

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: P834047

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P834047
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-CG-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6298.8 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B3 - U4 - G3

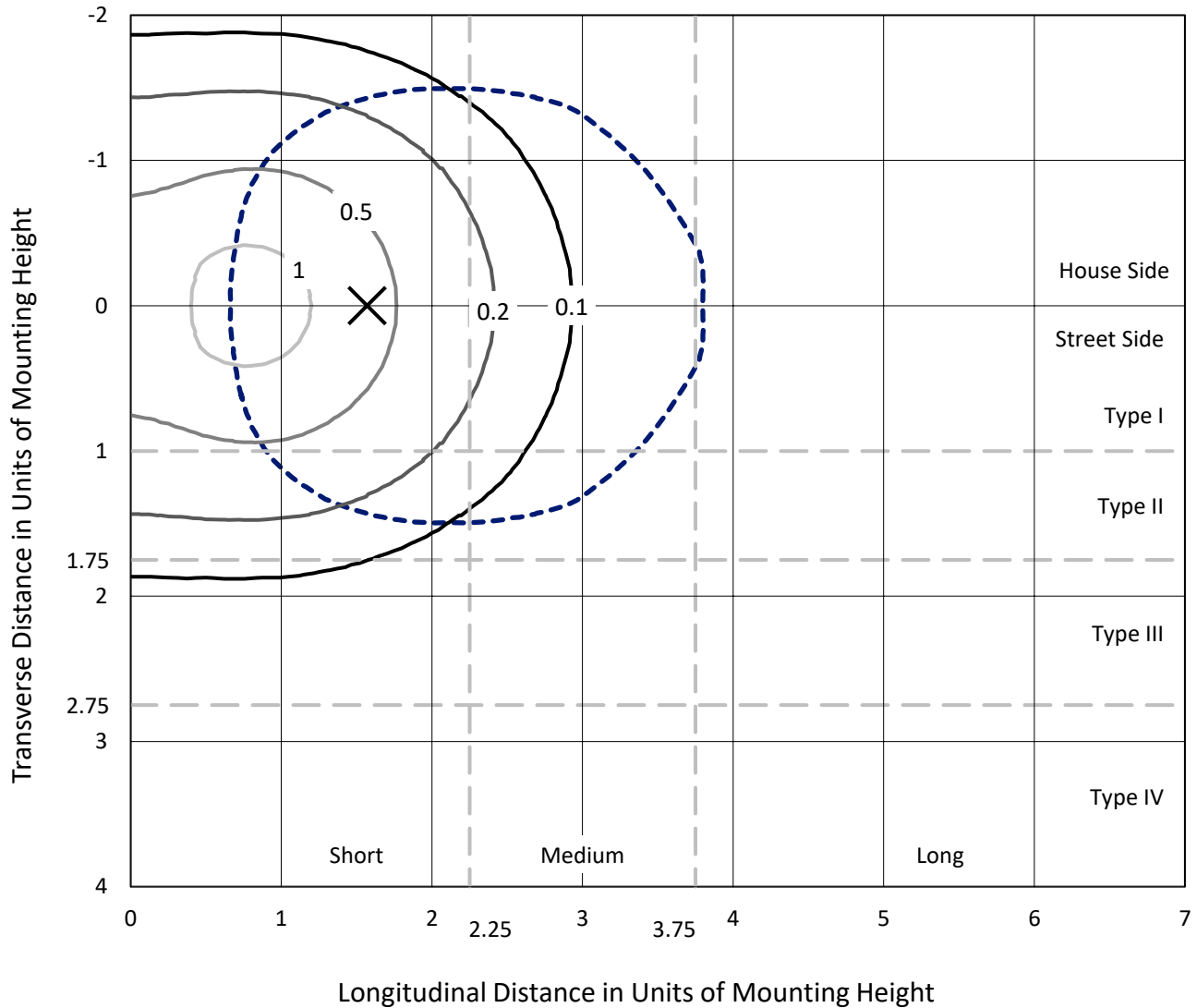
Input Watts (W): 63.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

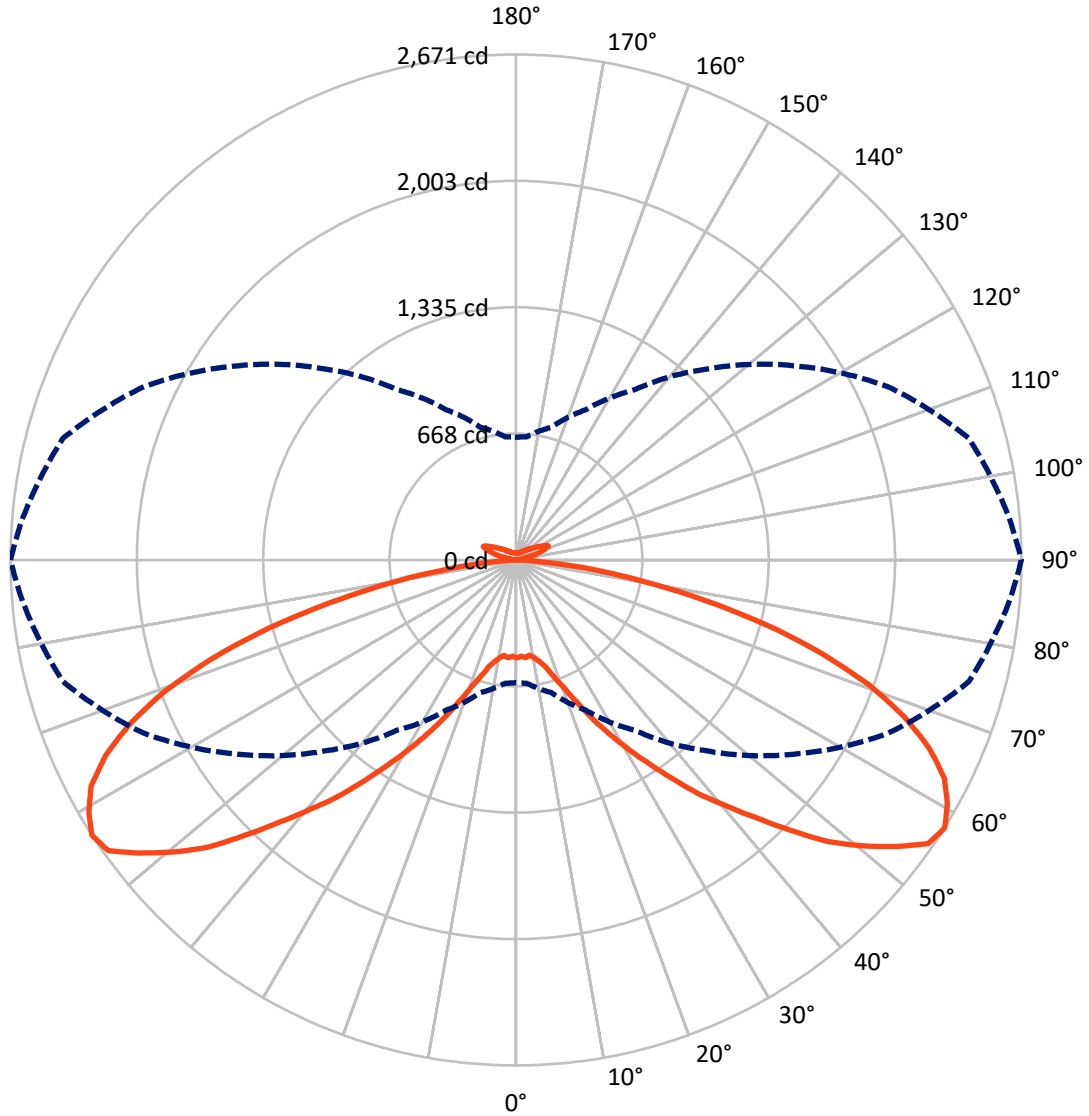
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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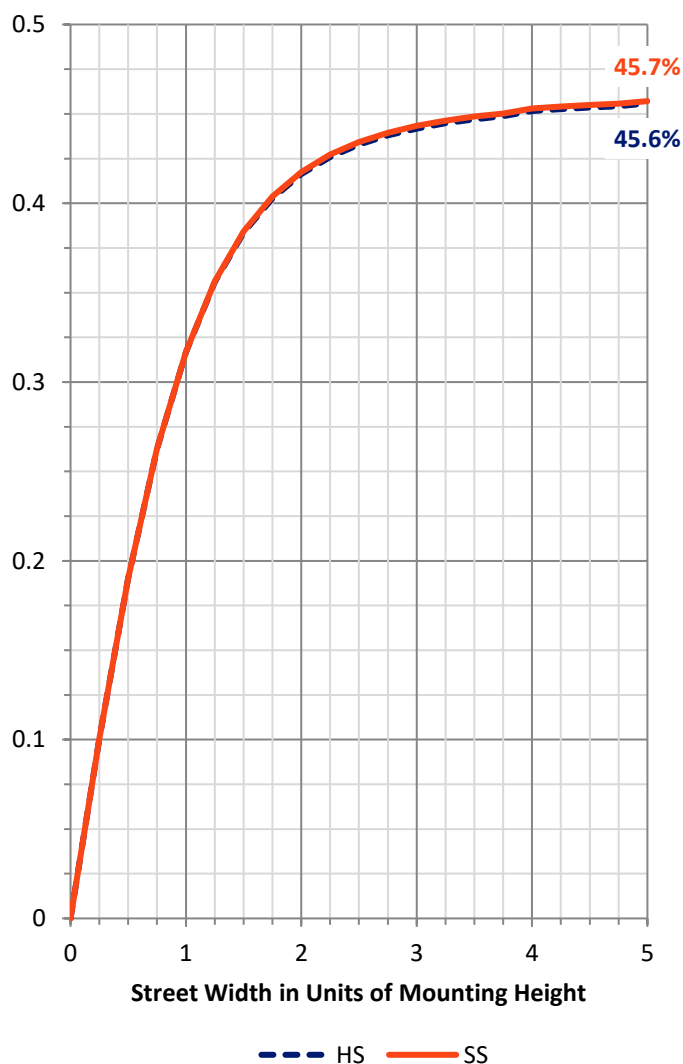
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2882.4	267.0	3149.4
	% Fixture	45.8	4.2	50.0
Street Side	Lumens	2882.4	267.0	3149.4
	% Fixture	45.8	4.2	50.0
Total	Lumens	5764.7	534.0	6298.8
	% Fixture	91.5	8.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	0.8
