

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: P833932

Luminaire Tested: **TTN-D3-740-U-WQ-CG-UPL1**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P833932  
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-CG-UPL1  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
4000K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH CLEAR GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

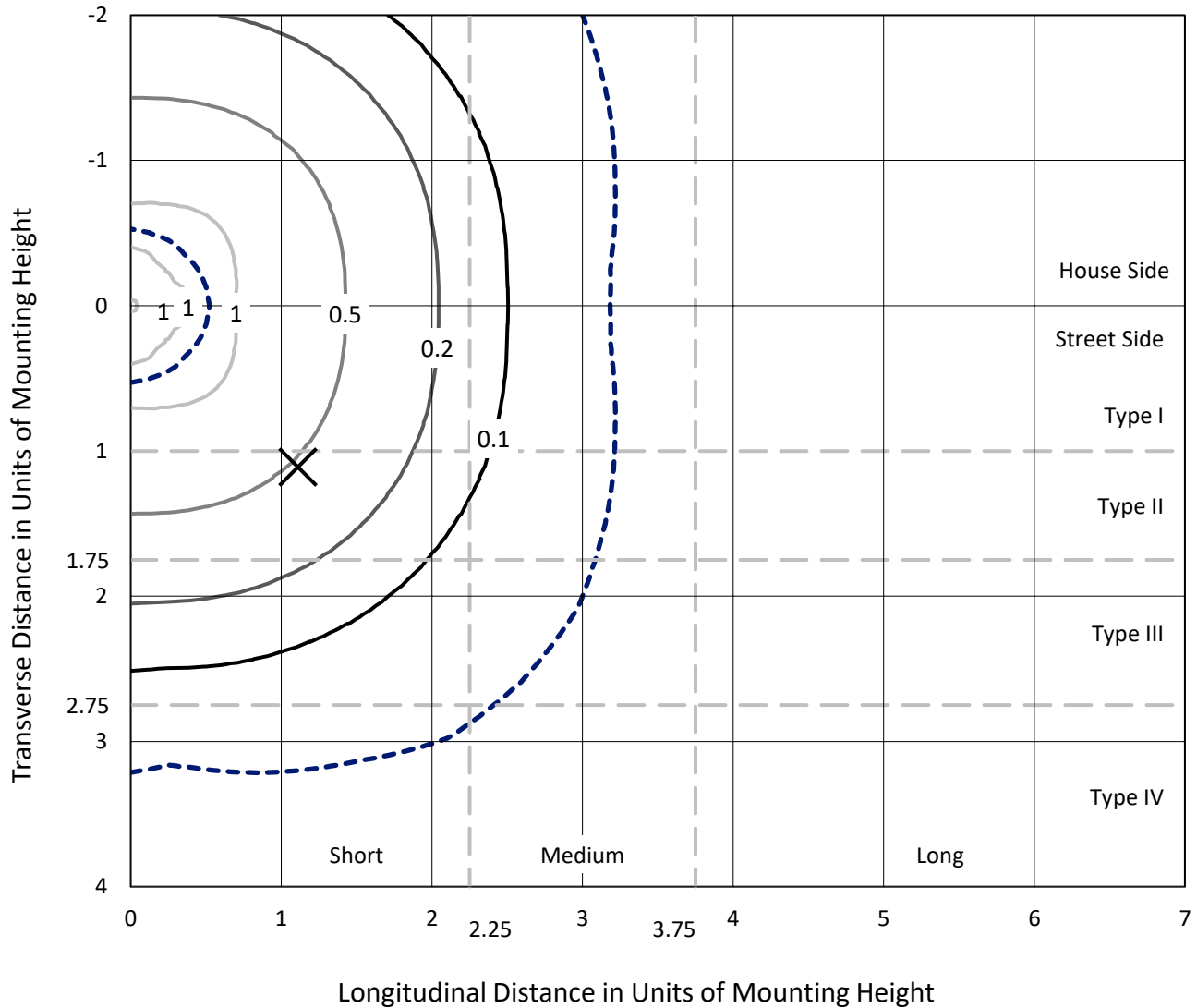
Lumens per Lamp: N/A  
Luminaire Lumens: 7005.9 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B3 - U3 - G1  
  
Input Watts (W): 61.8  
Input Voltage (V): NR  
Input Current (Ain): 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

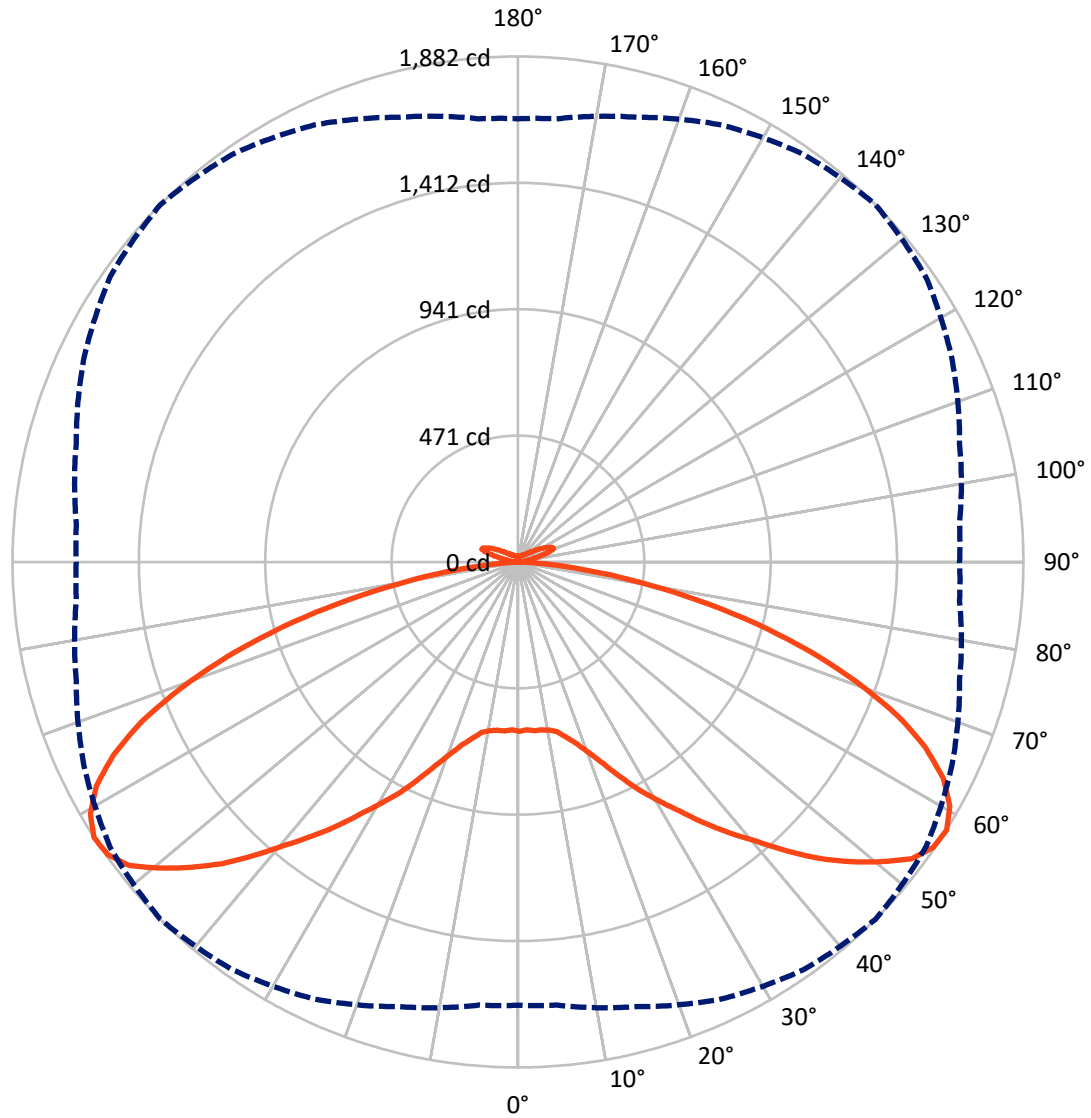
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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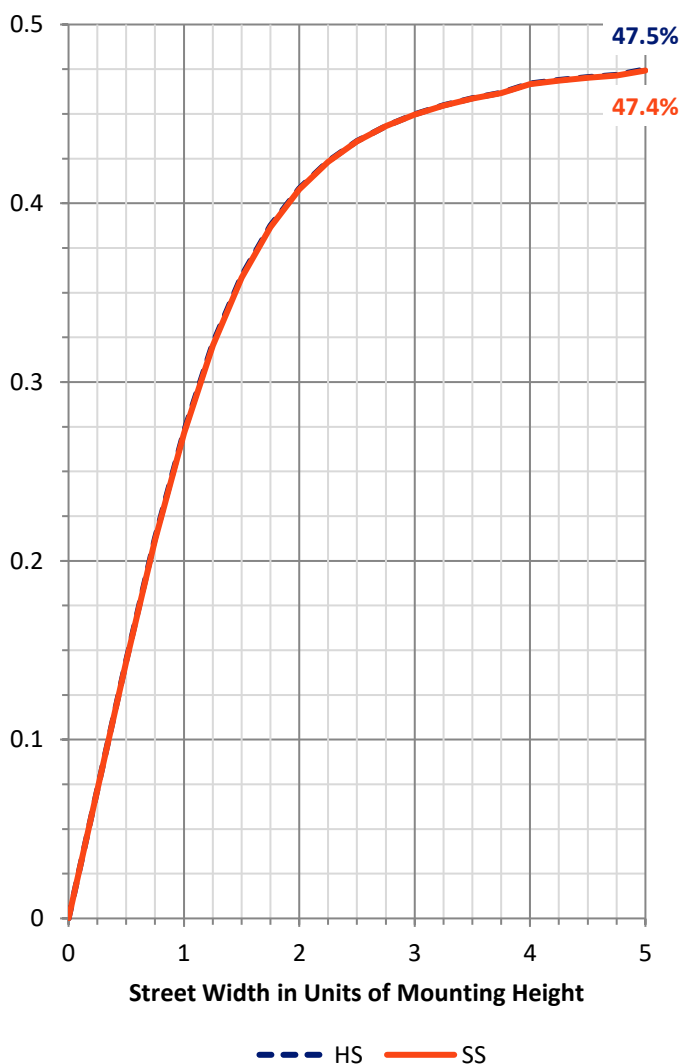
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3341.2	161.7	3502.9
	% Fixture	47.7	2.3	50.0
<b>Street Side</b>	Lumens	3341.2	161.7	3502.9
	% Fixture	47.7	2.3	50.0
<b>Total</b>	Lumens	6682.5	323.4	7005.9
	% Fixture	95.4	4.6	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.2	0.9
