

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: P833577

Luminaire Tested: **TTN-D2-740-U-WQ-SG-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833577
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-D2-740-U-WQ-SG-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH SOLITE GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5733.6 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U4 - G1

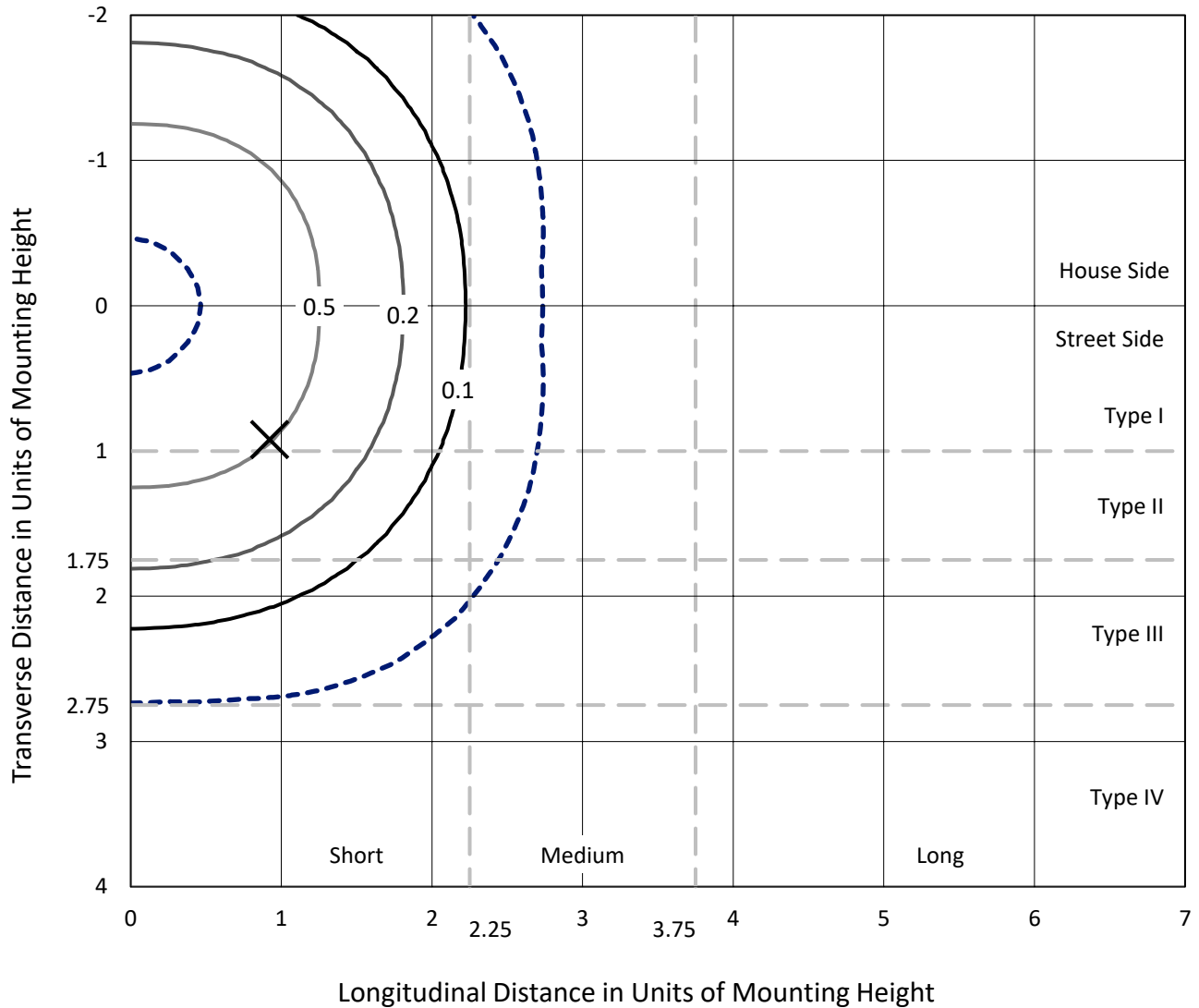
Input Watts (W): 49.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

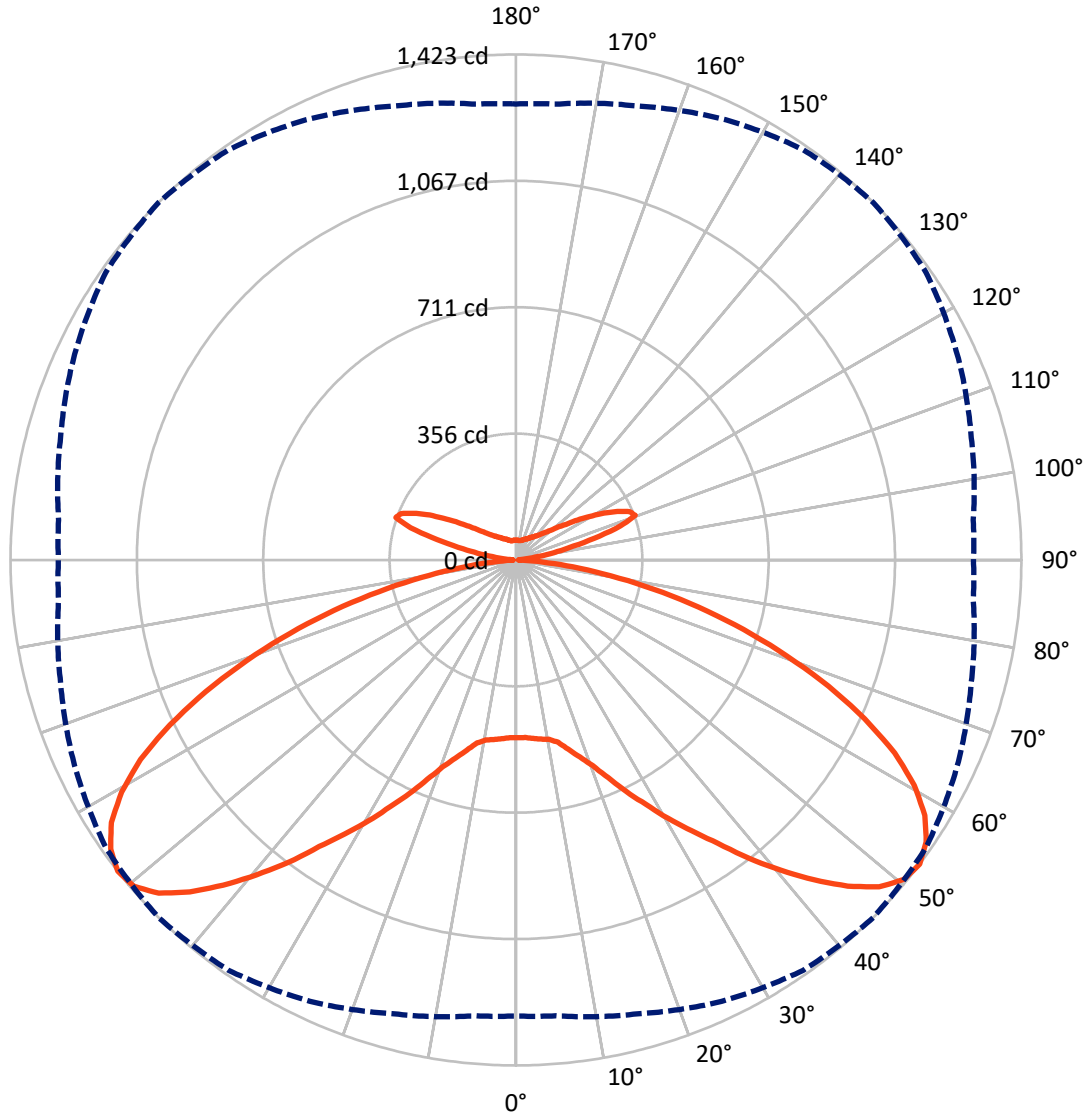
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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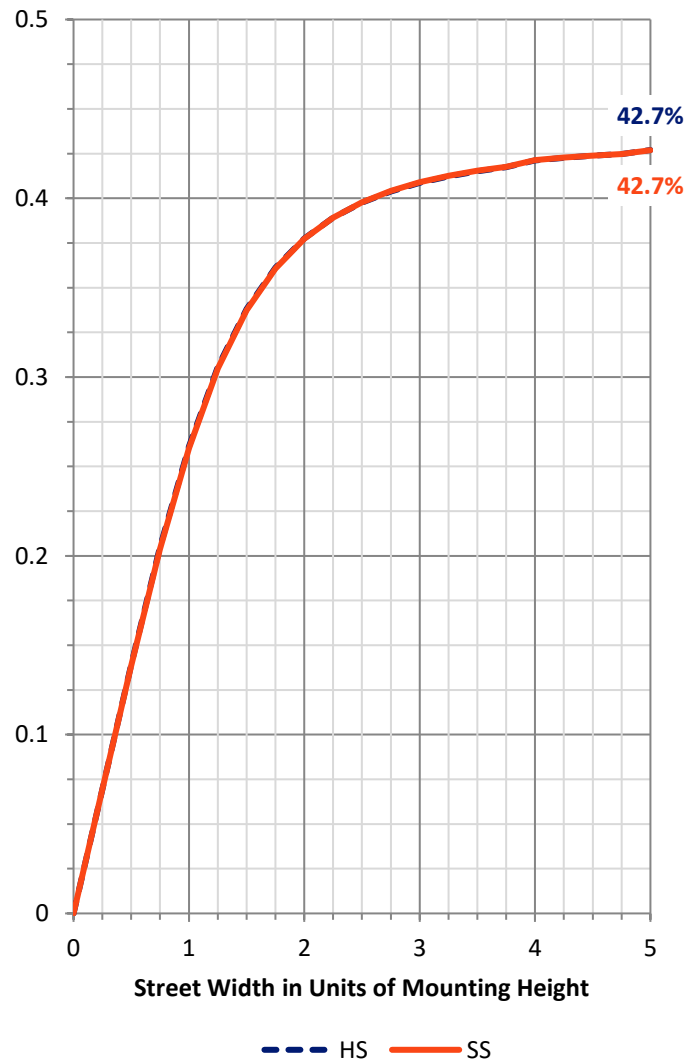
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2461.1	405.8	2866.8
	% Fixture	42.9	7.1	50.0
Street Side	Lumens	2461.1	405.8	2866.8
	% Fixture	42.9	7.1	50.0
