

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: P833246

Luminaire Tested: **TTN-D1-750-U-WQ-SG-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833246
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-WQ-SG-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
5000K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH SOLITE GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3714.7 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

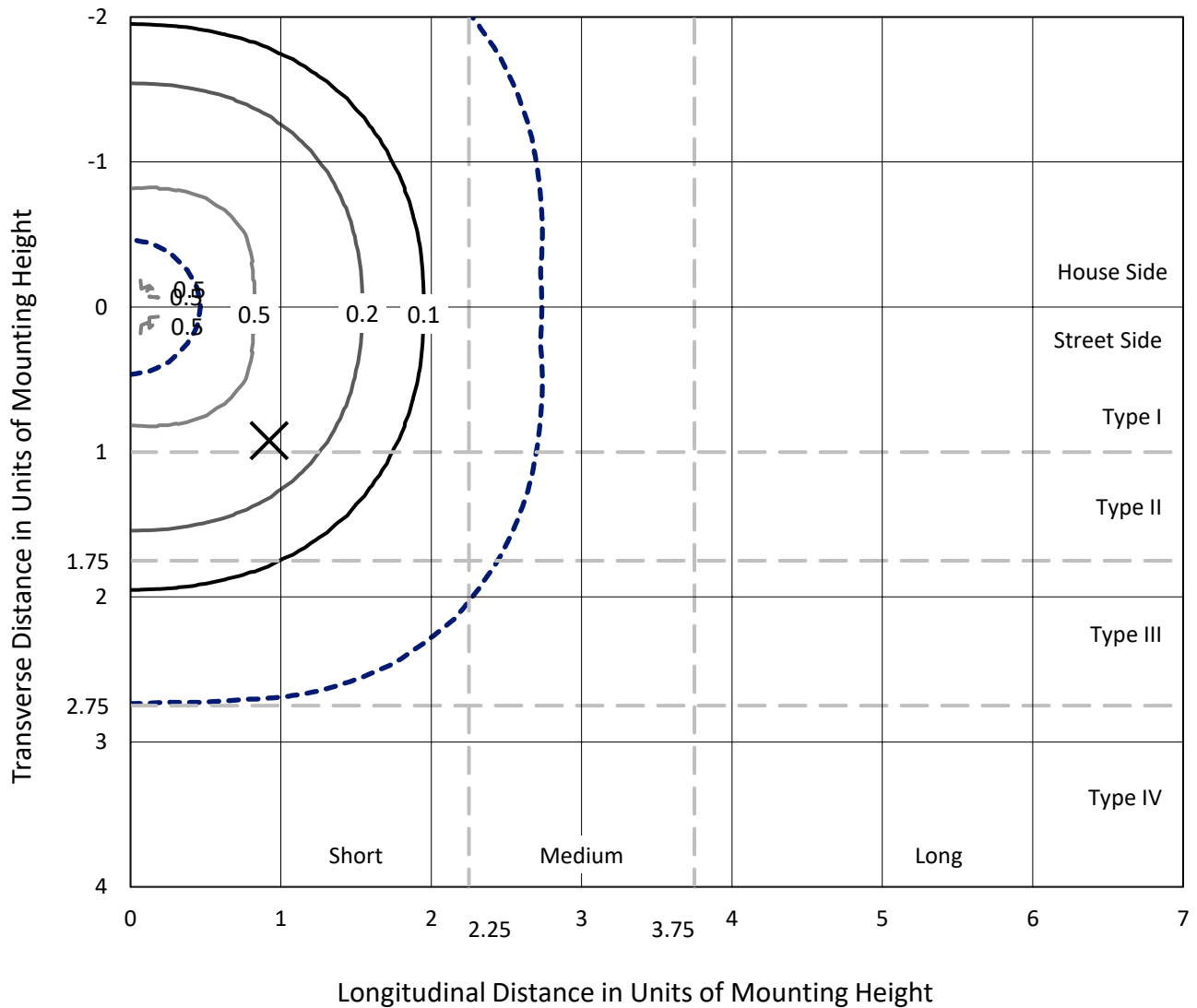
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