10°-20°	159.2	2.5
20°-30°	339.0	5.4
30°-40°	624.8	9.9
40°-50°	1005.9	16.0
50°-60°	1361.5	21.6
60°-70°	1323.8	21.0
70°-80°	770.2	12.2
80°-90°	130.9	2.1
90°-100°	11.9	0.2
100°-110°	121.1	1.9
110°-120°	177.1	2.8
120°-130°	102.8	1.6
130°-140°	54.4	0.9
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°	5764.7	91.5
0°-180°	6298.8	100.0

Coefficient of Utilization



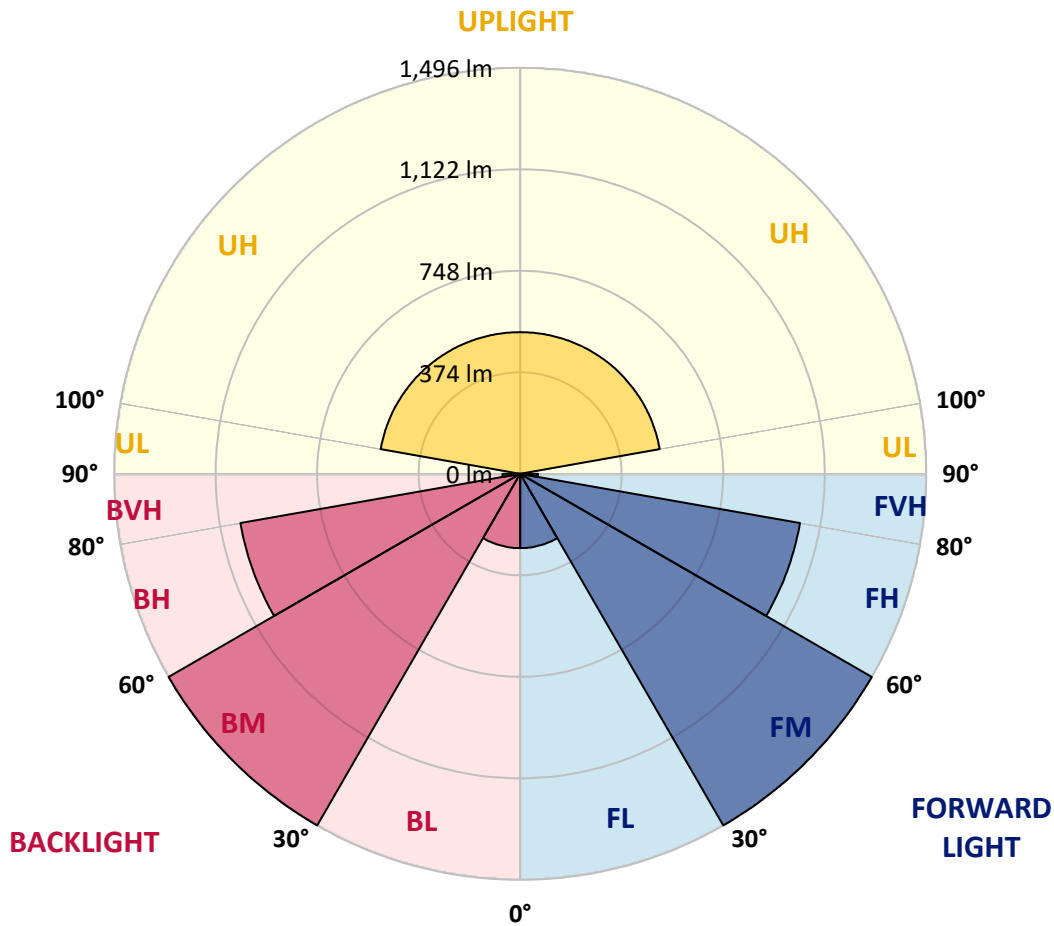
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	273.8	4.3			
FM (30°-60°)	1496.1	23.8			
FH (60°-80°)	1047.0	16.6			G1/1800
FVH (80°-90°)	65.5	1.0			G1/100
BL (0°-30°)	273.8	4.3	B1/500		
BM (30°-60°)	1496.1	23.8	B2/2500		
BH (60°-80°)	1047.0	16.6	B3/2500		G3/2500
BVH (80°-90°)	65.5	1.0			G1/100
UL (90°-100°)	11.9	0.2		U2/50	
UH (100°-180°)	522.1	8.3		U4/1000	

BUG Rating: B3-U4-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.6
