

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: P834053

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P834053
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-CG-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6521.8 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G1

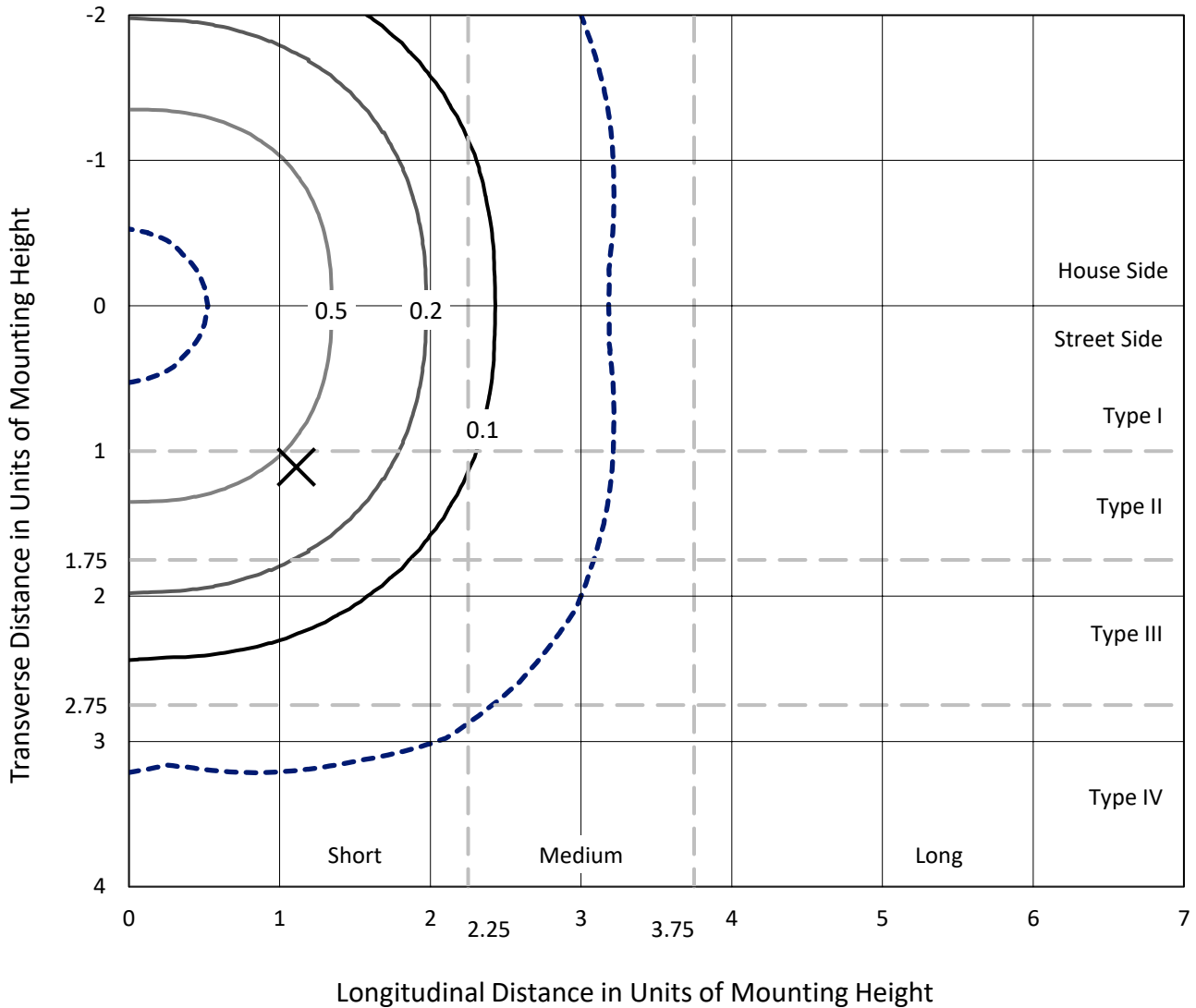
Input Watts (W): 63.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

