

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: P833936

Luminaire Tested: **TTN-D3-740-U-WQ-SG-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833936
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-WQ-SG-UPL2
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: 7134.7 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G1

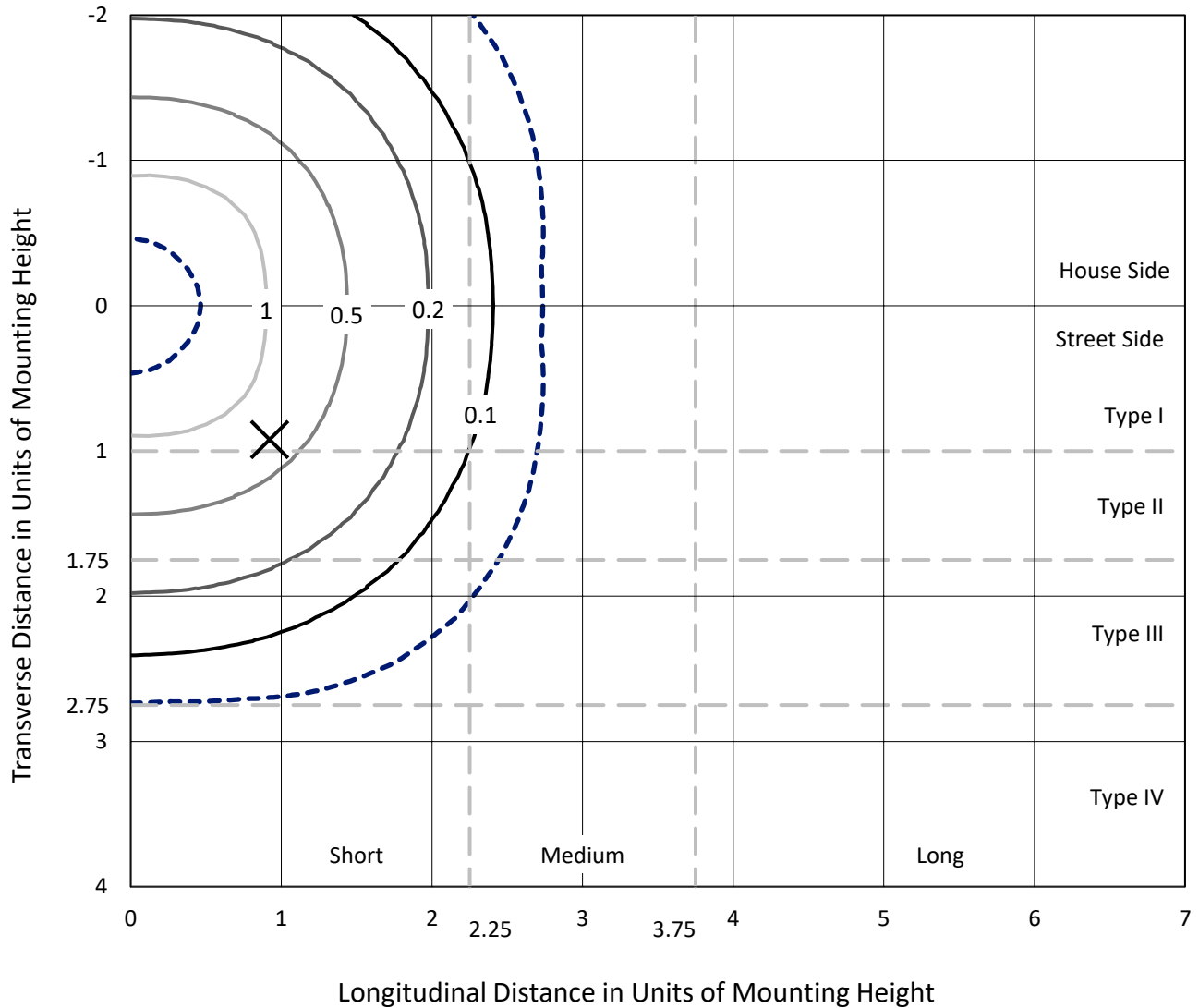
Input Watts (W): 63.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

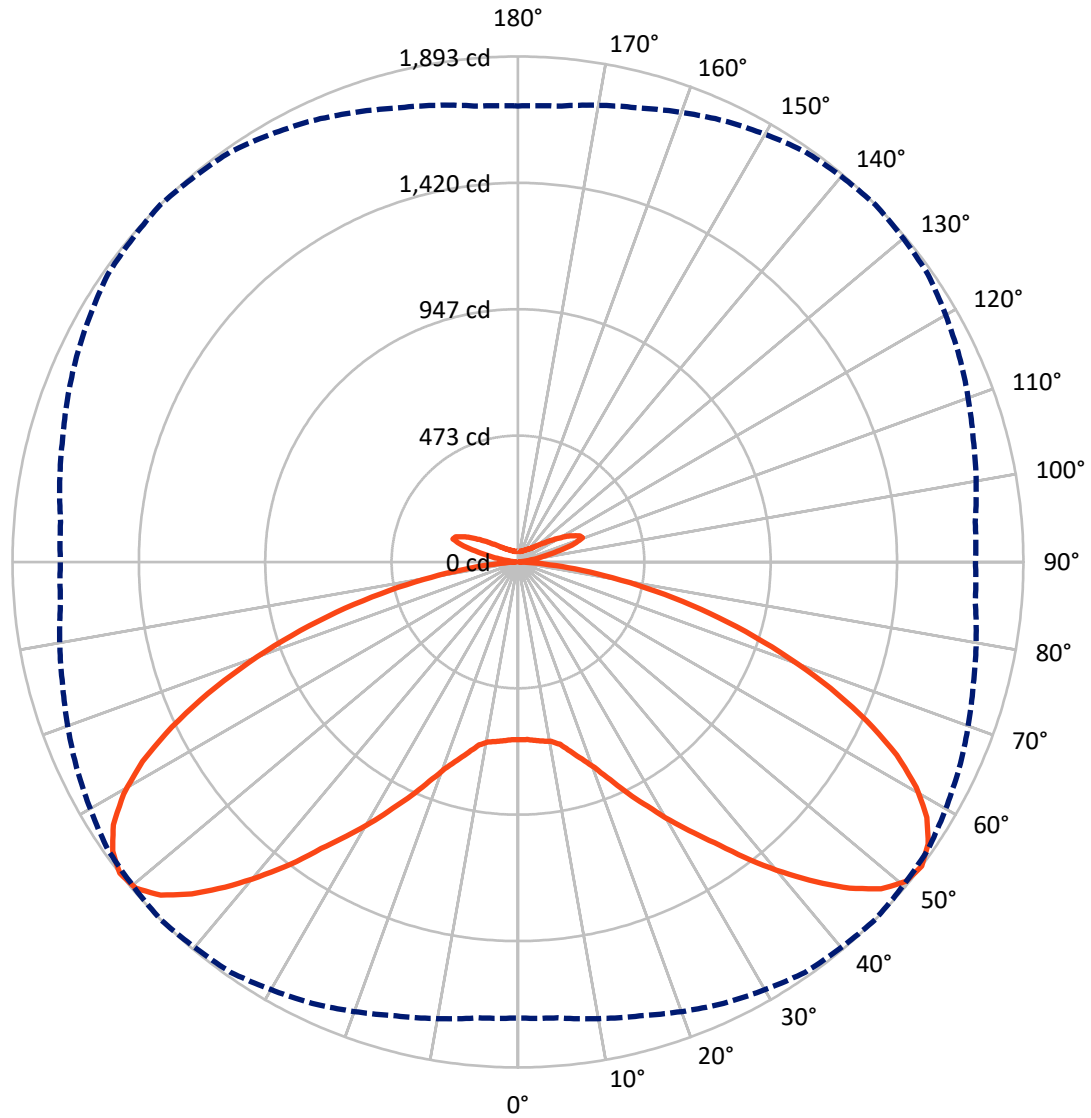
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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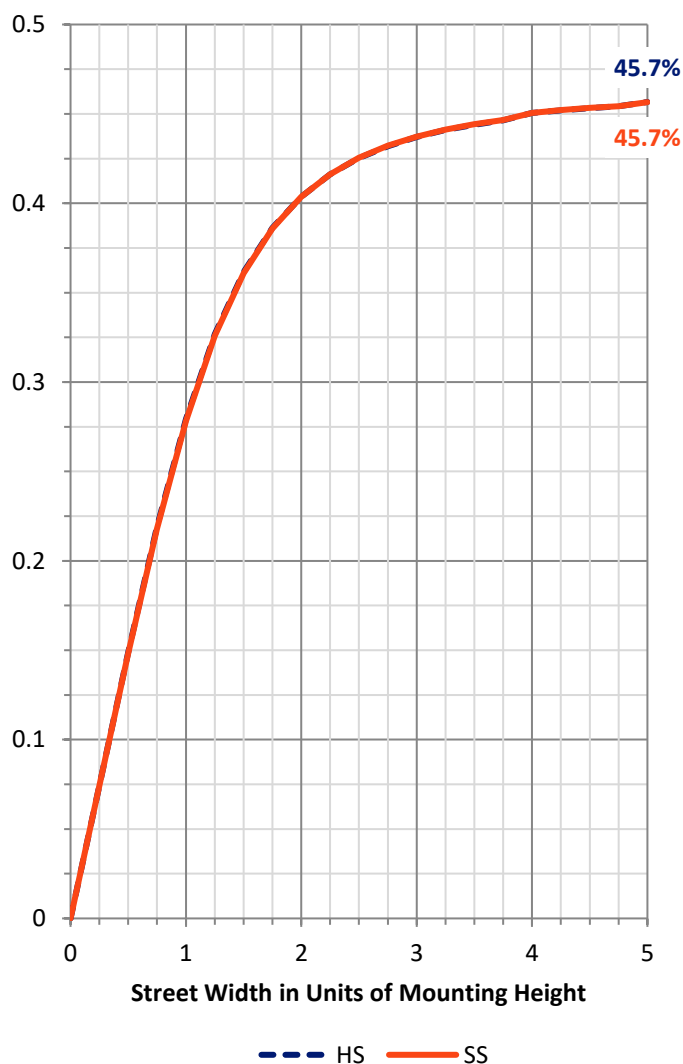
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3274.9	292.5	3567.4
	% Fixture	45.9	4.1	50.0
Street Side	Lumens	3274.9	292.5	3567.4
	% Fixture	45.9	4.1	50.0
Total	Lumens	6549.8	584.9	7134.7
	% Fixture	91.8	8.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	0.9
10°-20°	211.3	3.0
20°-30°	446.0	6.3
30°-40°	814.8	11.4
40°-50°	1297.1	18.2
50°-60°	1568.4	22.0
60°-70°	1318.7	18.5
70°-80°	699.0	9.8
80°-90°	130.1	1.8
90°-100°	13.1	0.2
100°-110°	132.7	1.9
110°-120°	194.0	2.7
120°-130°	112.6	1.6
