

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: P833928

Luminaire Tested: **TTN-D3-740-U-RW-CG-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833928
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-D3-740-U-RW-CG-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7245.6 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B3 - U4 - G3

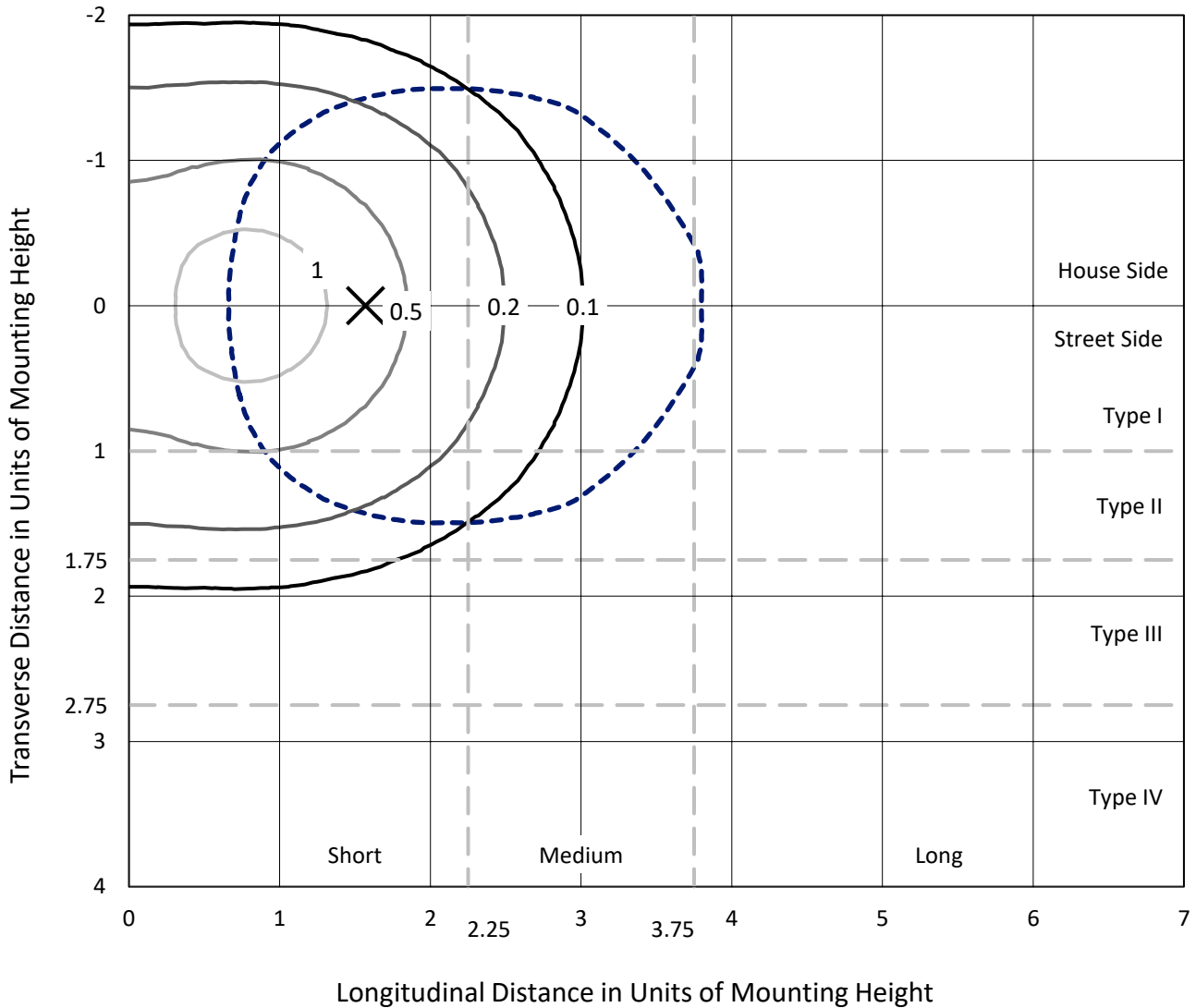
Input Watts (W): 66.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

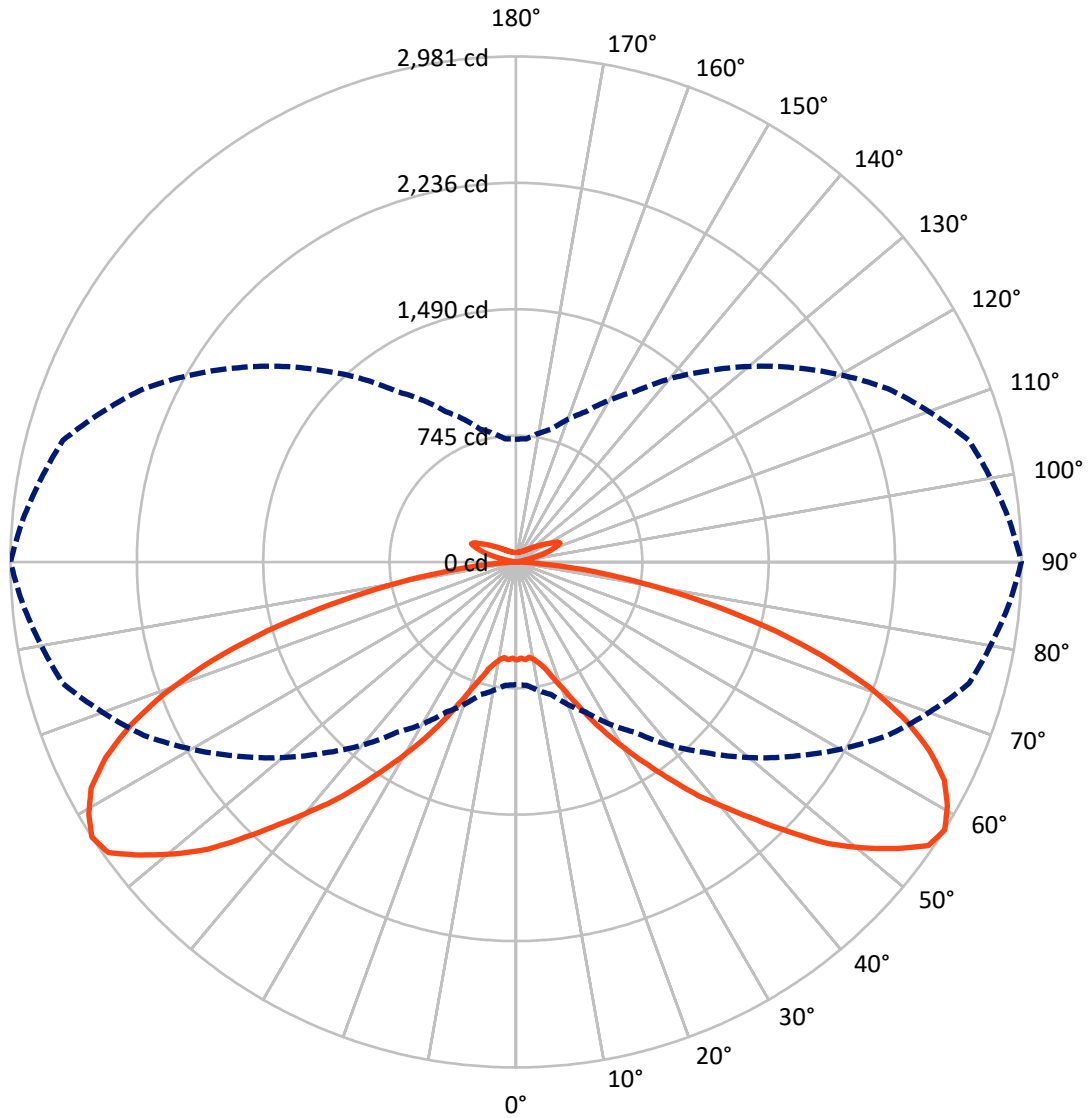
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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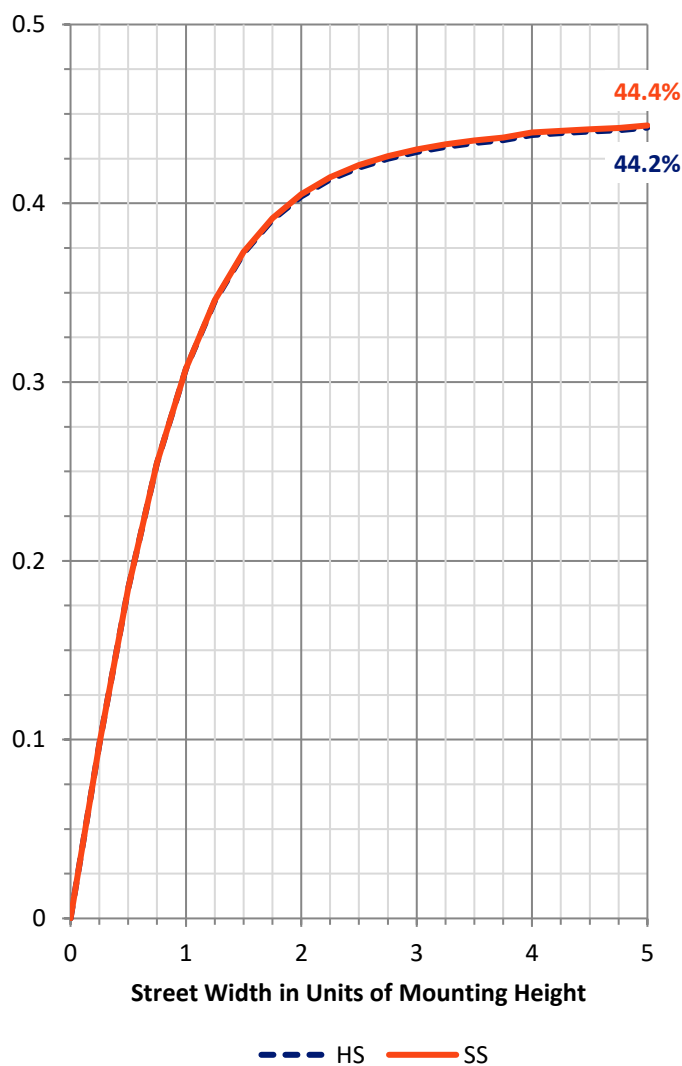
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3217.0	405.8	3622.8
	% Fixture	44.4	5.6	50.0
Street Side	Lumens	3217.0	405.8	3622.8
	% Fixture	44.4	5.6	50.0
Total	Lumens	6434.1	811.5	7245.6
	% Fixture	88.8	11.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	0.8
10°-20°	177.7	2.5
20°-30°	378.3	5.2
30°-40°	697.3	9.6
40°-50°	1122.7	15.5
50°-60°	1519.5	21.0
60°-70°	1477.4	20.4
70°-80°	859.6	11.9
80°-90°	146.4	2.0
90°-100°	18.1	0.3
100°-110°	184.1	2.5
110°-120°	269.1	3.7