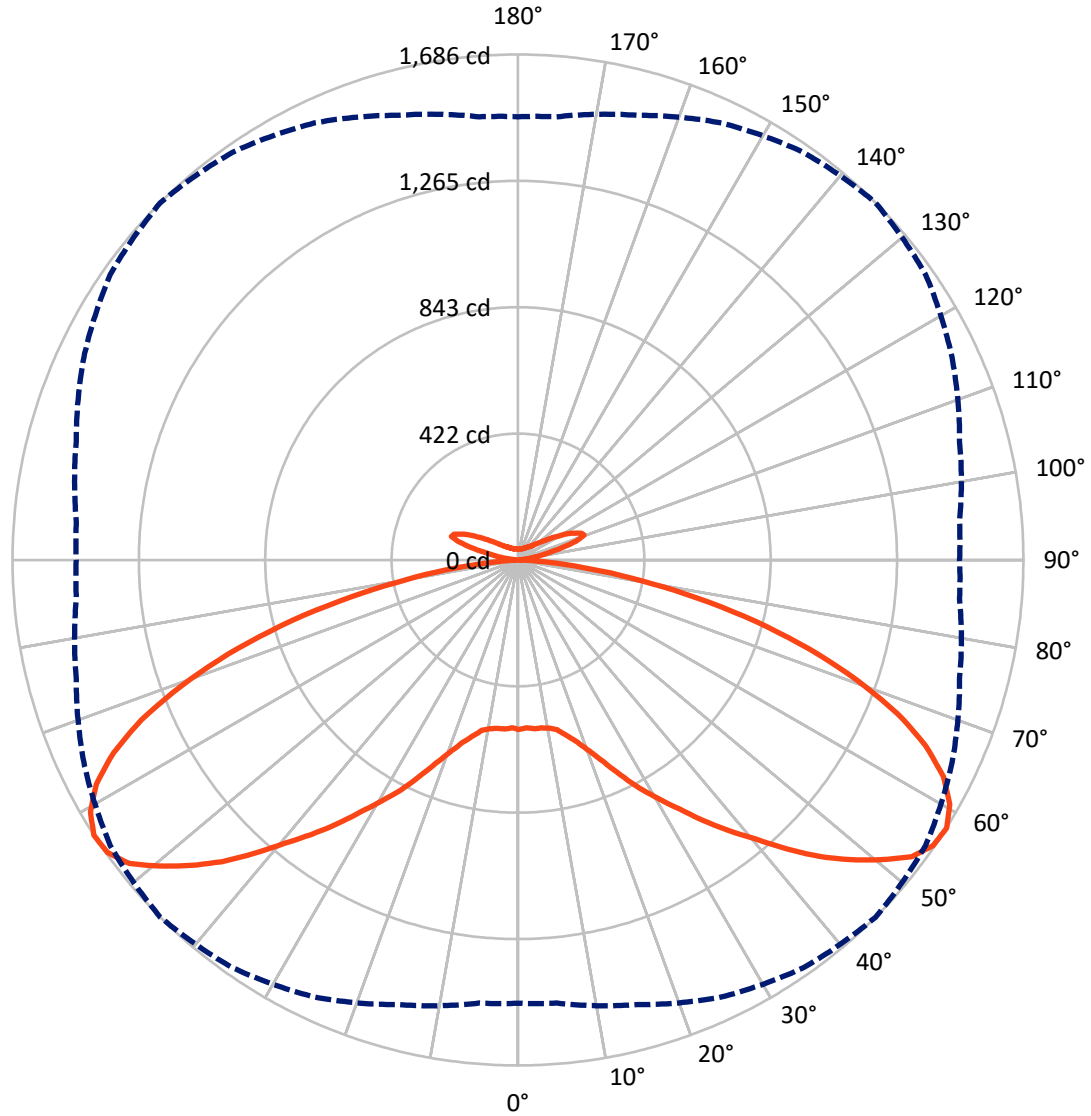
✕ Max cd
 - - - 1/2 Max cd



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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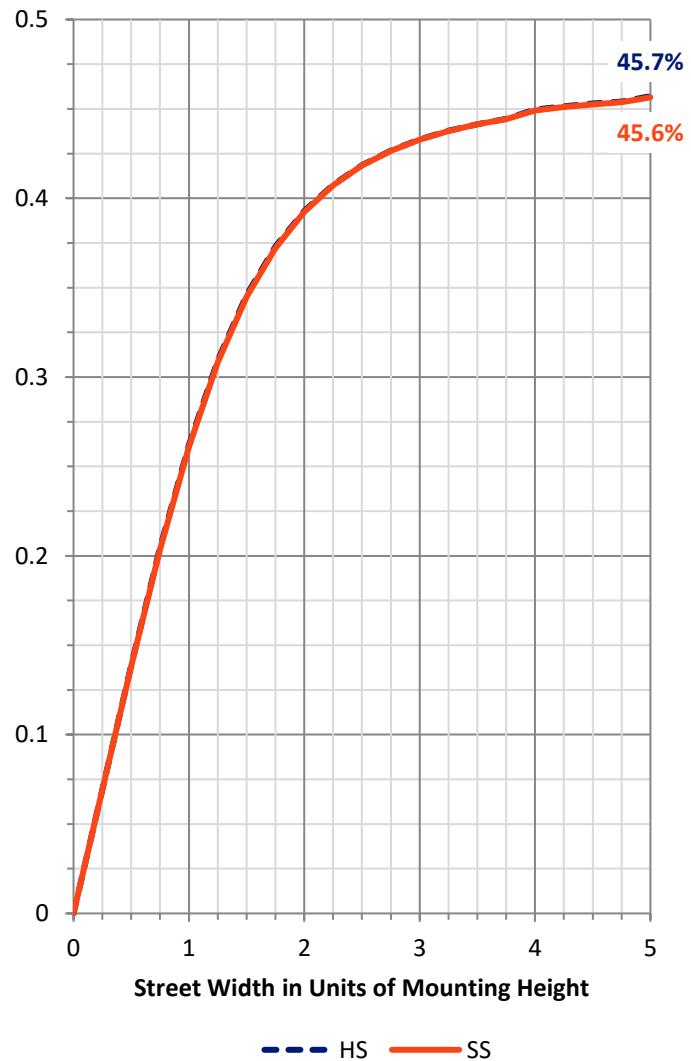
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2993.9	267.0	3260.9
	% Fixture	45.9	4.1	50.0
Street Side	Lumens	2993.9	267.0	3260.9
	% Fixture	45.9	4.1	50.0
Total	Lumens	5987.7	534.0	6521.8
	% Fixture	91.8	8.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	0.8
10°-20°	174.4	2.7
20°-30°	366.9	5.6
30°-40°	661.4	10.1
40°-50°	1051.4	16.1
50°-60°	1402.8	21.5
60°-70°	1355.4	20.8
70°-80°	785.4	12.0
80°-90°	136.1	2.1
90°-100°	11.9	0.2
100°-110°	121.1	1.9
110°-120°	177.1	2.7
120°-130°	102.8	1.6
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°	5987.7	91.8
0°-180°	6521.8	100.0