2.5°	518.6	518.6	518.6	518.6	513.4	513.4	513.4	508.2	508.2	508.2	508.2
5°	518.6	518.6	518.6	523.8	523.8	523.8	518.6	518.6	518.6	518.6	518.6
7.5°	518.6	523.8	523.8	518.6	518.6	513.4	513.4	513.4	508.2	508.2	508.2
10°	518.6	518.6	518.6	518.6	513.4	513.4	518.6	518.6	523.8	523.8	523.8
12.5°	513.4	513.4	518.6	518.6	518.6	523.8	534.2	539.4	544.5	549.7	549.7
15°	518.6	518.6	523.8	529.0	534.2	544.5	560.1	575.7	586.0	591.2	586.0
17.5°	518.6	523.8	529.0	539.4	554.9	570.5	596.4	617.1	637.9	643.1	648.3
20°	529.0	529.0	534.2	554.9	580.8	606.8	643.1	679.4	705.3	715.7	715.7
22.5°	534.2	539.4	544.5	570.5	612.0	653.5	705.3	746.8	783.1	803.8	809.0
25°	549.7	549.7	560.1	596.4	648.3	710.5	777.9	840.2	886.8	912.8	917.9
27.5°	560.1	565.3	580.8	627.5	694.9	772.7	866.1	938.7	995.7	1026.9	1032.0
30°	570.5	575.7	606.8	658.6	741.6	835.0	943.9	1037.2	1109.8	1146.1	1151.3