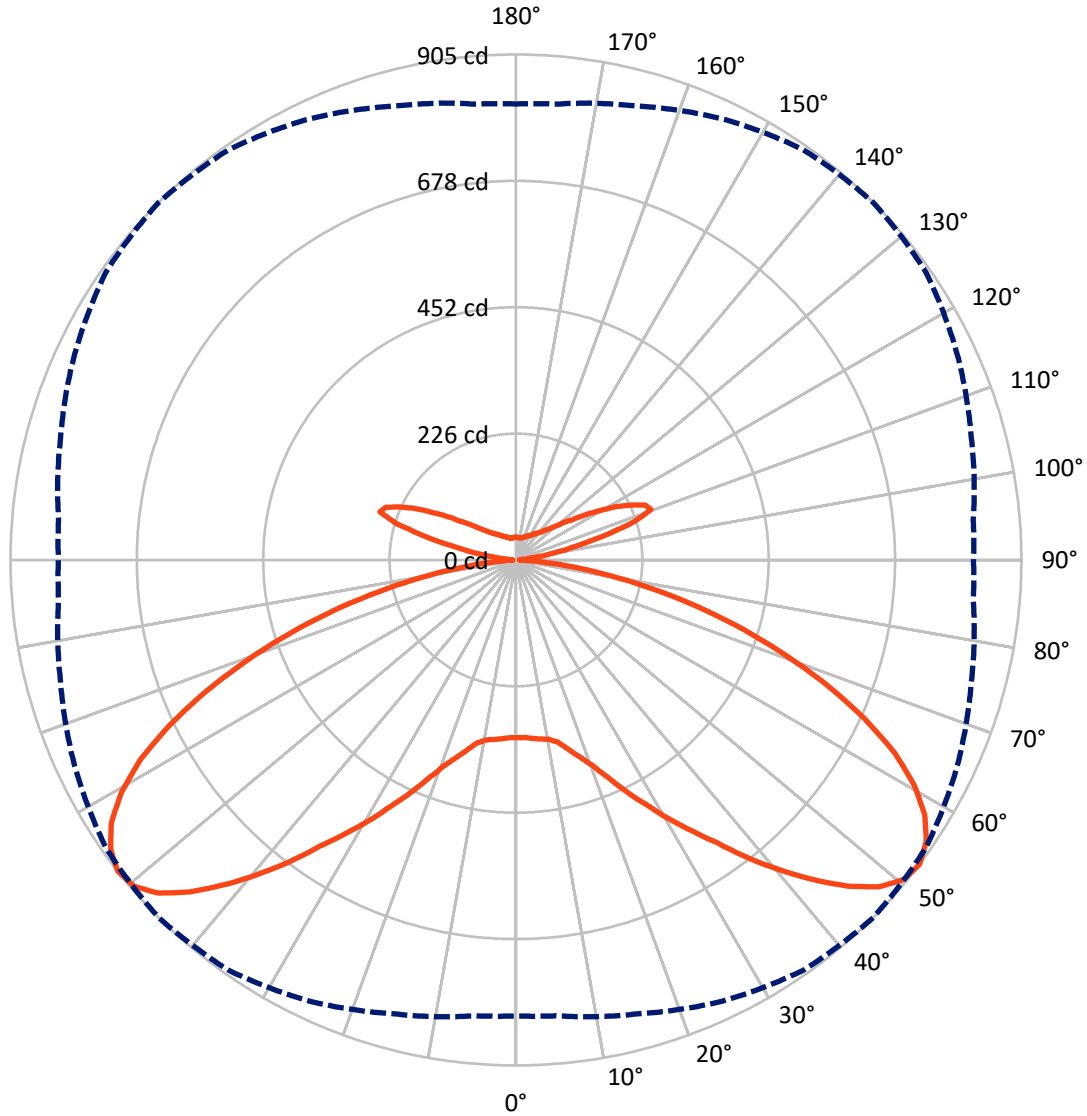
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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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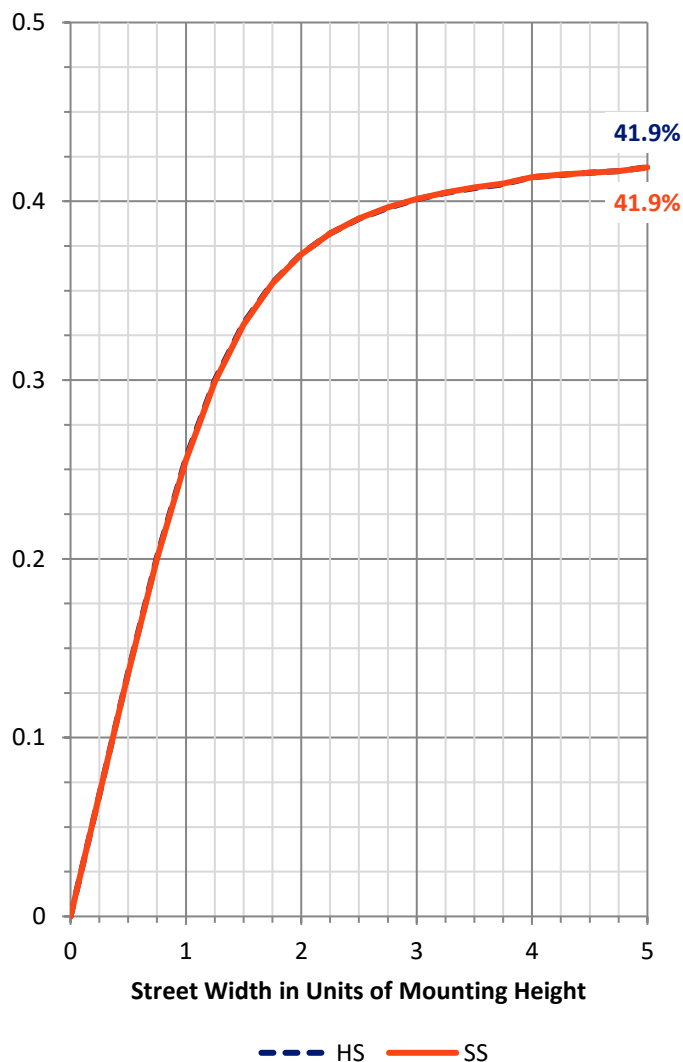
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1564.9	292.5	1857.3
	% Fixture	42.1	7.9	50.0
Street Side	Lumens	1564.9	292.5	1857.3
	% Fixture	42.1	7.9	50.0
Total	Lumens	3129.8	584.9	3714.7
	% Fixture	84.3	15.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.7	0.8
10°-20°	101.0	2.7
20°-30°	213.1	5.7
30°-40°	389.3	10.5
40°-50°	619.7	16.7
50°-60°	749.3	20.2
60°-70°	630.1	17.0
70°-80°	334.0	9.0
80°-90°	62.6	1.7
90°-100°	13.1	0.4
100°-110°	132.7	3.6
110°-120°	194.0	5.2
120°-130°	112.6	3.0
130°-140°	59.7	1.6
140°-150°	35.4	1.0
150°-160°	21.8	0.6
160°-170°	11.9	0.3
170°-180°	3.9	0.1
0°-90°	3129.8	84.3
0°-180°	3714.7	100.0

