

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: P834059

Luminaire Tested: **TTN-D3-830-U-WQ-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P834059
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-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6837.8 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G2

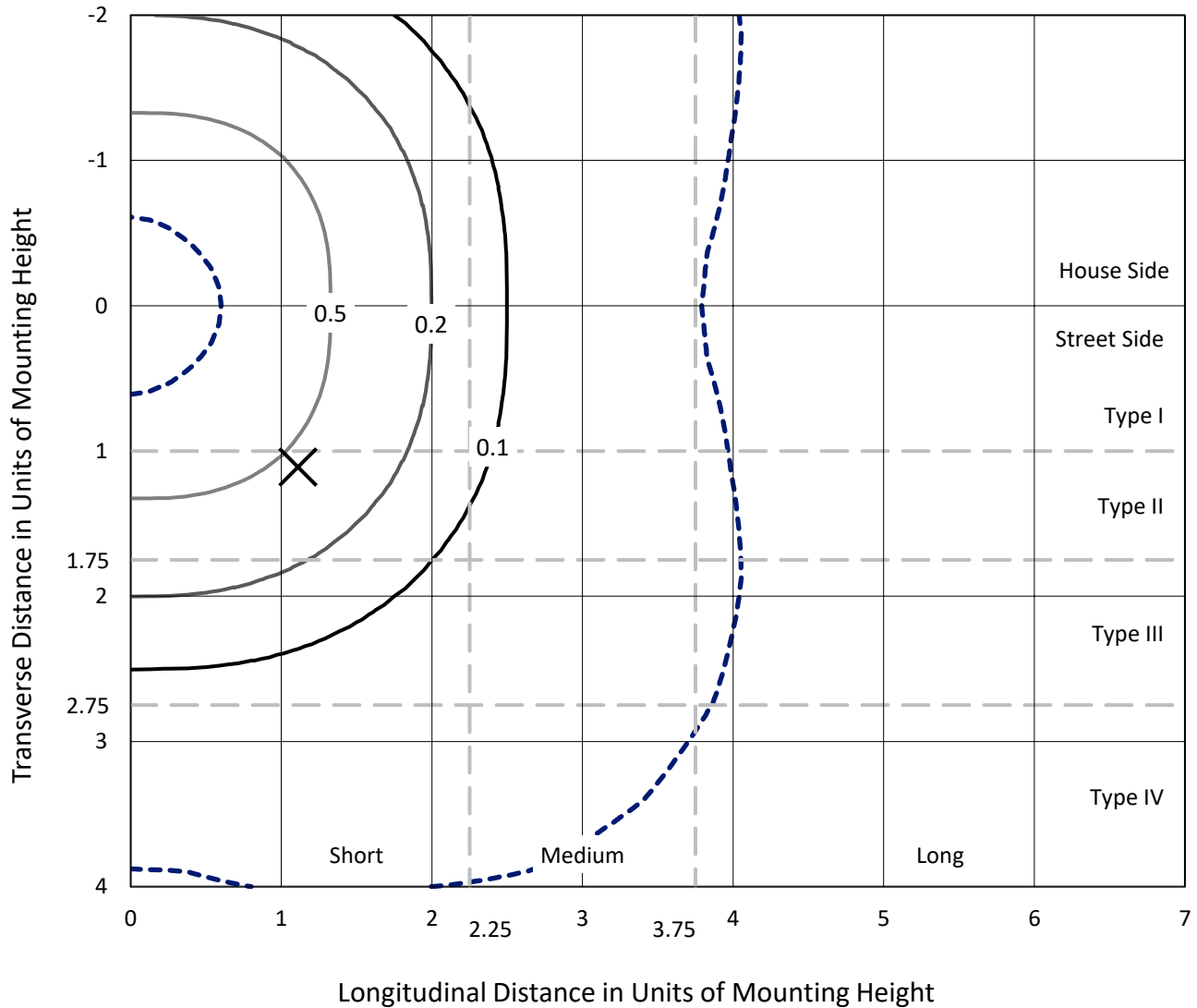
Input Watts (W): 63.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P834059
 CATALOG NUMBER: TTN-D3-830-U-WQ-UPL2