10°-20°	194.6	2.8
20°-30°	409.5	5.8
30°-40°	738.2	10.5
40°-50°	1173.5	16.8
50°-60°	1565.7	22.3
60°-70°	1512.7	21.6
70°-80°	876.6	12.5
80°-90°	151.5	2.2
90°-100°	7.2	0.1
100°-110°	73.4	1.0
110°-120°	107.3	1.5
120°-130°	62.3	0.9
130°-140°	33.0	0.5
140°-150°	19.6	0.3
150°-160°	12.1	0.2
160°-170°	6.6	0.1
170°-180°	2.1	0.0
0°-90°	6682.5	95.4
0°-180°	7005.9	100.0

**Coefficient of Utilization**

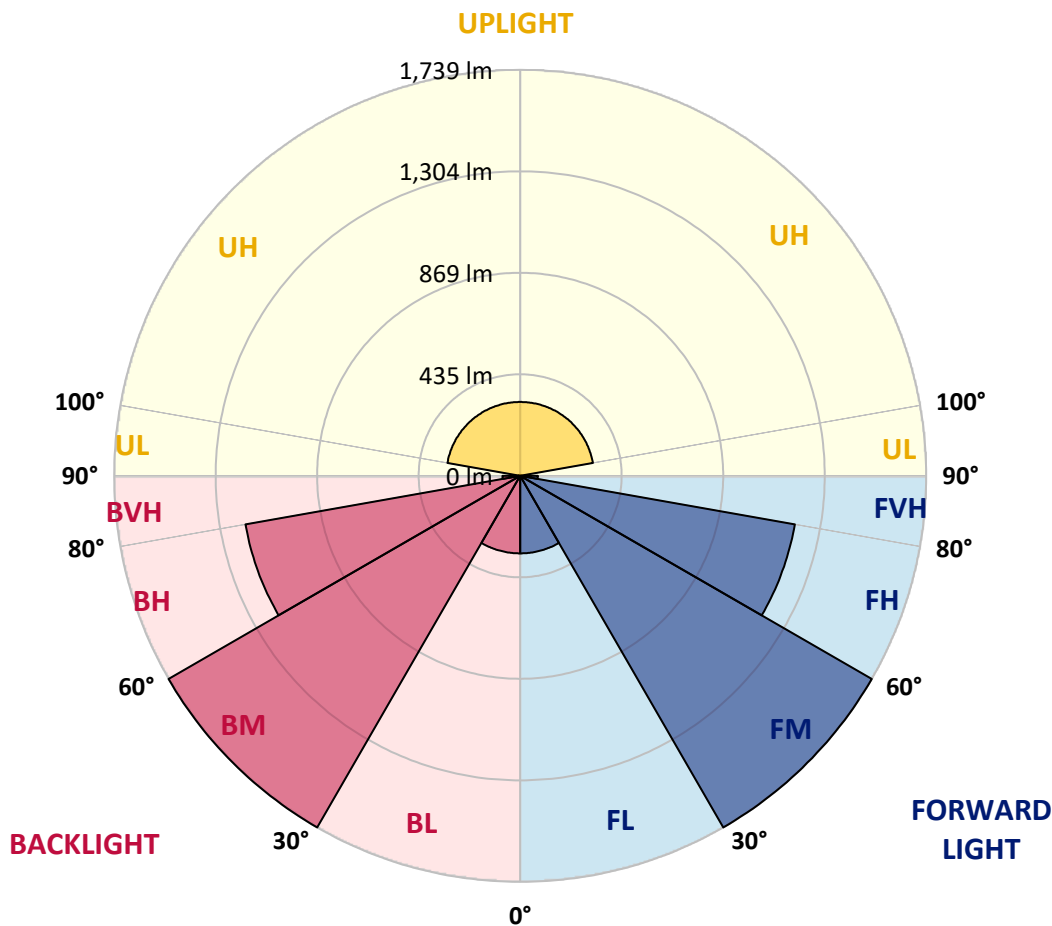


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.2	4.7			
FM (30°-60°)	1738.7	24.8			
FH (60°-80°)	1194.6	17.1			G1/1800
FVH (80°-90°)	75.8	1.1			G1/100
BL (0°-30°)	332.2	4.7	B1/500		
BM (30°-60°)	1738.7	24.8	B2/2500		
BH (60°-80°)	1194.6	17.1	B3/2500		G1/1800
BVH (80°-90°)	75.8	1.1			G1/100
UL (90°-100°)	7.2	0.1		U1/10	
UH (100°-180°)	316.2	4.5		U3/500	

**BUG Rating: B3-U3-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2
2.5°	625.4	625.4	625.4	625.4	625.4	625.4	625.4	625.4	625.4	625.4	625.4
5°	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2
7.5°	625.4	625.4	631.2	631.2	631.2	631.2	631.2	631.2	631.2	625.4	625.4
10°	631.2	631.2	631.2	637.0	637.0	637.0	637.0	637.0	631.2	631.2	631.2