120°-130°	156.2	2.2
130°-140°	82.7	1.1
140°-150°	49.1	0.7
150°-160°	30.3	0.4
160°-170°	16.5	0.2
170°-180°	5.4	0.1
0°-90°	6434.1	88.8
0°-180°	7245.6	100.0

Coefficient of Utilization

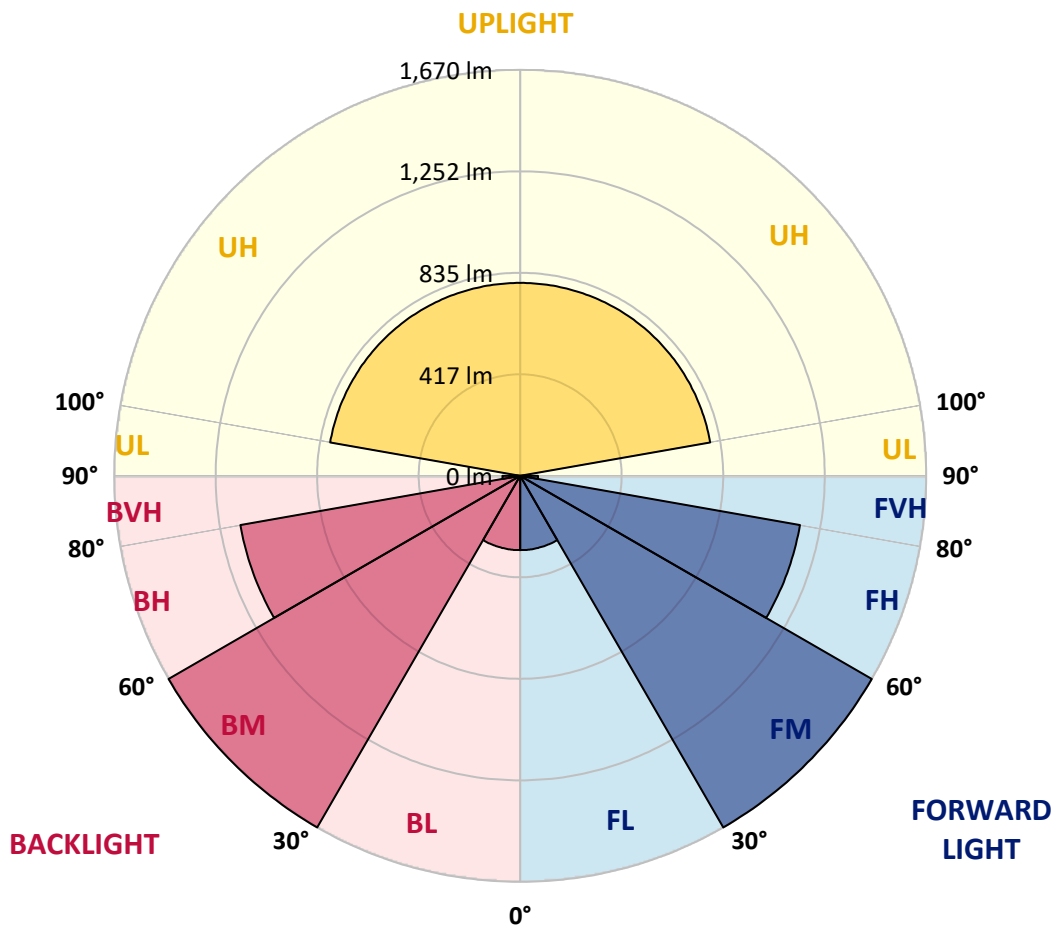


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	305.6	4.2			
FM (30°-60°)	1669.7	23.0			
FH (60°-80°)	1168.5	16.1			G1/1800
FVH (80°-90°)	73.2	1.0			G1/100
BL (0°-30°)	305.6	4.2	B1/500		
BM (30°-60°)	1669.7	23.0	B2/2500		
BH (60°-80°)	1168.5	16.1	B3/2500		G3/2500
BVH (80°-90°)	73.2	1.0			G1/100
UL (90°-100°)	18.1	0.3		U2/50	
UH (100°-180°)	793.4	11.0		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°	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8
2.5°	578.8	578.8	578.8	578.8	573.0	573.0	573.0	567.2	567.2	567.2	567.2
5°	578.8	578.8	578.8	584.6	584.6	584.6	578.8	578.8	578.8	578.8	578.8
7.5°	578.8	584.6	584.6	578.8	578.8	573.0	573.0	573.0	567.2	567.2	567.2
10°	578.8	578.8	578.8	578.8	573.0	573.0	578.8	578.8	584.6	584.6	584.6
12.5°	573.0	573.0	578.8	578.8	578.8	584.6	596.2	602.0	607.7	613.5	613.5
15°	578.8	578.8	584.6	590.4	596.2	607.7	625.1	642.5	654.0	659.8	654.0