Iso-Footcandle Lines of Horizontal Illumination

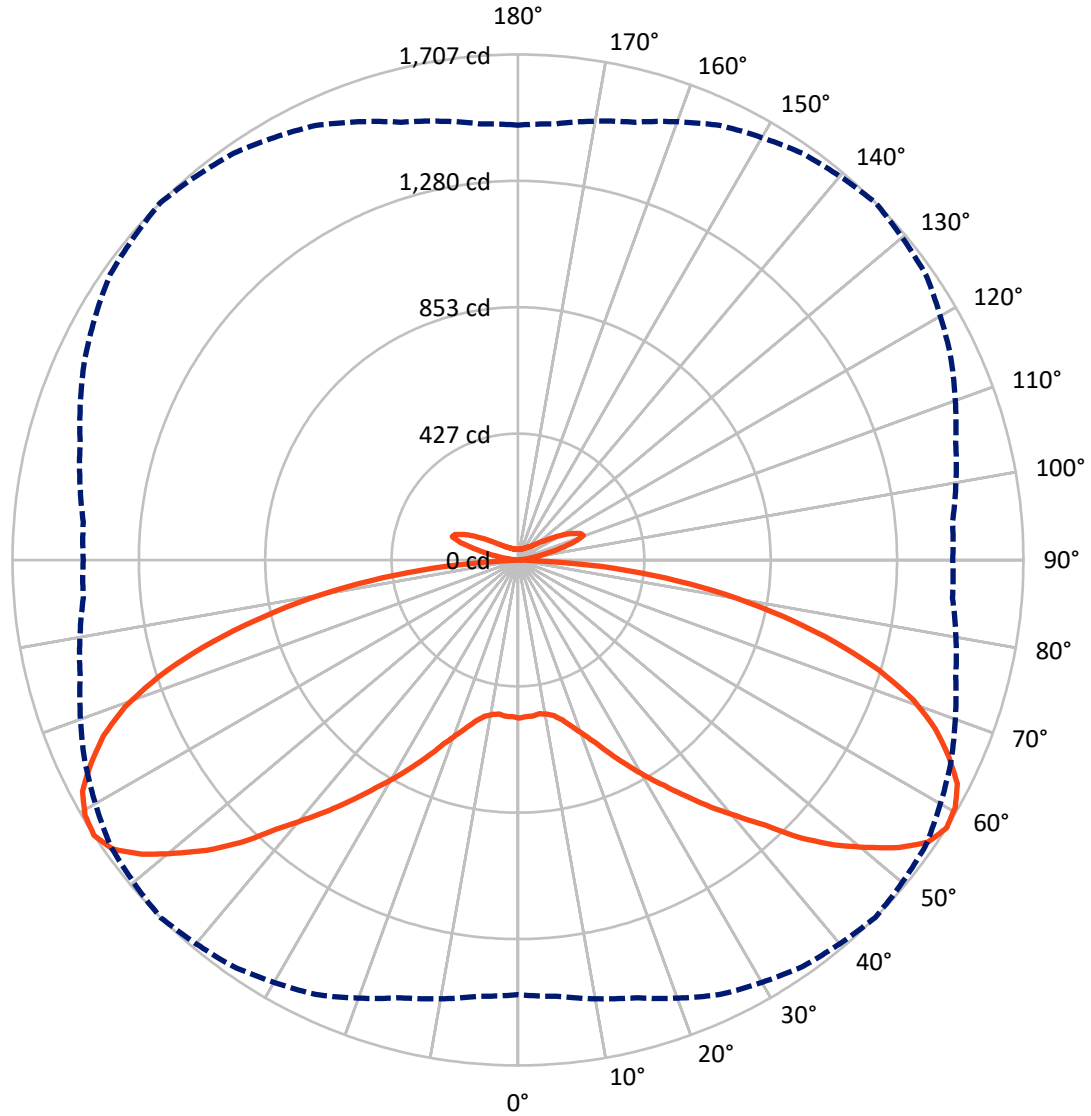
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Short - N/A

REPORT NUMBER: P834059
CATALOG NUMBER: TTN-D3-830-U-WQ-UPL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P834059
 CATALOG NUMBER: TTN-D3-830-U-WQ-UPL2