130°-140°	59.7	0.8
140°-150°	35.4	0.5
150°-160°	21.8	0.3
160°-170°	11.9	0.2
170°-180°	3.9	0.1
0°-90°	6549.8	91.8
0°-180°	7134.7	100.0

Coefficient of Utilization



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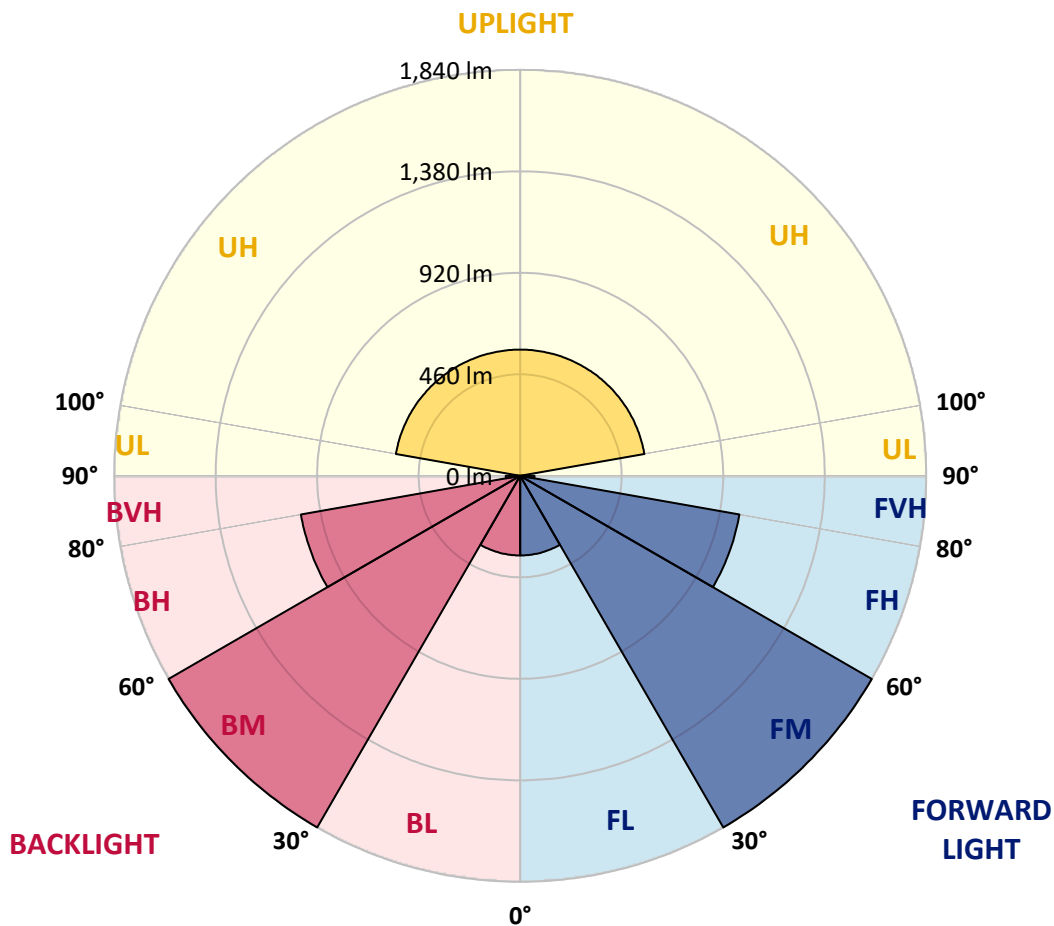
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.8	5.1			
FM (30°-60°)	1840.1	25.8			
FH (60°-80°)	1008.9	14.1			G1/1800
FVH (80°-90°)	65.1	0.9			G1/100
BL (0°-30°)	360.8	5.1	B1/500		
BM (30°-60°)	1840.1	25.8	B2/2500		
BH (60°-80°)	1008.9	14.1	B3/2500		G1/1800
BVH (80°-90°)	65.1	0.9			G1/100
UL (90°-100°)	13.1	0.2		U2/50	
UH (100°-180°)	571.8	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°	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8
2.5°	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8
5°	671.6	671.6	665.8	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6
7.5°	671.6	671.6	671.6	677.4	677.4	677.4	677.4	671.6	671.6	671.6	671.6
10°	683.2	683.2	683.2	683.2	683.2	683.2	683.2	683.2	683.2	683.2	683.2
12.5°	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6
15°	729.5	729.5	729.5	729.5	735.3	735.3	735.3	729.5	729.5	729.5	729.5
17.5°	764.2	764.2	770.0	770.0	775.8	775.8	775.8	770.0	764.2	770.0	764.2