17.5°	578.8	584.6	590.4	602.0	619.3	636.7	665.6	688.8	711.9	717.7	723.5
20°	590.4	590.4	596.2	619.3	648.3	677.2	717.7	758.2	787.2	798.8	798.8
22.5°	596.2	602.0	607.7	636.7	683.0	729.3	787.2	833.5	874.0	897.1	902.9
25°	613.5	613.5	625.1	665.6	723.5	793.0	868.2	937.7	989.8	1018.7	1024.5
27.5°	625.1	630.9	648.3	700.4	775.6	862.4	966.6	1047.6	1111.3	1146.0	1151.8
30°	636.7	642.5	677.2	735.1	827.7	931.9	1053.4	1157.6	1238.6	1279.2	1284.9
32.5°	654.0	659.8	700.4	764.0	874.0	1001.3	1140.2	1267.6	1383.3	1418.1	1423.9
35°	671.4	677.2	723.5	798.8	926.1	1070.8	1232.9	1383.3	1522.3	1568.6	1580.1
37.5°	688.8	694.6	740.9	833.5	978.2	1146.0	1337.0	1516.5	1667.0	1730.6	1748.0
40°	706.1	711.9	764.0	868.2	1030.3	1227.1	1447.0	1643.8	1817.4	1892.7	1904.3
42.5°	717.7	723.5	781.4	897.1	1082.4	1302.3	1562.8	1782.7	1967.9	2066.3	2077.9
45°	735.1	740.9	804.5	937.7	1128.7	1389.1	1672.7	1939.0	2153.2	2263.1	2274.7
47.5°	746.7	752.4	821.9	960.8	1180.8	1470.2	1788.5	2077.9	2332.6	2448.3	2483.1
50°	752.4	758.2	833.5	984.0	1215.5	1528.0	1881.1	2216.8	2488.9	2633.6	2650.9
52.5°	752.4	764.0	839.3	1001.3	1238.6	1580.1	1956.4	2332.6	2639.4	2801.4	2807.2
55°	746.7	752.4	833.5	995.5	1250.2	1603.3	2008.5	2402.0	2743.5	2899.8	2951.9
