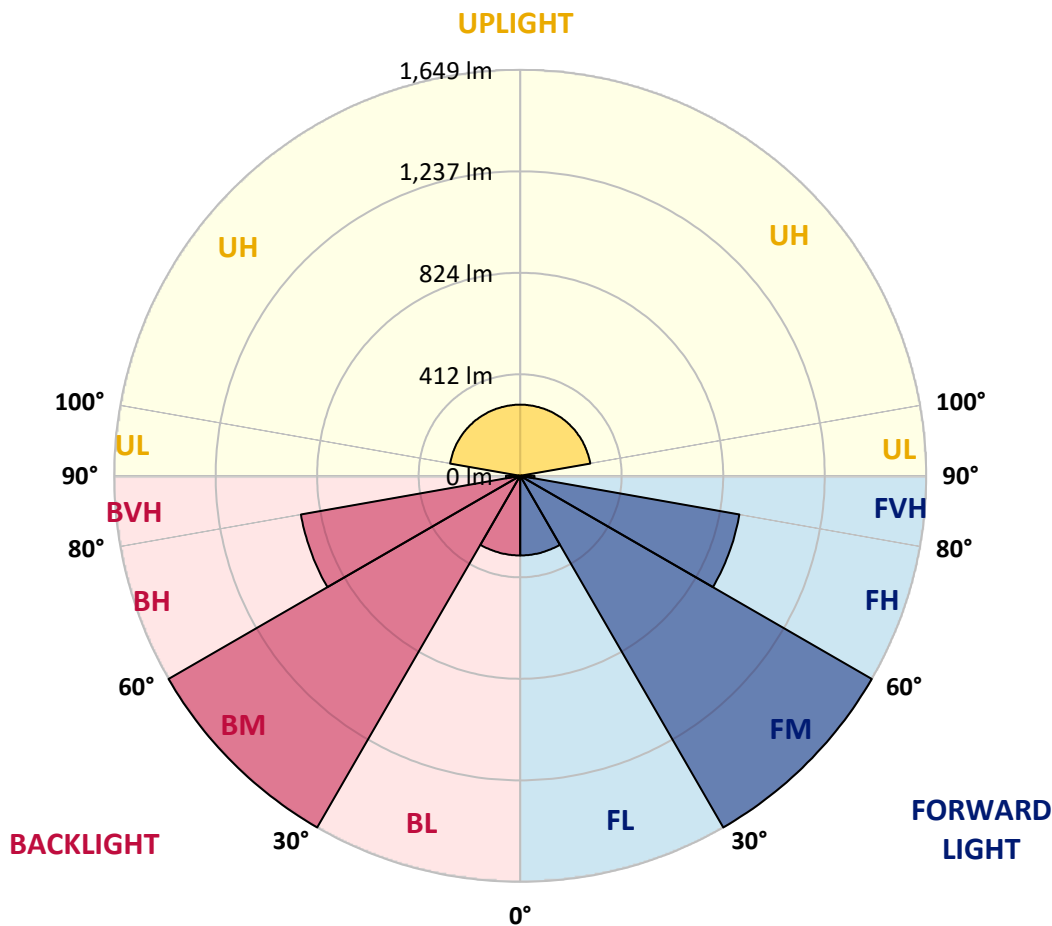


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.3	5.2			
FM (30°-60°)	1648.8	26.7			
FH (60°-80°)	904.0	14.7			G1/1800
FVH (80°-90°)	58.1	0.9			G1/100
BL (0°-30°)	323.3	5.2	B1/500		
BM (30°-60°)	1648.8	26.7	B2/2500		
BH (60°-80°)	904.0	14.7	B2/1000		G1/1800
BVH (80°-90°)	58.1	0.9			G1/100
UL (90°-100°)	6.6	0.1		U1/10	
UH (100°-180°)	288.9	4.7		U3/500	

BUG Rating: B2-U3-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	596.6	596.6	596.6	596.6	596.6	596.6	596.6	596.6	596.6	596.6	596.6
2.5°	596.6	596.6	596.6	596.6	596.6	596.6	596.6	596.6	596.6	596.6	596.6
5°	601.8	601.8	596.6	601.8	601.8	601.8	601.8	601.8	601.8	601.8	601.8
7.5°	601.8	601.8	601.8	607.0	607.0	607.0	607.0	601.8	601.8	601.8	601.8
10°	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1
12.5°	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7
15°	653.6	653.6	653.6	653.6	658.8	658.8	658.8	653.6	653.6	653.6	653.6
17.5°	684.8	684.8	690.0	690.0	695.2	695.2	695.2	690.0	684.8	690.0	684.8
20°	731.5	731.5	731.5	736.7	741.8	736.7	741.8	731.5	731.5	731.5	731.5
22.5°	783.3	783.3	783.3	788.5	793.7	793.7	793.7	783.3	783.3	783.3	783.3
25°	845.6	845.6	845.6	850.8	856.0	861.2	861.2	850.8	845.6	845.6	840.4
27.5°	907.8	907.8	918.2	923.4	928.6	928.6	928.6	918.2	913.0	913.0	913.0
30°	980.5	980.5	990.8	996.0	1006.4	1006.4	1006.4	990.8	985.7	980.5	980.5
32.5°	1047.9	1053.1	1063.5	1073.9	1084.2	1084.2	1089.4	1068.7	1058.3	1053.1	1053.1
35°	1120.5	1125.7	1136.1	1151.7	1162.0	1167.2	1172.4	1151.7	1136.1	1130.9	1130.9
37.5°	1203.5	1208.7	1224.3	1239.9	1260.6	1271.0	1276.2	1245.0	1219.1	1208.7	1208.7