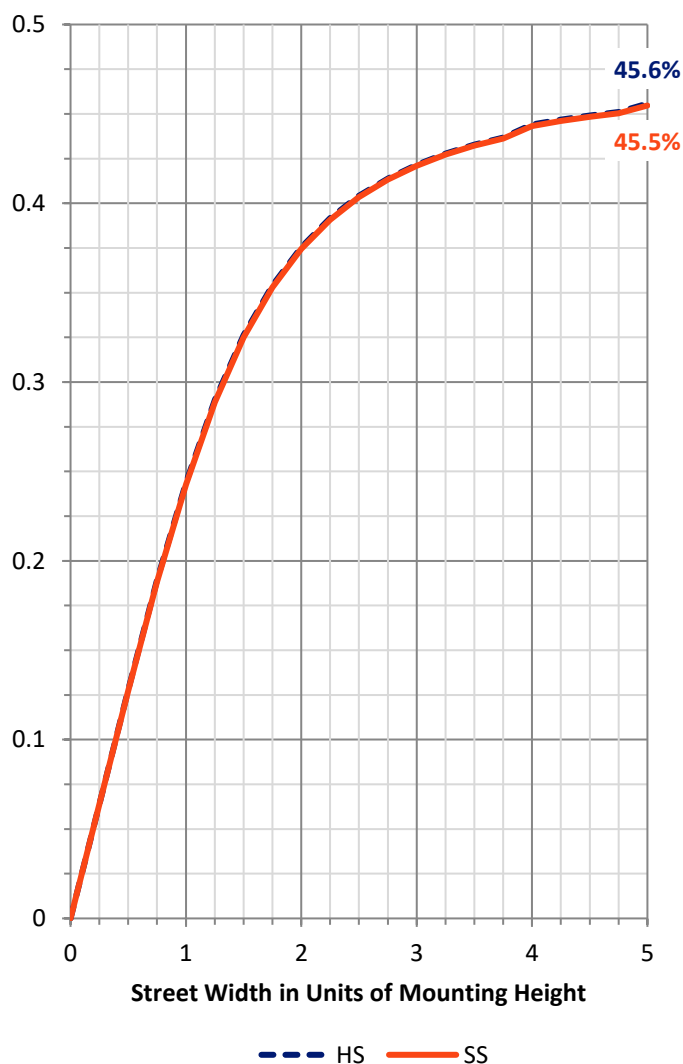
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3151.9	267.0	3418.9
	% Fixture	46.1	3.9	50.0
Street Side	Lumens	3151.9	267.0	3418.9
	% Fixture	46.1	3.9	50.0
Total	Lumens	6303.7	534.0	6837.8
	% Fixture	92.2	7.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	0.7
10°-20°	160.3	2.3
20°-30°	336.2	4.9
30°-40°	610.0	8.9
40°-50°	994.4	14.5
50°-60°	1391.9	20.4
60°-70°	1453.1	21.3
70°-80°	1038.2	15.2
80°-90°	269.3	3.9
90°-100°	11.9	0.2
100°-110°	121.1	1.8
110°-120°	177.1	2.6
120°-130°	102.8	1.5
130°-140°	54.4	0.8
140°-150°	32.3	0.5
150°-160°	19.9	0.3
160°-170°	10.9	0.2
170°-180°	3.5	0.1
0°-90°	6303.7	92.2
0°-180°	6837.8	100.0