32.5°	586.0	591.2	627.5	684.6	783.1	897.2	1021.7	1135.8	1239.5	1270.6	1275.8
35°	601.6	606.8	648.3	715.7	829.8	959.4	1104.6	1239.5	1363.9	1405.4	1415.8
37.5°	617.1	622.3	663.8	746.8	876.5	1026.9	1198.0	1358.8	1493.6	1550.7	1566.2
40°	632.7	637.9	684.6	777.9	923.1	1099.5	1296.5	1472.9	1628.4	1695.9	1706.2
42.5°	643.1	648.3	700.1	803.8	969.8	1166.9	1400.3	1597.3	1763.3	1851.4	1861.8
45°	658.6	663.8	720.9	840.2	1011.3	1244.7	1498.8	1737.4	1929.2	2027.8	2038.1
47.5°	669.0	674.2	736.4	860.9	1058.0	1317.3	1602.5	1861.8	2090.0	2193.7	2224.8
50°	674.2	679.4	746.8	881.6	1089.1	1369.1	1685.5	1986.3	2230.0	2359.7	2375.2
52.5°	674.2	684.6	752.0	897.2	1109.8	1415.8	1752.9	2090.0	2364.9	2510.1	2515.3
55°	669.0	674.2	746.8	892.0	1120.2	1436.6	1799.6	2152.2	2458.2	2598.2	2644.9
57.5°	648.3	653.5	726.1	876.5	1099.5	1426.2	1789.2	2167.8	2479.0	2613.8	2670.9
60°	617.1	627.5	694.9	840.2	1068.3	1389.9	1758.1	2136.7	2447.8	2613.8	2619.0