20°	816.4	816.4	816.4	822.1	827.9	827.9	827.9	816.4	816.4	816.4	816.4
22.5°	874.3	874.3	874.3	880.0	885.8	885.8	885.8	874.3	874.3	874.3	874.3
25°	943.7	943.7	943.7	949.5	955.3	961.1	961.1	949.5	943.7	943.7	937.9
27.5°	1013.2	1013.2	1024.8	1030.6	1036.4	1036.4	1036.4	1024.8	1019.0	1019.0	1019.0
30°	1094.3	1094.3	1105.8	1111.6	1123.2	1123.2	1123.2	1105.8	1100.0	1094.3	1094.3
32.5°	1169.5	1175.3	1186.9	1198.5	1210.1	1210.1	1215.8	1192.7	1181.1	1175.3	1175.3
35°	1250.6	1256.4	1268.0	1285.3	1296.9	1302.7	1308.5	1285.3	1268.0	1262.2	1262.2
37.5°	1343.2	1349.0	1366.4	1383.7	1406.9	1418.5	1424.3	1389.5	1360.6	1349.0	1349.0
40°	1447.4	1453.2	1470.6	1493.8	1516.9	1528.5	1534.3	1499.5	1470.6	1459.0	1453.2
42.5°	1534.3	1545.9	1563.2	1598.0	1621.1	1638.5	1638.5	1598.0	1563.2	1545.9	1545.9
45°	1615.3	1626.9	1655.9	1690.6	1725.3	1742.7	1736.9	1696.4	1655.9	1632.7	1626.9
47.5°	1679.0	1690.6	1725.3	1765.9	1812.2	1829.6	1823.8	1777.4	1725.3	1696.4	1690.6
50°	1713.8	1719.6	1760.1	1818.0	1864.3	1881.7	1870.1	1823.8	1765.9	1725.3	1719.6
52.5°	1708.0	1713.8	1760.1	1823.8	1875.9	1893.2	1875.9	1823.8	1765.9	1719.6	1713.8
