

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: P833221

Luminaire Tested: **TTN-D1-750-U-CQ-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833221
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-D1-750-U-CQ-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
5000K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3703.9 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U3 - G1

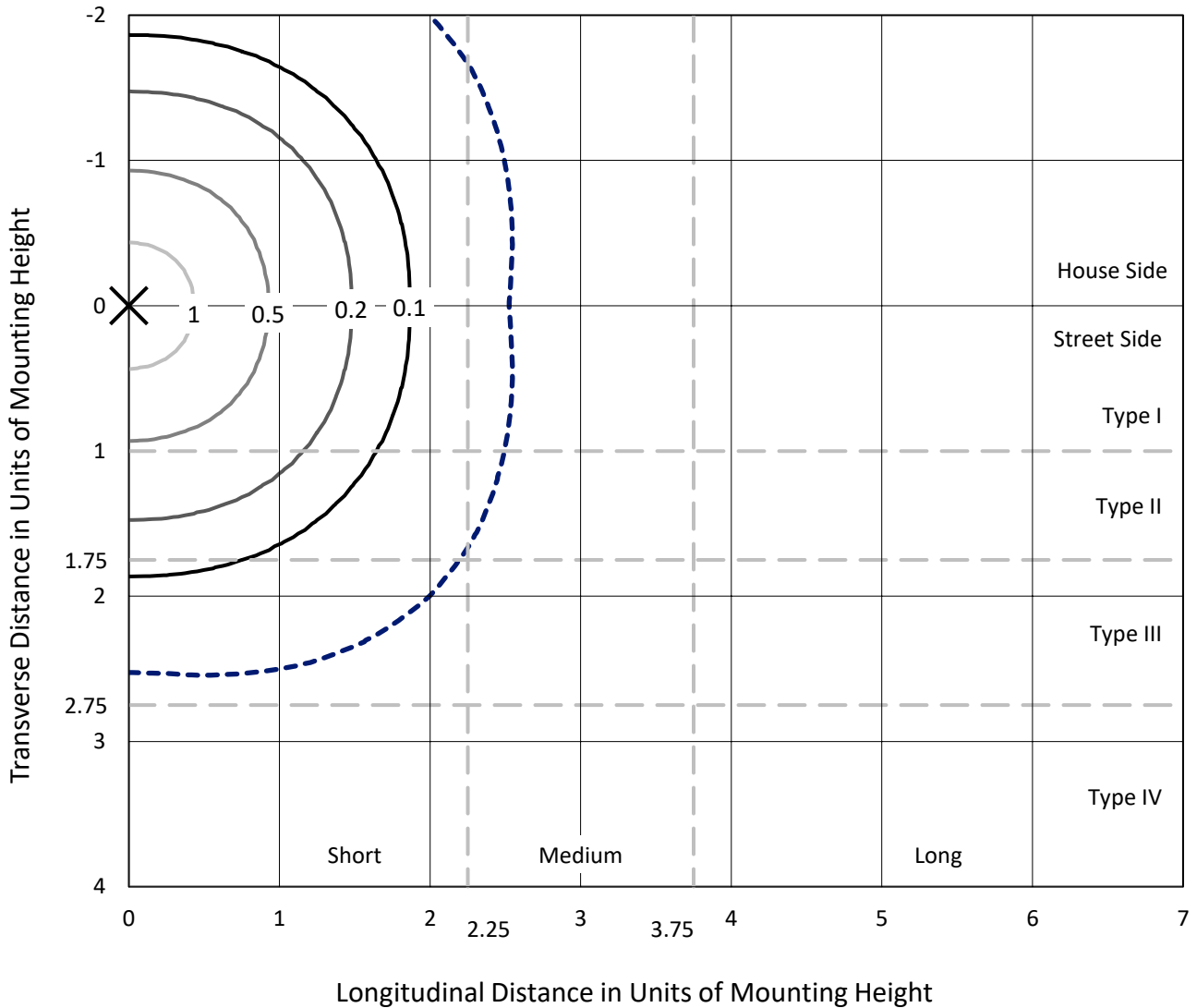
Input Watts (W): 29
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