57.5°	723.5	729.3	810.3	978.2	1227.1	1591.7	1996.9	2419.4	2766.7	2917.2	2980.8
60°	688.8	700.4	775.6	937.7	1192.3	1551.2	1962.1	2384.7	2732.0	2917.2	2923.0
62.5°	648.3	654.0	729.3	885.6	1140.2	1487.5	1898.5	2315.2	2650.9	2841.9	2836.1
65°	590.4	596.2	659.8	821.9	1047.6	1366.0	1771.1	2205.2	2494.6	2697.2	2679.9
67.5°	526.7	532.5	590.4	735.1	937.7	1232.9	1597.5	2020.0	2274.7	2483.1	2471.5
70°	457.3	457.3	509.3	630.9	821.9	1082.4	1406.5	1776.9	2031.6	2205.2	2211.0
72.5°	376.2	376.2	422.5	526.7	688.8	908.7	1186.6	1516.5	1724.8	1875.3	1886.9
75°	295.2	289.4	329.9	416.7	544.1	723.5	937.7	1221.3	1383.3	1528.0	1522.3
77.5°	208.4	208.4	231.5	301.0	393.6	538.3	694.6	920.3	1030.3	1151.8	1128.7
80°	133.1	133.1	144.7	196.8	260.5	358.9	457.3	625.1	700.4	793.0	764.0
82.5°	69.5	63.7	75.2	104.2	138.9	196.8	254.7	364.6	399.4	468.8	445.7
85°	23.2	23.2	23.2	34.7	52.1	75.2	98.4	156.3	162.1	208.4	191.0
87.5°	5.8	0.0	0.0	5.8	5.8	5.8	5.8	17.4	17.4	34.7	23.2
90°	6.9	6.9	8.3	8.3	8.3	8.3	8.3	8.3	8.3	6.9	6.9
92.5°	6.9	6.9	6.9	9.7	11.1	9.7	11.1	8.3	8.3	6.9	6.9
95°	8.3	8.3	9.7	12.5	15.3	16.7	16.7	9.7	9.7	8.3	8.3