55°	1673.2	1679.0	1725.3	1794.8	1846.9	1864.3	1846.9	1794.8	1731.1	1684.8	1679.0
57.5°	1609.5	1615.3	1661.7	1731.1	1789.0	1806.4	1783.2	1725.3	1661.7	1615.3	1615.3
60°	1516.9	1522.7	1569.0	1644.3	1696.4	1713.8	1684.8	1638.5	1574.8	1522.7	1516.9
62.5°	1395.3	1395.3	1447.4	1522.7	1569.0	1592.2	1563.2	1511.1	1453.2	1395.3	1401.1
65°	1250.6	1244.8	1296.9	1366.4	1418.5	1435.9	1406.9	1360.6	1302.7	1250.6	1250.6
67.5°	1100.0	1100.0	1140.6	1198.5	1244.8	1262.2	1233.2	1192.7	1146.4	1100.0	1100.0
70°	937.9	937.9	966.9	1024.8	1065.3	1076.9	1059.5	1019.0	978.5	937.9	937.9
72.5°	775.8	770.0	799.0	845.3	880.0	891.6	874.3	851.1	804.8	775.8	775.8
75°	613.7	607.9	625.3	665.8	694.8	706.3	689.0	671.6	636.9	613.7	613.7
77.5°	457.4	451.6	469.0	503.7	521.1	526.9	515.3	503.7	474.8	457.4	457.4
80°	312.6	306.9	318.4	341.6	359.0	359.0	353.2	347.4	324.2	312.6	318.4
82.5°	185.3	179.5	191.1	208.4	220.0	214.2	214.2	208.4	191.1	185.3	185.3
85°	81.1	75.3	81.1	92.6	104.2	98.4	98.4	98.4	86.8	81.1	81.1
87.5°	11.6	11.6	11.6	17.4	23.2	17.4	17.4	17.4	11.6	11.6	11.6
90°	5.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0
92.5°	5.0	5.0	5.0	7.0	8.0	7.0	8.0	6.0	6.0	5.0	5.0