12.5°	642.8	642.8	648.6	648.6	648.6	648.6	648.6	648.6	648.6	642.8	642.8
15°	671.8	671.8	671.8	677.6	677.6	677.6	677.6	677.6	671.8	671.8	671.8
17.5°	700.7	700.7	706.5	706.5	712.3	712.3	712.3	706.5	706.5	706.5	706.5
20°	741.3	741.3	747.1	747.1	752.8	752.8	752.8	747.1	747.1	747.1	747.1
22.5°	793.4	799.2	799.2	799.2	805.0	810.8	810.8	805.0	799.2	799.2	799.2
25°	857.1	862.9	868.7	868.7	874.5	886.0	886.0	868.7	868.7	868.7	868.7
27.5°	932.4	938.2	944.0	944.0	949.7	961.3	955.5	944.0	944.0	938.2	938.2
30°	1001.9	1007.7	1013.4	1019.2	1025.0	1030.8	1030.8	1019.2	1013.4	1007.7	1001.9
32.5°	1071.4	1071.4	1082.9	1094.5	1106.1	1111.9	1111.9	1094.5	1082.9	1071.4	1065.6
35°	1140.8	1146.6	1152.4	1169.8	1187.2	1193.0	1187.2	1169.8	1152.4	1140.8	1140.8
37.5°	1216.1	1221.9	1227.7	1250.9	1268.3	1279.8	1268.3	1250.9	1227.7	1216.1	1210.3
40°	1297.2	1303.0	1308.8	1337.7	1355.1	1366.7	1349.3	1332.0	1308.8	1297.2	1291.4
42.5°	1372.5	1384.1	1395.7	1430.4	1459.4	1470.9	1453.6	1424.6	1401.4	1372.5	1366.7
45°	1465.1	1476.7	1494.1	1528.9	1557.8	1575.2	1552.0	1523.1	1488.3	1465.1	1459.4
47.5°	1540.4	1552.0	1569.4	1615.7	1656.3	1667.8	1644.7	1609.9	1563.6	1534.6	1528.9
50°	1598.3	1609.9	1644.7	1696.8	1743.1	1754.7	1731.5	1685.2	1633.1	1592.6	1586.8