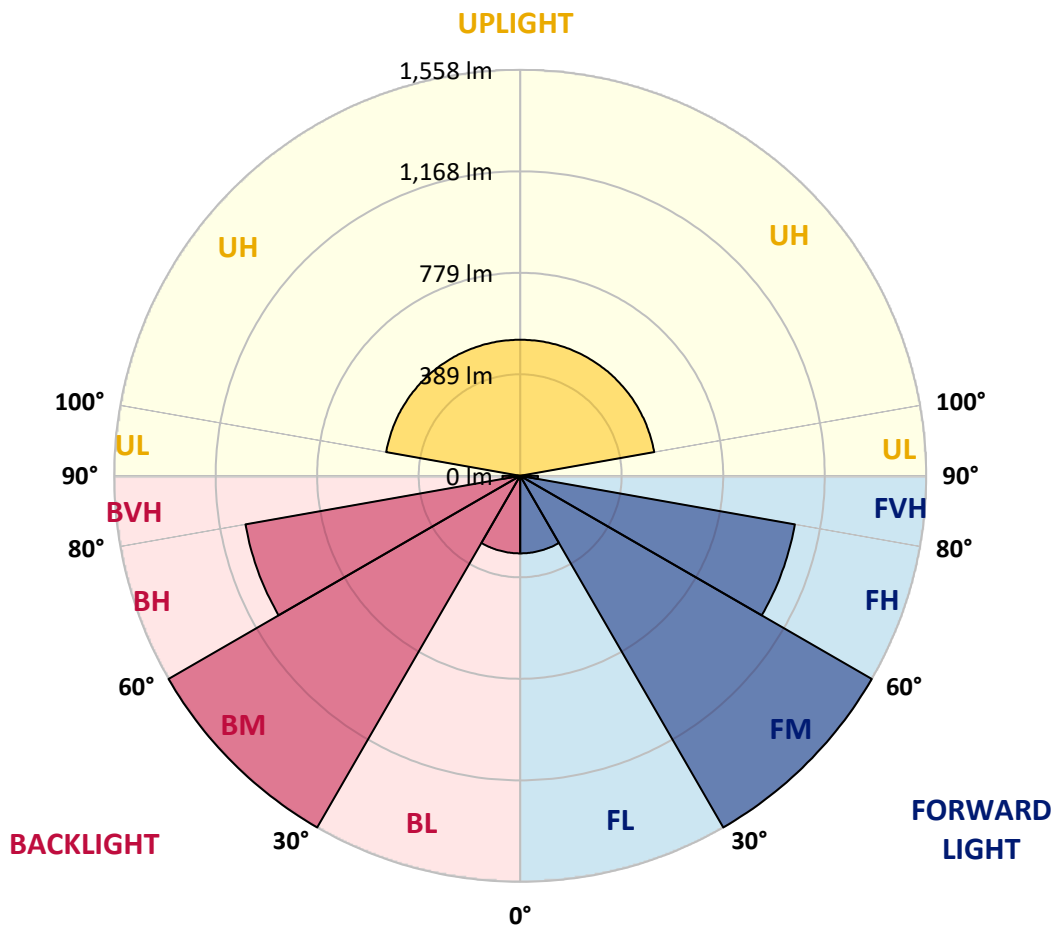


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	297.6	4.6			
FM (30°-60°)	1557.8	23.9			
FH (60°-80°)	1070.4	16.4			G1/1800
FVH (80°-90°)	68.0	1.0			G1/100
BL (0°-30°)	297.6	4.6	B1/500		
BM (30°-60°)	1557.8	23.9	B2/2500		
BH (60°-80°)	1070.4	16.4	B3/2500		G1/1800
BVH (80°-90°)	68.0	1.0			G1/100
UL (90°-100°)	11.9	0.2		U2/50	
UH (100°-180°)	522.1	8.0		U4/1000	