Coefficient of Utilization

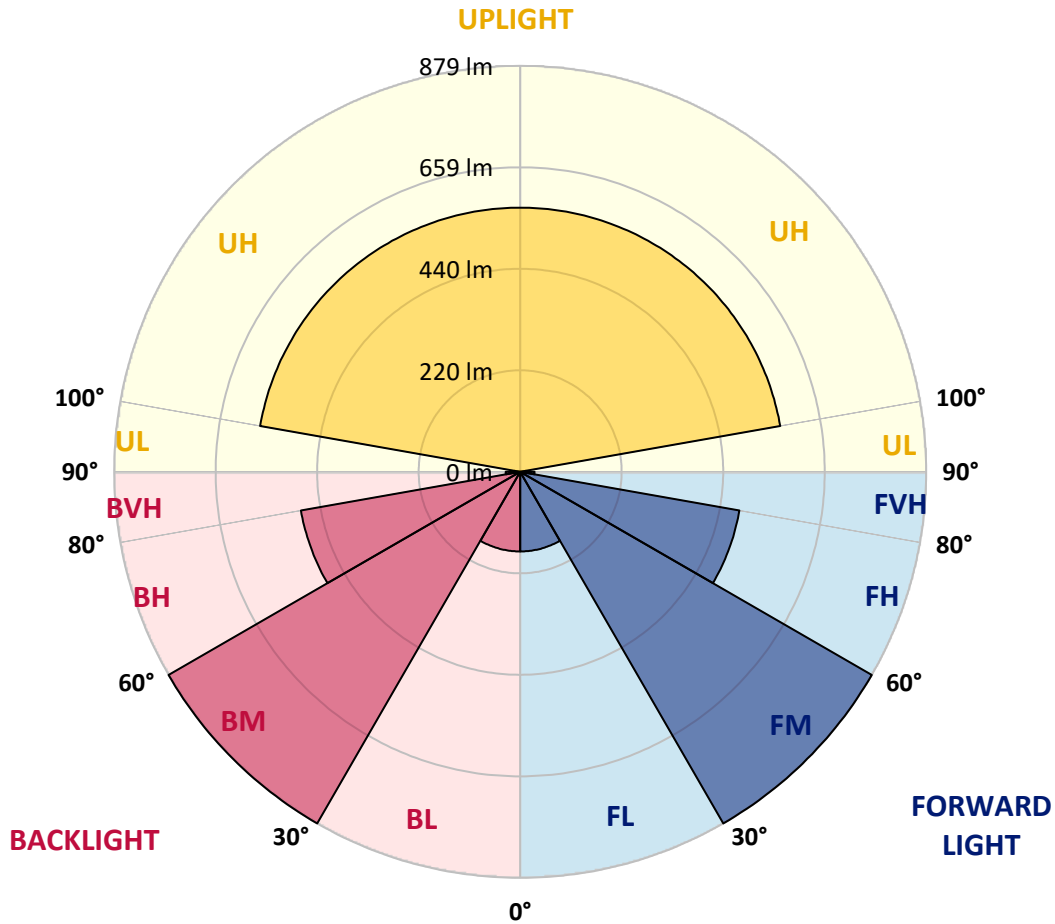


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	172.4	4.6			
FM (30°-60°)	879.2	23.7			
FH (60°-80°)	482.0	13.0			G0/660
FVH (80°-90°)	31.3	0.8			G1/100
BL (0°-30°)	172.4	4.6	B1/500		
BM (30°-60°)	879.2	23.7	B1/1000		
BH (60°-80°)	482.0	13.0	B1/500		G0/660
BVH (80°-90°)	31.3	0.8			G1/100
UL (90°-100°)	13.1	0.4		U2/50	
UH (100°-180°)	571.8	15.4		U4/1000	

BUG Rating: B1-U4-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1
2.5°	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1
5°	320.9	320.9	318.1	320.9	320.9	320.9	320.9	320.9	320.9	320.9	320.9
7.5°	320.9	320.9	320.9	323.6	323.6	323.6	323.6	320.9	320.9	320.9	320.9
10°	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4
12.5°	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7
15°	348.5	348.5	348.5	348.5	351.3	351.3	351.3	348.5	348.5	348.5	348.5
17.5°	365.1	365.1	367.9	367.9	370.7	370.7	370.7	367.9	365.1	367.9	365.1
20°	390.0	390.0	390.0	392.8	395.6	395.6	395.6	390.0	390.0	390.0	390.0
22.5°	417.7	417.7	417.7	420.5	423.2	423.2	423.2	417.7	417.7	417.7	417.7
25°	450.9	450.9	450.9	453.7	456.4	459.2	459.2	453.7	450.9	450.9	448.1
27.5°	484.1	484.1	489.6	492.4	495.2	495.2	495.2	489.6	486.9	486.9	486.9
30°	522.8	522.8	528.4	531.1	536.6	536.6	536.6	528.4	525.6	522.8	522.8
32.5°	558.8	561.5	567.1	572.6	578.1	578.1	580.9	569.8	564.3	561.5	561.5
35°	597.5	600.3	605.8	614.1	619.6	622.4	625.2	614.1	605.8	603.0	603.0