52.5°	1644.7	1656.3	1696.8	1766.3	1818.4	1835.8	1806.8	1754.7	1685.2	1638.9	1633.1
55°	1667.8	1673.6	1725.7	1801.0	1853.2	1876.3	1847.4	1789.5	1714.2	1662.0	1656.3
57.5°	1650.5	1656.3	1714.2	1795.2	1853.2	1882.1	1853.2	1783.7	1702.6	1650.5	1644.7
60°	1615.7	1615.7	1667.8	1760.5	1830.0	1847.4	1818.4	1748.9	1662.0	1609.9	1604.1
62.5°	1552.0	1546.2	1609.9	1691.0	1760.5	1777.9	1754.7	1685.2	1598.3	1546.2	1540.4
65°	1430.4	1418.8	1511.5	1586.8	1650.5	1667.8	1650.5	1586.8	1505.7	1424.6	1413.0
67.5°	1285.6	1268.3	1355.1	1442.0	1499.9	1523.1	1499.9	1447.8	1355.1	1274.0	1268.3
70°	1135.1	1117.7	1187.2	1262.5	1326.2	1337.7	1314.6	1262.5	1175.6	1123.5	1123.5
72.5°	955.5	938.2	1001.9	1059.8	1123.5	1135.1	1111.9	1065.6	1001.9	949.7	944.0
75°	758.6	741.3	799.2	845.5	909.2	915.0	903.4	851.3	799.2	747.1	747.1
77.5°	561.7	544.4	590.7	631.2	683.4	683.4	677.6	637.0	590.7	555.9	555.9
80°	370.6	359.0	399.6	417.0	463.3	463.3	457.5	428.5	393.8	370.6	364.8
82.5°	208.5	196.9	231.6	237.4	272.2	272.2	266.4	243.2	220.1	202.7	202.7
85°	81.1	69.5	92.7	98.4	115.8	115.8	110.0	104.2	86.9	75.3	75.3
87.5°	5.8	5.8	11.6	11.6	17.4	17.4	17.4	11.6	11.6	5.8	5.8