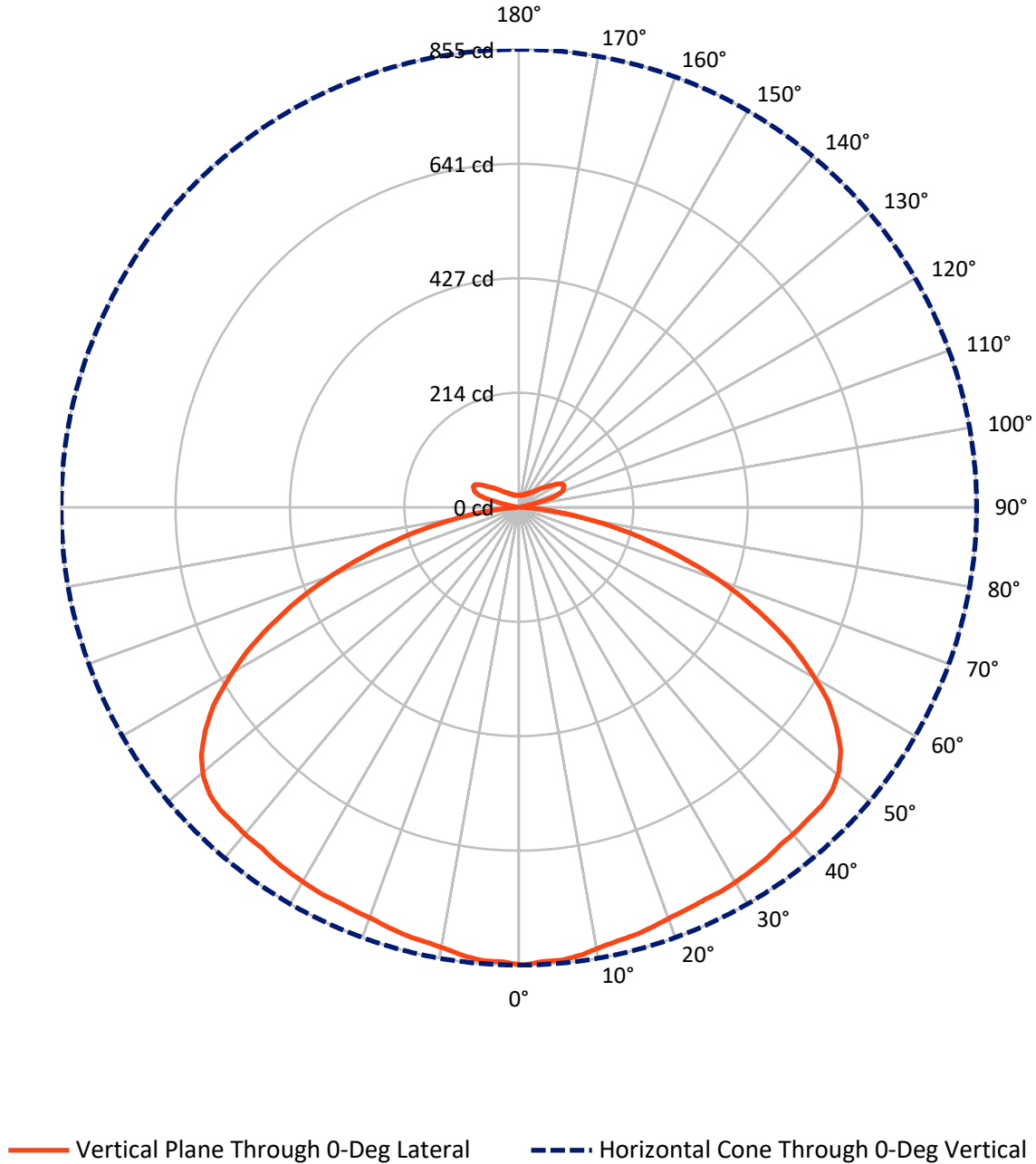
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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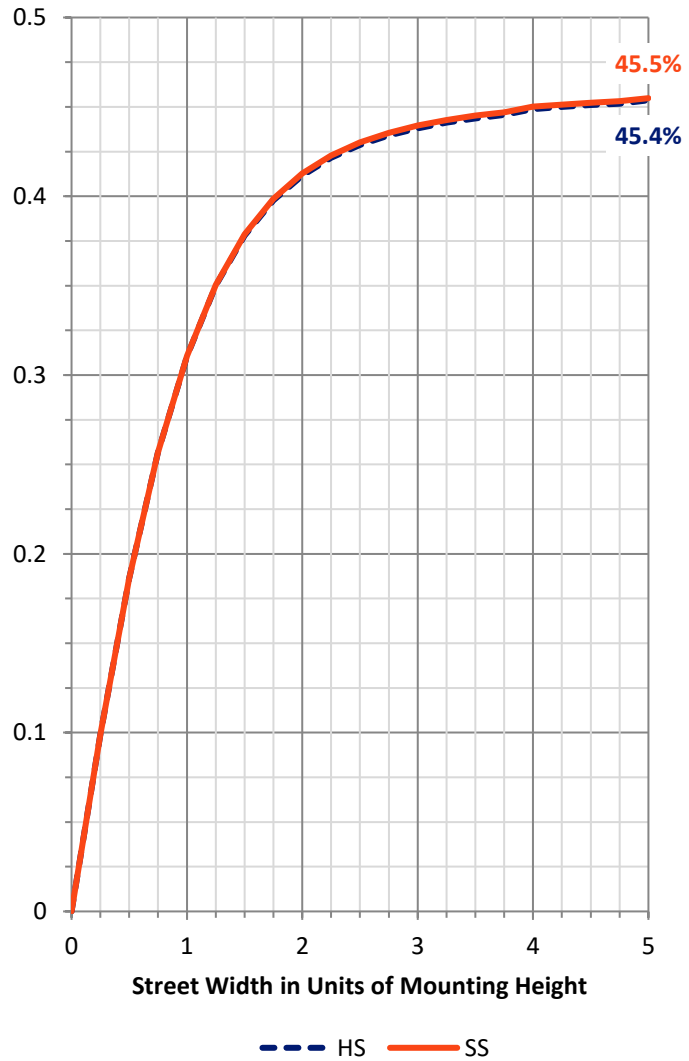
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1690.2	161.7	1851.9
	% Fixture	45.6	4.4	50.0
Street Side	Lumens	1690.2	161.7	1851.9
	% Fixture	45.6	4.4	50.0
Total	Lumens	3380.4	323.4	3703.9
	% Fixture	91.3	8.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	2.2
10°-20°	234.0	6.3
20°-30°	376.8	10.2
30°-40°	506.8	13.7
40°-50°	625.3	16.9
50°-60°	670.9	18.1
60°-70°	544.0	14.7
70°-80°	288.3	7.8
80°-90°	53.8	1.5
90°-100°	7.2	0.2
100°-110°	73.4	2.0
110°-120°	107.3	2.9
120°-130°	62.3	1.7
130°-140°	33.0	0.9
140°-150°	19.6	0.5
150°-160°	12.1	0.3
160°-170°	6.6	0.2
170°-180°	2.1	0.1
0°-90°	3380.4	91.3
0°-180°	3703.9	100.0