Total	Lumens	4922.1	811.5	5733.6
	% Fixture	85.8	14.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	0.8
10°-20°	158.8	2.8
20°-30°	335.1	5.8
30°-40°	612.2	10.7
40°-50°	974.6	17.0
50°-60°	1178.5	20.6
60°-70°	990.9	17.3
70°-80°	525.3	9.2
80°-90°	98.3	1.7
90°-100°	18.1	0.3
100°-110°	184.1	3.2
110°-120°	269.1	4.7
120°-130°	156.2	2.7
130°-140°	82.7	1.4
140°-150°	49.1	0.9
150°-160°	30.3	0.5
160°-170°	16.5	0.3
170°-180°	5.4	0.1
0°-90°	4922.1	85.8
0°-180°	5733.6	100.0

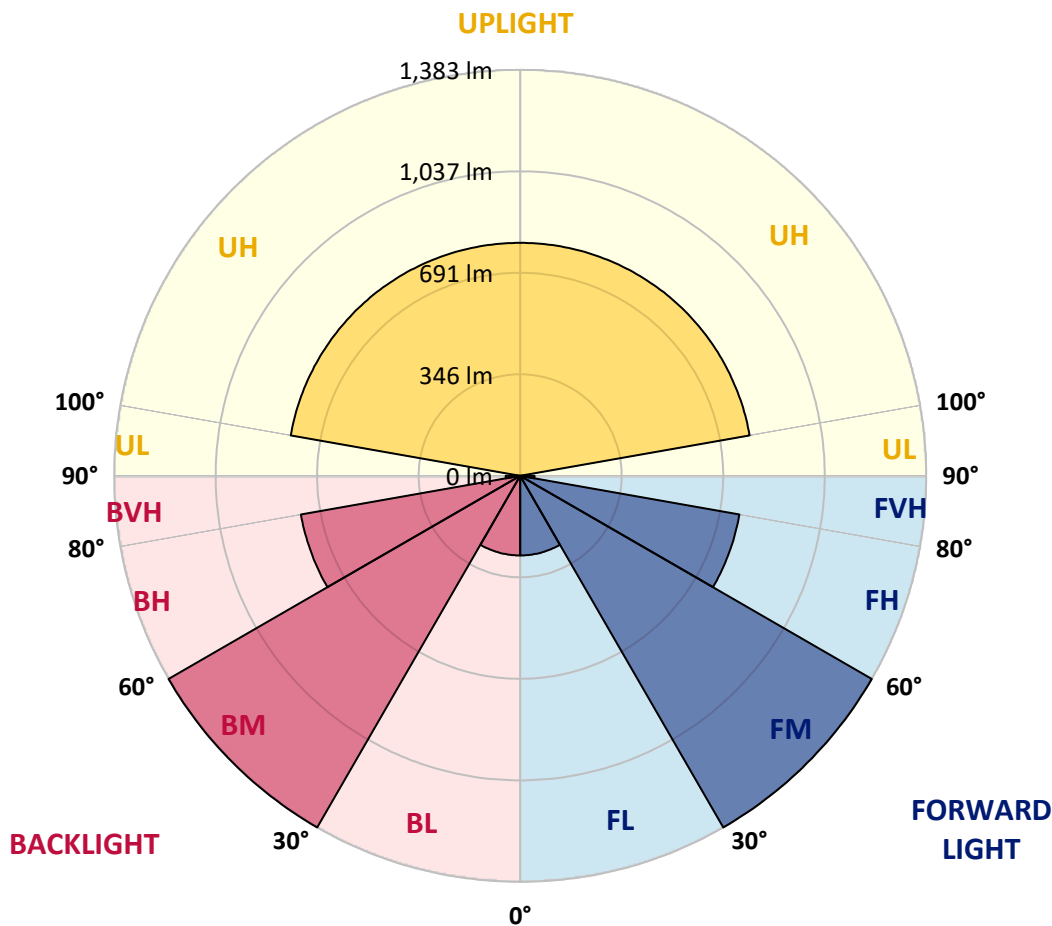


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	271.1	4.7			
FM (30°-60°)	1382.7	24.1			
FH (60°-80°)	758.1	13.2			G1/1800
FVH (80°-90°)	49.1	0.9			G1/100
BL (0°-30°)	271.1	4.7	B1/500		
BM (30°-60°)	1382.7	24.1	B2/2500		
BH (60°-80°)	758.1	13.2	B2/1000		G1/1800
BVH (80°-90°)	49.1	0.9			G1/100
UL (90°-100°)	18.1	0.3		U2/50	
UH (100°-180°)	793.4	13.8		U4/1000	