90°	2.8	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8
92.5°	2.8	2.8	2.8	3.9	4.4	3.9	4.4	3.3	3.3	2.8	2.8
95°	3.3	3.3	3.9	5.0	6.1	6.6	6.6	3.9	3.9	3.3	3.3
97.5°	4.4	5.0	5.0	6.1	10.0	18.3	11.1	5.5	5.5	5.0	4.4
100°	7.2	7.7	7.7	13.8	29.3	39.3	28.2	14.4	10.5	7.7	7.7
102.5°	23.2	24.3	29.9	44.8	66.4	60.3	50.9	48.1	33.2	26.6	25.5
105°	59.2	58.7	63.1	74.7	93.0	91.3	84.1	76.4	65.8	60.9	60.9
107.5°	78.0	78.0	81.9	91.9	105.7	123.4	125.1	99.0	86.9	81.3	80.8
110°	88.0	88.0	91.3	99.6	117.9	142.8	141.6	122.3	107.3	100.2	99.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	90.2	90.7	95.2	107.9	127.8	138.9	133.9	126.2	119.5	114.0	112.9
115°	93.5	93.5	98.5	110.7	121.7	126.2	120.6	114.5	110.1	107.9	109.0
117.5°	92.4	94.1	95.2	101.8	109.0	112.3	109.6	101.3	97.9	96.8	95.2
120°	85.8	85.8	86.9	90.2	94.1	95.7	94.6	89.1	86.3	85.8	84.7
122.5°	76.4	76.9	76.4	78.0	80.8	82.4	81.3	76.9	75.8	75.8	74.7
125°	67.0	67.0	66.4	67.5	69.2	68.6	69.2	67.0	66.4	66.4	65.8
127.5°	60.3	59.8	58.7	59.2	59.8	59.8	60.3	58.1	58.7	59.2	58.7
130°	53.7	53.7	52.6	52.6	52.6	51.5	52.6	51.5	52.0	52.6	53.1
132.5°	47.6	47.6	45.9	45.4	45.4	45.4	45.9	45.4	46.5	47.6	47.6
135°	42.6	42.6	40.9	41.5	41.5	40.9	41.5	40.9	42.1	42.6	42.6