97.5°	11.1	12.5	12.5	15.3	25.0	45.8	27.8	13.9	13.9	12.5	11.1
100°	18.0	19.4	19.4	34.7	73.6	98.6	70.8	36.1	26.4	19.4	19.4
102.5°	58.3	61.1	75.0	112.5	166.6	151.3	127.7	120.8	83.3	66.6	63.9
105°	148.6	147.2	158.3	187.4	233.3	229.1	211.0	191.6	165.2	152.7	152.7
107.5°	195.8	195.8	205.5	230.5	265.2	309.6	313.8	248.5	218.0	204.1	202.7
110°	220.8	220.8	229.1	249.9	295.7	358.2	355.4	306.8	269.4	251.3	248.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	226.3	227.7	238.8	270.7	320.7	348.5	336.0	316.6	299.9	286.0	283.2
115°	234.6	234.6	247.1	277.7	305.5	316.6	302.7	287.4	276.3	270.7	273.5
117.5°	231.9	236.0	238.8	255.5	273.5	281.8	274.9	254.1	245.8	243.0	238.8
120°	215.2	215.2	218.0	226.3	236.0	240.2	237.4	223.5	216.6	215.2	212.4
122.5°	191.6	193.0	191.6	195.8	202.7	206.9	204.1	193.0	190.2	190.2	187.4
125°	168.0	168.0	166.6	169.4	173.6	172.2	173.6	168.0	166.6	166.6	165.2
127.5°	151.3	149.9	147.2	148.6	149.9	149.9	151.3	145.8	147.2	148.6	147.2
130°	134.7	134.7	131.9	131.9	131.9	129.1	131.9	129.1	130.5	131.9	133.3
132.5°	119.4	119.4	115.2	113.9	113.9	113.9	115.2	113.9	116.6	119.4	119.4
135°	106.9	106.9	102.7	104.1	104.1	102.7	104.1	102.7	105.5	106.9	106.9