40°	1296.9	1302.1	1317.7	1338.4	1359.2	1369.5	1374.7	1343.6	1317.7	1307.3	1302.1
42.5°	1374.7	1385.1	1400.7	1431.8	1452.6	1468.1	1468.1	1431.8	1400.7	1385.1	1385.1
45°	1447.4	1457.7	1483.7	1514.8	1545.9	1561.5	1556.3	1520.0	1483.7	1462.9	1457.7
47.5°	1504.4	1514.8	1545.9	1582.2	1623.7	1639.3	1634.1	1592.6	1545.9	1520.0	1514.8
50°	1535.6	1540.7	1577.1	1628.9	1670.4	1686.0	1675.6	1634.1	1582.2	1545.9	1540.7
52.5°	1530.4	1535.6	1577.1	1634.1	1680.8	1696.4	1680.8	1634.1	1582.2	1540.7	1535.6
55°	1499.2	1504.4	1545.9	1608.2	1654.9	1670.4	1654.9	1608.2	1551.1	1509.6	1504.4
57.5°	1442.2	1447.4	1488.9	1551.1	1603.0	1618.6	1597.8	1545.9	1488.9	1447.4	1447.4
60°	1359.2	1364.4	1405.9	1473.3	1520.0	1535.6	1509.6	1468.1	1411.1	1364.4	1359.2
62.5°	1250.2	1250.2	1296.9	1364.4	1405.9	1426.6	1400.7	1354.0	1302.1	1250.2	1255.4
65°	1120.5	1115.4	1162.0	1224.3	1271.0	1286.5	1260.6	1219.1	1167.2	1120.5	1120.5
67.5°	985.7	985.7	1022.0	1073.9	1115.4	1130.9	1105.0	1068.7	1027.2	985.7	985.7
70°	840.4	840.4	866.3	918.2	954.5	964.9	949.3	913.0	876.7	840.4	840.4
72.5°	695.2	690.0	715.9	757.4	788.5	798.9	783.3	762.6	721.1	695.2	695.2
75°	549.9	544.7	560.3	596.6	622.5	632.9	617.3	601.8	570.6	549.9	549.9
77.5°	409.8	404.6	420.2	451.3	466.9	472.1	461.7	451.3	425.4	409.8	409.8
80°	280.1	274.9	285.3	306.1	321.6	321.6	316.4	311.3	290.5	280.1	285.3
82.5°	166.0	160.8	171.2	186.8	197.1	191.9	191.9	186.8	171.2	166.0	166.0
85°	72.6	67.4	72.6	83.0	93.4	88.2	88.2	88.2	77.8	72.6	72.6
87.5°	10.4	10.4	10.4	15.6	20.8	15.6	15.6	15.6	10.4	10.4	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)