62.5°	580.8	586.0	653.5	793.5	1021.7	1332.8	1701.0	2074.4	2375.2	2546.4	2541.2
65°	529.0	534.2	591.2	736.4	938.7	1223.9	1587.0	1975.9	2235.2	2416.7	2401.2
67.5°	471.9	477.1	529.0	658.6	840.2	1104.6	1431.4	1810.0	2038.1	2224.8	2214.5
70°	409.7	409.7	456.4	565.3	736.4	969.8	1260.2	1592.1	1820.3	1975.9	1981.1
72.5°	337.1	337.1	378.6	471.9	617.1	814.2	1063.2	1358.8	1545.5	1680.3	1690.7
75°	264.5	259.3	295.6	373.4	487.5	648.3	840.2	1094.3	1239.5	1369.1	1363.9
77.5°	186.7	186.7	207.4	269.7	352.7	482.3	622.3	824.6	923.1	1032.0	1011.3
80°	119.3	119.3	129.7	176.3	233.4	321.5	409.7	560.1	627.5	710.5	684.6
82.5°	62.2	57.0	67.4	93.4	124.5	176.3	228.2	326.7	357.8	420.1	399.3
85°	20.7	20.7	20.7	31.1	46.7	67.4	88.2	140.0	145.2	186.7	171.1
87.5°	5.2	0.0	0.0	5.2	5.2	5.2	5.2	15.6	15.6	31.1	20.7
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)