37.5°	641.8	644.5	652.8	661.1	672.2	677.7	680.5	663.9	650.1	644.5	644.5
40°	691.6	694.3	702.6	713.7	724.8	730.3	733.1	716.5	702.6	697.1	694.3
42.5°	733.1	738.6	746.9	763.5	774.5	782.8	782.8	763.5	746.9	738.6	738.6
45°	771.8	777.3	791.1	807.7	824.3	832.6	829.9	810.5	791.1	780.1	777.3
47.5°	802.2	807.7	824.3	843.7	865.8	874.1	871.4	849.2	824.3	810.5	807.7
50°	818.8	821.6	840.9	868.6	890.7	899.0	893.5	871.4	843.7	824.3	821.6
52.5°	816.0	818.8	840.9	871.4	896.3	904.6	896.3	871.4	843.7	821.6	818.8
55°	799.4	802.2	824.3	857.5	882.4	890.7	882.4	857.5	827.1	805.0	802.2
57.5°	769.0	771.8	793.9	827.1	854.8	863.1	852.0	824.3	793.9	771.8	771.8
60°	724.8	727.5	749.7	785.6	810.5	818.8	805.0	782.8	752.4	727.5	724.8
62.5°	666.7	666.7	691.6	727.5	749.7	760.7	746.9	722.0	694.3	666.7	669.4
65°	597.5	594.7	619.6	652.8	677.7	686.0	672.2	650.1	622.4	597.5	597.5
67.5°	525.6	525.6	544.9	572.6	594.7	603.0	589.2	569.8	547.7	525.6	525.6
70°	448.1	448.1	462.0	489.6	509.0	514.5	506.2	486.9	467.5	448.1	448.1
72.5°	370.7	367.9	381.7	403.9	420.5	426.0	417.7	406.6	384.5	370.7	370.7
75°	293.2	290.5	298.8	318.1	331.9	337.5	329.2	320.9	304.3	293.2	293.2
77.5°	218.5	215.8	224.1	240.7	249.0	251.7	246.2	240.7	226.8	218.5	218.5
80°	149.4	146.6	152.1	163.2	171.5	171.5	168.7	166.0	154.9	149.4	152.1
82.5°	88.5	85.8	91.3	99.6	105.1	102.4	102.4	99.6	91.3	88.5	88.5
85°	38.7	36.0	38.7	44.3	49.8	47.0	47.0	47.0	41.5	38.7	38.7
87.5°	5.5	5.5	5.5	8.3	11.1	8.3	8.3	8.3	5.5	5.5	5.5
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)