Coefficient of Utilization

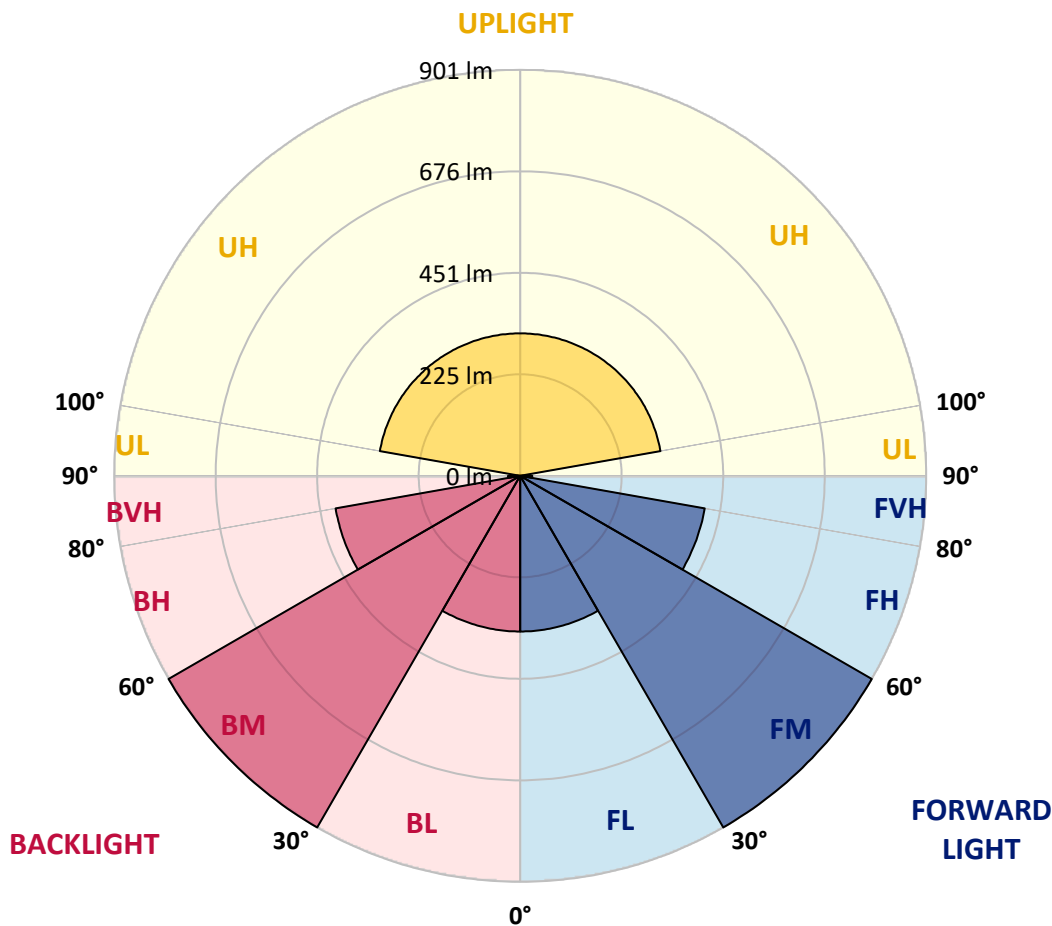


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	345.7	9.3			
FM (30°-60°)	901.5	24.3			
FH (60°-80°)	416.2	11.2			G0/660
FVH (80°-90°)	26.9	0.7			G1/100
BL (0°-30°)	345.7	9.3	B1/500		
BM (30°-60°)	901.5	24.3	B1/1000		
BH (60°-80°)	416.2	11.2	B1/500		G0/660
BVH (80°-90°)	26.9	0.7			G1/100
UL (90°-100°)	7.2	0.2		U1/10	
UH (100°-180°)	316.2	8.5		U3/500	

BUG Rating: B1-U3-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	854.7	854.7	854.7	854.7	854.7	854.7	854.7	854.7	854.7	854.7	854.7
2.5°	849.1	849.1	849.1	849.1	849.1	849.1	849.1	849.1	849.1	849.1	851.9
5°	849.1	849.1	849.1	849.1	846.4	849.1	849.1	849.1	849.1	849.1	849.1
7.5°	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6
10°	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3
12.5°	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8
15°	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	824.3	824.3
17.5°	821.5	821.5	821.5	821.5	824.3	824.3	824.3	821.5	821.5	821.5	821.5
20°	816.0	816.0	816.0	818.7	818.7	818.7	818.7	818.7	816.0	816.0	816.0
22.5°	813.2	813.2	813.2	813.2	816.0	816.0	816.0	816.0	813.2	813.2	813.2
25°	810.4	810.4	813.2	813.2	816.0	816.0	816.0	813.2	813.2	810.4	810.4
27.5°	810.4	810.4	813.2	813.2	816.0	816.0	816.0	816.0	813.2	810.4	810.4
30°	807.7	810.4	810.4	813.2	816.0	816.0	816.0	813.2	810.4	807.7	807.7
32.5°	804.9	804.9	807.7	810.4	813.2	813.2	813.2	810.4	807.7	804.9	802.1
35°	802.1	802.1	802.1	807.7	810.4	810.4	810.4	807.7	802.1	799.4	799.4