Coefficient of Utilization



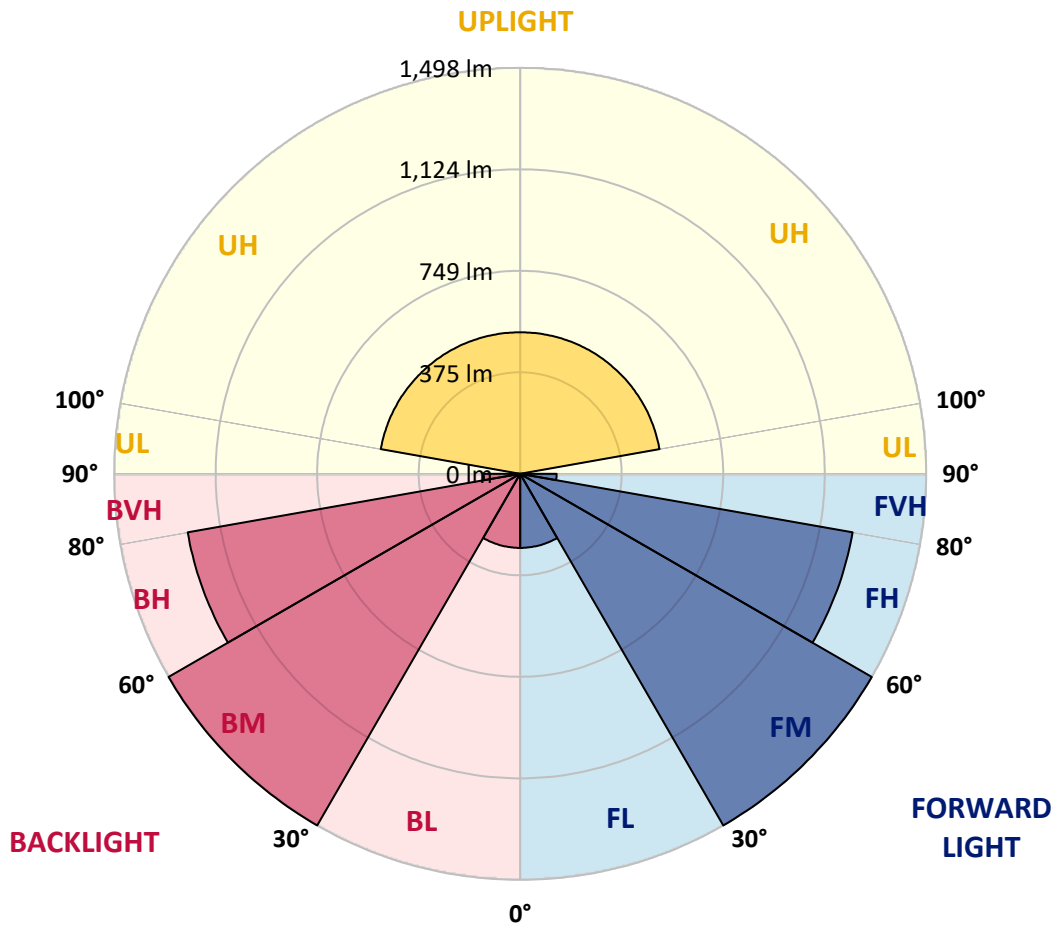
REPORT NUMBER: P834059
 CATALOG NUMBER: TTN-D3-830-U-WQ-UPL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	273.4	4.0			
FM (30°-60°)	1498.2	21.9			
FH (60°-80°)	1245.7	18.2			G1/1800
FVH (80°-90°)	134.7	2.0			G2/225
BL (0°-30°)	273.4	4.0	B1/500		
BM (30°-60°)	1498.2	21.9	B2/2500		
BH (60°-80°)	1245.7	18.2	B3/2500		G1/1800
BVH (80°-90°)	134.7	2.0			G2/225
UL (90°-100°)	11.9	0.2		U2/50	
UH (100°-180°)	522.1	7.6		U4/1000	