95°	6.0	6.0	7.0	9.0	11.0	12.0	12.0	7.0	7.0	6.0	6.0
97.5°	8.0	9.0	9.0	11.0	18.0	33.0	20.0	10.0	10.0	9.0	8.0
100°	13.0	14.0	14.0	25.0	53.0	71.1	51.0	26.0	19.0	14.0	14.0
102.5°	42.0	44.0	54.0	81.1	120.1	109.1	92.1	87.1	60.0	48.0	46.0
105°	107.1	106.1	114.1	135.1	168.1	165.1	152.1	138.1	119.1	110.1	110.1
107.5°	141.1	141.1	148.1	166.1	191.1	223.2	226.2	179.1	157.1	147.1	146.1
110°	159.1	159.1	165.1	180.1	213.2	258.2	256.2	221.2	194.1	181.1	179.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	163.1	164.1	172.1	195.1	231.2	251.2	242.2	228.2	216.2	206.2	204.2
115°	169.1	169.1	178.1	200.2	220.2	228.2	218.2	207.2	199.2	195.1	197.1
117.5°	167.1	170.1	172.1	184.1	197.1	203.2	198.1	183.1	177.1	175.1	172.1
120°	155.1	155.1	157.1	163.1	170.1	173.1	171.1	161.1	156.1	155.1	153.1
122.5°	138.1	139.1	138.1	141.1	146.1	149.1	147.1	139.1	137.1	137.1	135.1
125°	121.1	121.1	120.1	122.1	125.1	124.1	125.1	121.1	120.1	120.1	119.1
127.5°	109.1	108.1	106.1	107.1	108.1	108.1	109.1	105.1	106.1	107.1	106.1
130°	97.1	97.1	95.1	95.1	95.1	93.1	95.1	93.1	94.1	95.1	96.1
132.5°	86.1	86.1	83.1	82.1	82.1	82.1	83.1	82.1	84.1	86.1	86.1
135°	77.1	77.1	74.1	75.1	75.1	74.1	75.1	74.1	76.1	77.1	77.1