37.5°	796.6	799.4	802.1	804.9	810.4	810.4	810.4	804.9	799.4	796.6	793.8
40°	796.6	796.6	802.1	804.9	813.2	813.2	810.4	804.9	799.4	793.8	791.1
42.5°	793.8	796.6	802.1	810.4	818.7	818.7	816.0	807.7	799.4	793.8	791.1
45°	793.8	793.8	802.1	813.2	824.3	827.0	821.5	813.2	802.1	791.1	791.1
47.5°	788.3	788.3	799.4	813.2	827.0	829.8	827.0	813.2	799.4	791.1	788.3
50°	774.5	774.5	788.3	804.9	821.5	827.0	821.5	810.4	791.1	780.0	777.2
52.5°	752.3	752.3	766.2	788.3	804.9	813.2	807.7	793.8	774.5	757.9	755.1
55°	719.1	721.9	735.7	760.6	780.0	788.3	782.8	766.2	744.0	727.4	721.9
57.5°	680.4	680.4	699.8	724.7	744.0	752.3	746.8	730.2	705.3	688.7	683.2
60°	627.9	630.6	647.2	680.4	699.8	708.1	702.6	683.2	655.5	636.2	630.6
62.5°	575.3	578.1	594.7	622.3	644.5	650.0	644.5	625.1	600.2	580.9	575.3
65°	514.5	517.2	536.6	561.5	578.1	586.4	578.1	561.5	539.4	520.0	517.2
67.5°	450.9	453.6	473.0	495.1	511.7	517.2	508.9	495.1	473.0	456.4	450.9
70°	384.5	387.2	403.8	423.2	437.0	442.6	437.0	420.4	403.8	387.2	384.5
72.5°	315.3	318.1	334.7	351.3	362.3	367.9	359.6	348.5	331.9	318.1	315.3
75°	248.9	248.9	262.8	276.6	287.7	290.4	284.9	276.6	262.8	251.7	246.2
77.5°	185.3	185.3	199.1	207.4	213.0	218.5	213.0	204.7	196.4	185.3	185.3
80°	124.5	124.5	135.5	141.1	146.6	149.4	146.6	141.1	135.5	127.2	124.5
82.5°	74.7	74.7	80.2	85.7	85.7	88.5	88.5	85.7	80.2	74.7	74.7
85°	33.2	30.4	36.0	38.7	38.7	41.5	41.5	38.7	36.0	33.2	33.2
87.5°	2.8	5.5	5.5	8.3	8.3	8.3	8.3	8.3	5.5	5.5	5.5
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)