137.5°	97.2	97.2	94.4	94.4	94.4	93.0	94.4	94.4	95.8	98.6	100.0
140°	88.9	88.9	87.5	87.5	86.1	87.5	87.5	87.5	88.9	90.2	90.2
142.5°	84.7	83.3	81.9	80.5	81.9	81.9	81.9	80.5	81.9	84.7	84.7
145°	77.8	77.8	76.4	76.4	76.4	77.8	76.4	76.4	77.8	77.8	79.1
147.5°	73.6	73.6	72.2	73.6	73.6	73.6	73.6	72.2	73.6	73.6	75.0
150°	72.2	70.8	69.4	70.8	70.8	69.4	69.4	69.4	69.4	70.8	70.8
152.5°	68.0	68.0	66.6	68.0	66.6	66.6	66.6	66.6	66.6	68.0	69.4
155°	65.3	65.3	63.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
157.5°	62.5	63.9	62.5	62.5	62.5	62.5	62.5	62.5	62.5	63.9	63.9
160°	61.1	61.1	61.1	61.1	59.7	59.7	59.7	61.1	61.1	61.1	62.5
162.5°	59.7	59.7	59.7	59.7	58.3	58.3	58.3	58.3	59.7	59.7	61.1
165°	59.7	58.3	58.3	58.3	56.9	56.9	56.9	56.9	58.3	59.7	58.3
167.5°	56.9	56.9	56.9	56.9	56.9	55.5	55.5	56.9	56.9	56.9	58.3
170°	56.9	56.9	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	56.9
172.5°	56.9	56.9	56.9	56.9	55.5	55.5	55.5	55.5	55.5	56.9	56.9
175°	56.9	56.9	56.9	56.9	55.5	55.5	55.5	56.9	56.9	56.9	55.5
177.5°	56.9	56.9	56.9	56.9	55.5	56.9	56.9	56.9	56.9	56.9	56.9
180°	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9

(END OF REPORT)