BUG Rating: B3-U4-G2

Type V Short





REPORT NUMBER: P834059

CATALOG NUMBER: TTN-D3-830-U-WQ-UPL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3
2.5°	529.1	529.1	529.1	529.1	529.1	529.1	529.1	529.1	529.1	529.1	529.1
5°	529.1	529.1	529.1	529.1	529.1	529.1	529.1	529.1	529.1	529.1	529.1
7.5°	518.7	518.7	523.9	523.9	523.9	523.9	523.9	523.9	523.9	523.9	523.9
10°	518.7	518.7	523.9	523.9	529.1	529.1	529.1	523.9	523.9	518.7	518.7
12.5°	529.1	529.1	529.1	534.3	539.5	539.5	539.5	534.3	534.3	529.1	529.1
15°	544.6	549.8	549.8	555.0	560.2	560.2	560.2	555.0	555.0	549.8	549.8
17.5°	575.8	575.8	575.8	580.9	586.1	591.3	591.3	580.9	580.9	575.8	580.9
20°	606.9	612.1	612.1	617.3	622.4	627.6	622.4	617.3	612.1	612.1	612.1
22.5°	653.6	653.6	658.8	658.8	669.1	669.1	669.1	658.8	658.8	658.8	658.8
25°	705.4	705.4	710.6	715.8	726.2	726.2	721.0	710.6	710.6	710.6	715.8
27.5°	767.7	767.7	772.9	772.9	783.2	783.2	778.1	772.9	772.9	772.9	778.1
30°	824.7	824.7	835.1	840.3	845.5	845.5	845.5	835.1	835.1	829.9	829.9
32.5°	876.6	881.8	887.0	902.5	912.9	907.7	912.9	902.5	892.2	887.0	887.0
35°	933.7	938.9	949.2	964.8	980.4	980.4	980.4	964.8	954.4	944.0	949.2
37.5°	1001.1	1001.1	1016.7	1032.2	1053.0	1058.2	1053.0	1037.4	1021.8	1011.5	1011.5
40°	1073.7	1073.7	1089.3	1104.8	1130.8	1136.0	1130.8	1110.0	1089.3	1084.1	1084.1
42.5°	1146.3	1146.3	1167.1	1182.6	1213.8	1224.1	1213.8	1187.8	1167.1	1151.5	1156.7
45°	1224.1	1229.3	1255.3	1286.4	1322.7	1338.3	1322.7	1291.6	1260.5	1229.3	1229.3
47.5°	1312.3	1312.3	1343.4	1379.8	1421.2	1436.8	1416.1	1384.9	1343.4	1317.5	1317.5
50°	1369.4	1374.6	1416.1	1462.7	1514.6	1525.0	1509.4	1462.7	1416.1	1379.8	1374.6
52.5°	1426.4	1431.6	1478.3	1545.7	1597.6	1613.2	1592.4	1545.7	1478.3	1431.6	1431.6
55°	1462.7	1473.1	1525.0	1597.6	1654.7	1680.6	1649.5	1597.6	1519.8	1467.9	1462.7
57.5°	1467.9	1478.3	1530.2	1618.4	1675.4	1706.5	1680.6	1613.2	1530.2	1473.1	1467.9
60°	1457.6	1462.7	1514.6	1608.0	1675.4	1696.2	1675.4	1602.8	1509.4	1462.7	1452.4
62.5°	1431.6	1442.0	1493.9	1571.7	1649.5	1665.0	1644.3	1566.5	1488.7	1431.6	1421.2
65°	1348.6	1359.0	1436.8	1514.6	1582.0	1597.6	1582.0	1514.6	1431.6	1348.6	1338.3
67.5°	1255.3	1260.5	1338.3	1431.6	1493.9	1519.8	1493.9	1436.8	1333.1	1255.3	1244.9
70°	1156.7	1161.9	1224.1	1322.7	1384.9	1416.1	1390.1	1327.9	1219.0	1151.5	1146.3
72.5°	1042.6	1042.6	1104.8	1182.6	1244.9	1276.0	1255.3	1177.5	1094.5	1027.0	1016.7
75°	887.0	892.2	959.6	1016.7	1084.1	1104.8	1084.1	1021.8	944.0	876.6	866.2
77.5°	726.2	731.4	788.4	835.1	897.4	912.9	897.4	845.5	772.9	715.8	710.6
80°	549.8	555.0	601.7	643.2	695.1	715.8	700.3	648.4	591.3	539.5	523.9
82.5°	357.9	363.1	409.8	440.9	487.6	503.1	492.8	446.1	399.4	347.5	342.3
85°	160.8	166.0	207.5	233.4	269.7	285.3	274.9	233.4	197.1	150.4	140.1
87.5°	15.6	15.6	15.6	15.6	15.6	20.7	20.7	15.6	15.6	15.6	15.6
90°	4.6	4.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.6	4.6
92.5°	4.6	4.6	4.6	6.4	7.3	6.4	7.3	5.5	5.5	4.6	4.6
95°	5.5	5.5	6.4	8.2	10.1	11.0	11.0	6.4	6.4	5.5	5.5
97.5°	7.3	8.2	8.2	10.1	16.4	30.2	18.3	9.1	9.1	8.2	7.3
100°	11.9	12.8	12.8	22.8	48.4	64.9	46.6	23.8	17.4	12.8	12.8
102.5°	38.4	40.2	49.3	74.0	109.6	99.6	84.1	79.5	54.8	43.9	42.0
105°	97.8	96.8	104.2	123.3	153.5	150.8	138.9	126.1	108.7	100.5	100.5
107.5°	128.8	128.8	135.2	151.7	174.5	203.7	206.5	163.5	143.4	134.3	133.4
110°	145.3	145.3	150.8	164.5	194.6	235.7	233.9	201.9	177.3	165.4	163.5