137.5°	38.7	38.7	37.6	37.6	37.6	37.1	37.6	37.6	38.2	39.3	39.8
140°	35.4	35.4	34.9	34.9	34.3	34.9	34.9	34.9	35.4	36.0	36.0
142.5°	33.8	33.2	32.6	32.1	32.6	32.6	32.6	32.1	32.6	33.8	33.8
145°	31.0	31.0	30.4	30.4	30.4	31.0	30.4	30.4	31.0	31.0	31.5
147.5°	29.3	29.3	28.8	29.3	29.3	29.3	29.3	28.8	29.3	29.3	29.9
150°	28.8	28.2	27.7	28.2	28.2	27.7	27.7	27.7	27.7	28.2	28.2
152.5°	27.1	27.1	26.6	27.1	26.6	26.6	26.6	26.6	26.6	27.1	27.7
155°	26.0	26.0	25.5	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
157.5°	24.9	25.5	24.9	24.9	24.9	24.9	24.9	24.9	24.9	25.5	25.5
160°	24.3	24.3	24.3	24.3	23.8	23.8	23.8	24.3	24.3	24.3	24.9
162.5°	23.8	23.8	23.8	23.8	23.2	23.2	23.2	23.2	23.8	23.8	24.3
165°	23.8	23.2	23.2	23.2	22.7	22.7	22.7	22.7	23.2	23.8	23.2
167.5°	22.7	22.7	22.7	22.7	22.7	22.1	22.1	22.7	22.7	22.7	23.2
170°	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.7
172.5°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.7	22.7
175°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.7	22.7	22.7	22.1
177.5°	22.7	22.7	22.7	22.7	22.1	22.7	22.7	22.7	22.7	22.7	22.7
180°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7

(END OF REPORT)