BUG Rating: B2-U4-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3
2.5°	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3
5°	504.7	504.7	500.3	504.7	504.7	504.7	504.7	504.7	504.7	504.7	504.7
7.5°	504.7	504.7	504.7	509.0	509.0	509.0	509.0	504.7	504.7	504.7	504.7
10°	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4
12.5°	526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4
15°	548.2	548.2	548.2	548.2	552.5	552.5	552.5	548.2	548.2	548.2	548.2
17.5°	574.3	574.3	578.6	578.6	583.0	583.0	583.0	578.6	574.3	578.6	574.3
20°	613.4	613.4	613.4	617.8	622.1	617.8	622.1	613.4	613.4	613.4	613.4
22.5°	656.9	656.9	656.9	661.3	665.6	665.6	665.6	656.9	656.9	656.9	656.9
25°	709.1	709.1	709.1	713.5	717.8	722.2	722.2	713.5	709.1	709.1	704.8
27.5°	761.3	761.3	770.0	774.4	778.7	778.7	778.7	770.0	765.7	765.7	765.7
30°	822.2	822.2	830.9	835.3	844.0	844.0	844.0	830.9	826.6	822.2	822.2
32.5°	878.8	883.1	891.8	900.5	909.3	909.3	913.6	896.2	887.5	883.1	883.1
35°	939.7	944.1	952.8	965.8	974.5	978.9	983.2	965.8	952.8	948.4	948.4
37.5°	1009.3	1013.7	1026.7	1039.8	1057.2	1065.9	1070.2	1044.1	1022.4	1013.7	1013.7
40°	1087.6	1092.0	1105.0	1122.4	1139.8	1148.5	1152.9	1126.8	1105.0	1096.3	1092.0
42.5°	1152.9	1161.6	1174.6	1200.7	1218.1	1231.2	1231.2	1200.7	1174.6	1161.6	1161.6
45°	1213.8	1222.5	1244.2	1270.3	1296.4	1309.5	1305.1	1274.7	1244.2	1226.8	1222.5
47.5°	1261.6	1270.3	1296.4	1326.9	1361.7	1374.8	1370.4	1335.6	1296.4	1274.7	1270.3
50°	1287.7	1292.1	1322.5	1366.1	1400.9	1413.9	1405.2	1370.4	1326.9	1296.4	1292.1
52.5°	1283.4	1287.7	1322.5	1370.4	1409.6	1422.6	1409.6	1370.4	1326.9	1292.1	1287.7
55°	1257.3	1261.6	1296.4	1348.6	1387.8	1400.9	1387.8	1348.6	1300.8	1266.0	1261.6
57.5°	1209.4	1213.8	1248.6	1300.8	1344.3	1357.3	1339.9	1296.4	1248.6	1213.8	1213.8