137.5°	70.1	70.1	68.1	68.1	68.1	67.1	68.1	68.1	69.1	71.1	72.1
140°	64.0	64.0	63.0	63.0	62.0	63.0	63.0	63.0	64.0	65.0	65.0
142.5°	61.0	60.0	59.0	58.0	59.0	59.0	59.0	58.0	59.0	61.0	61.0
145°	56.0	56.0	55.0	55.0	55.0	56.0	55.0	55.0	56.0	56.0	57.0
147.5°	53.0	53.0	52.0	53.0	53.0	53.0	53.0	52.0	53.0	53.0	54.0
150°	52.0	51.0	50.0	51.0	51.0	50.0	50.0	50.0	50.0	51.0	51.0
152.5°	49.0	49.0	48.0	49.0	48.0	48.0	48.0	48.0	48.0	49.0	50.0
155°	47.0	47.0	46.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
157.5°	45.0	46.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	46.0	46.0
160°	44.0	44.0	44.0	44.0	43.0	43.0	43.0	44.0	44.0	44.0	45.0
162.5°	43.0	43.0	43.0	43.0	42.0	42.0	42.0	42.0	43.0	43.0	44.0
165°	43.0	42.0	42.0	42.0	41.0	41.0	41.0	41.0	42.0	43.0	42.0
167.5°	41.0	41.0	41.0	41.0	41.0	40.0	40.0	41.0	41.0	41.0	42.0
170°	41.0	41.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	41.0
172.5°	41.0	41.0	41.0	41.0	40.0	40.0	40.0	40.0	40.0	41.0	41.0
175°	41.0	41.0	41.0	41.0	40.0	40.0	40.0	41.0	41.0	41.0	40.0
177.5°	41.0	41.0	41.0	41.0	40.0	41.0	41.0	41.0	41.0	41.0	41.0
180°	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0

(END OF REPORT)