BUG Rating: B3-U4-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6
2.5°	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4
5°	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6	565.6
7.5°	560.4	560.4	565.6	565.6	565.6	565.6	565.6	565.6	565.6	560.4	560.4
10°	565.6	565.6	565.6	570.8	570.8	570.8	570.8	570.8	565.6	565.6	565.6
12.5°	576.0	576.0	581.1	581.1	581.1	581.1	581.1	581.1	581.1	576.0	576.0
15°	601.9	601.9	601.9	607.1	607.1	607.1	607.1	607.1	601.9	601.9	601.9
17.5°	627.8	627.8	633.0	633.0	638.2	638.2	638.2	633.0	633.0	633.0	633.0
20°	664.2	664.2	669.4	669.4	674.5	679.7	679.7	674.5	669.4	669.4	669.4
22.5°	710.9	716.0	716.0	716.0	721.2	731.6	726.4	721.2	716.0	716.0	716.0
25°	767.9	773.1	778.3	778.3	783.5	793.9	793.9	778.3	778.3	778.3	778.3
27.5°	835.4	840.6	845.8	845.8	851.0	861.3	856.1	845.8	845.8	840.6	840.6
30°	897.7	902.8	908.0	913.2	918.4	923.6	923.6	913.2	908.0	902.8	897.7
32.5°	959.9	959.9	970.3	980.7	991.1	991.1	996.2	980.7	970.3	959.9	954.7
35°	1022.2	1027.4	1032.6	1048.1	1063.7	1068.9	1063.7	1048.1	1032.6	1022.2	1022.2
37.5°	1089.6	1094.8	1100.0	1120.8	1136.3	1146.7	1136.3	1120.8	1100.0	1089.6	1084.5
40°	1162.3	1167.5	1172.7	1198.6	1214.2	1224.5	1209.0	1193.4	1172.7	1162.3	1157.1
42.5°	1229.7	1240.1	1250.5	1281.6	1307.6	1317.9	1302.4	1276.4	1255.7	1229.7	1224.5
45°	1312.8	1323.1	1338.7	1369.8	1395.8	1411.3	1390.6	1364.6	1333.5	1312.8	1307.6
47.5°	1380.2	1390.6	1406.2	1447.7	1484.0	1494.4	1473.6	1442.5	1401.0	1375.0	1369.8
50°	1432.1	1442.5	1473.6	1520.3	1561.8	1572.2	1551.4	1509.9	1463.2	1426.9	1421.7
52.5°	1473.6	1484.0	1520.3	1582.6	1629.3	1644.8	1618.9	1572.2	1509.9	1468.4	1463.2
55°	1494.4	1499.6	1546.3	1613.7	1660.4	1681.2	1655.2	1603.3	1535.9	1489.2	1484.0
57.5°	1478.8	1484.0	1535.9	1608.5	1660.4	1686.3	1660.4	1598.1	1525.5	1478.8	1473.6
60°	1447.7	1447.7	1494.4	1577.4	1639.7	1655.2	1629.3	1567.0	1489.2	1442.5	1437.3
62.5°	1390.6	1385.4	1442.5	1515.1	1577.4	1593.0	1572.2	1509.9	1432.1	1385.4	1380.2
65°	1281.6	1271.2	1354.3	1421.7	1478.8	1494.4	1478.8	1421.7	1349.1	1276.4	1266.1
67.5°	1151.9	1136.3	1214.2	1292.0	1343.9	1364.6	1343.9	1297.2	1214.2	1141.5	1136.3
70°	1017.0	1001.4	1063.7	1131.2	1188.2	1198.6	1177.9	1131.2	1053.3	1006.6	1006.6
72.5°	856.1	840.6	897.7	949.5	1006.6	1017.0	996.2	954.7	897.7	851.0	845.8
75°	679.7	664.2	716.0	757.6	814.6	819.8	809.4	762.7	716.0	669.4	669.4
77.5°	503.3	487.7	529.3	565.6	612.3	612.3	607.1	570.8	529.3	498.1	498.1
80°	332.1	321.7	358.0	373.6	415.1	415.1	409.9	384.0	352.8	332.1	326.9
82.5°	186.8	176.4	207.6	212.7	243.9	243.9	238.7	217.9	197.2	181.6	181.6
85°	72.6	62.3	83.0	88.2	103.8	103.8	98.6	93.4	77.8	67.5	67.5
87.5°	5.2	5.2	10.4	10.4	15.6	15.6	15.6	10.4	10.4	5.2	5.2
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



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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)