60°	1139.8	1144.2	1179.0	1235.5	1274.7	1287.7	1266.0	1231.2	1183.3	1144.2	1139.8
62.5°	1048.5	1048.5	1087.6	1144.2	1179.0	1196.4	1174.6	1135.5	1092.0	1048.5	1052.8
65°	939.7	935.4	974.5	1026.7	1065.9	1078.9	1057.2	1022.4	978.9	939.7	939.7
67.5°	826.6	826.6	857.0	900.5	935.4	948.4	926.7	896.2	861.4	826.6	826.6
70°	704.8	704.8	726.5	770.0	800.5	809.2	796.1	765.7	735.2	704.8	704.8
72.5°	583.0	578.6	600.4	635.2	661.3	670.0	656.9	639.5	604.7	583.0	583.0
75°	461.2	456.8	469.9	500.3	522.1	530.8	517.7	504.7	478.6	461.2	461.2
77.5°	343.7	339.3	352.4	378.5	391.5	395.9	387.2	378.5	356.7	343.7	343.7
80°	234.9	230.6	239.3	256.7	269.7	269.7	265.4	261.0	243.6	234.9	239.3
82.5°	139.2	134.9	143.6	156.6	165.3	161.0	161.0	156.6	143.6	139.2	139.2
85°	60.9	56.6	60.9	69.6	78.3	74.0	74.0	74.0	65.3	60.9	60.9
87.5°	8.7	8.7	8.7	13.1	17.4	13.1	13.1	13.1	8.7	8.7	8.7
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)