REPORT NUMBER: P834059
 CATALOG NUMBER: TTN-D3-830-U-WQ-UPL2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	148.9	149.8	157.1	178.2	211.1	229.3	221.1	208.3	197.4	188.2	186.4
115°	154.4	154.4	162.6	182.7	201.0	208.3	199.2	189.1	181.8	178.2	180.0
117.5°	152.6	155.3	157.1	168.1	180.0	185.5	180.9	167.2	161.7	159.9	157.1
120°	141.6	141.6	143.4	148.9	155.3	158.1	156.2	147.1	142.5	141.6	139.8
122.5°	126.1	127.0	126.1	128.8	133.4	136.1	134.3	127.0	125.2	125.2	123.3
125°	110.6	110.6	109.6	111.5	114.2	113.3	114.2	110.6	109.6	109.6	108.7
127.5°	99.6	98.7	96.8	97.8	98.7	98.7	99.6	95.9	96.8	97.8	96.8
130°	88.6	88.6	86.8	86.8	86.8	85.0	86.8	85.0	85.9	86.8	87.7
132.5°	78.6	78.6	75.8	74.9	74.9	74.9	75.8	74.9	76.7	78.6	78.6
135°	70.4	70.4	67.6	68.5	68.5	67.6	68.5	67.6	69.4	70.4	70.4
137.5°	64.0	64.0	62.1	62.1	62.1	61.2	62.1	62.1	63.0	64.9	65.8
140°	58.5	58.5	57.6	57.6	56.6	57.6	57.6	57.6	58.5	59.4	59.4
142.5°	55.7	54.8	53.9	53.0	53.9	53.9	53.9	53.0	53.9	55.7	55.7
145°	51.2	51.2	50.3	50.3	50.3	51.2	50.3	50.3	51.2	51.2	52.1
147.5°	48.4	48.4	47.5	48.4	48.4	48.4	48.4	47.5	48.4	48.4	49.3
150°	47.5	46.6	45.7	46.6	46.6	45.7	45.7	45.7	45.7	46.6	46.6
152.5°	44.8	44.8	43.9	44.8	43.9	43.9	43.9	43.9	43.9	44.8	45.7
155°	42.9	42.9	42.0	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
157.5°	41.1	42.0	41.1	41.1	41.1	41.1	41.1	41.1	41.1	42.0	42.0
160°	40.2	40.2	40.2	40.2	39.3	39.3	39.3	40.2	40.2	40.2	41.1
162.5°	39.3	39.3	39.3	39.3	38.4	38.4	38.4	38.4	39.3	39.3	40.2
165°	39.3	38.4	38.4	38.4	37.5	37.5	37.5	37.5	38.4	39.3	38.4
167.5°	37.5	37.5	37.5	37.5	37.5	36.5	36.5	37.5	37.5	37.5	38.4
170°	37.5	37.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	37.5
172.5°	37.5	37.5	37.5	37.5	36.5	36.5	36.5	36.5	36.5	37.5	37.5
175°	37.5	37.5	37.5	37.5	36.5	36.5	36.5	37.5	37.5	37.5	36.5
177.5°	37.5	37.5	37.5	37.5	36.5	37.5	37.5	37.5	37.5	37.5	37.5
180°	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5

(END OF REPORT)