

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: P832856

Luminaire Tested: **TTN-D0-740-U-WQ-SG-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832856
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-D0-740-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: 1716.8 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

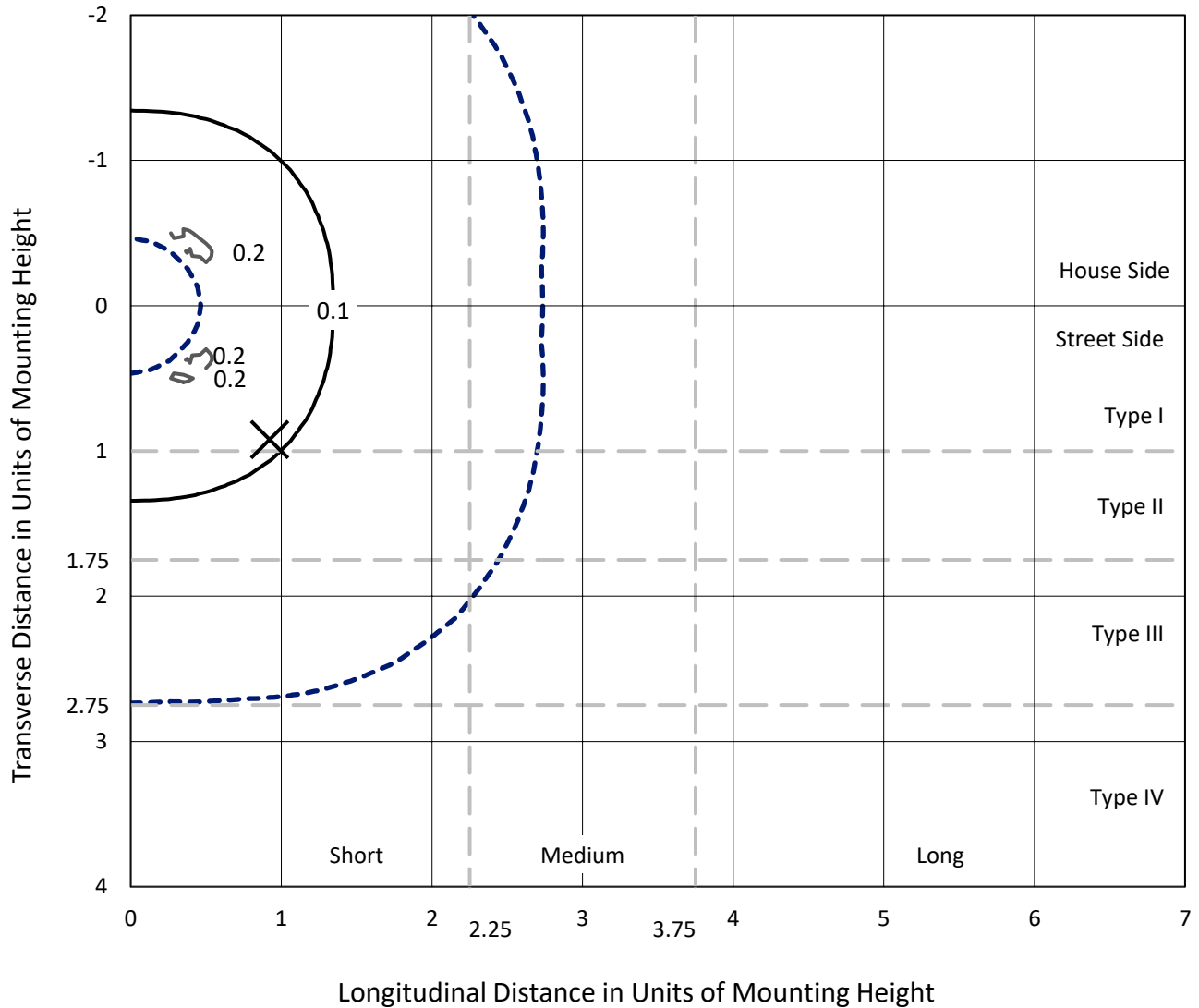
Input Watts (W): 15.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

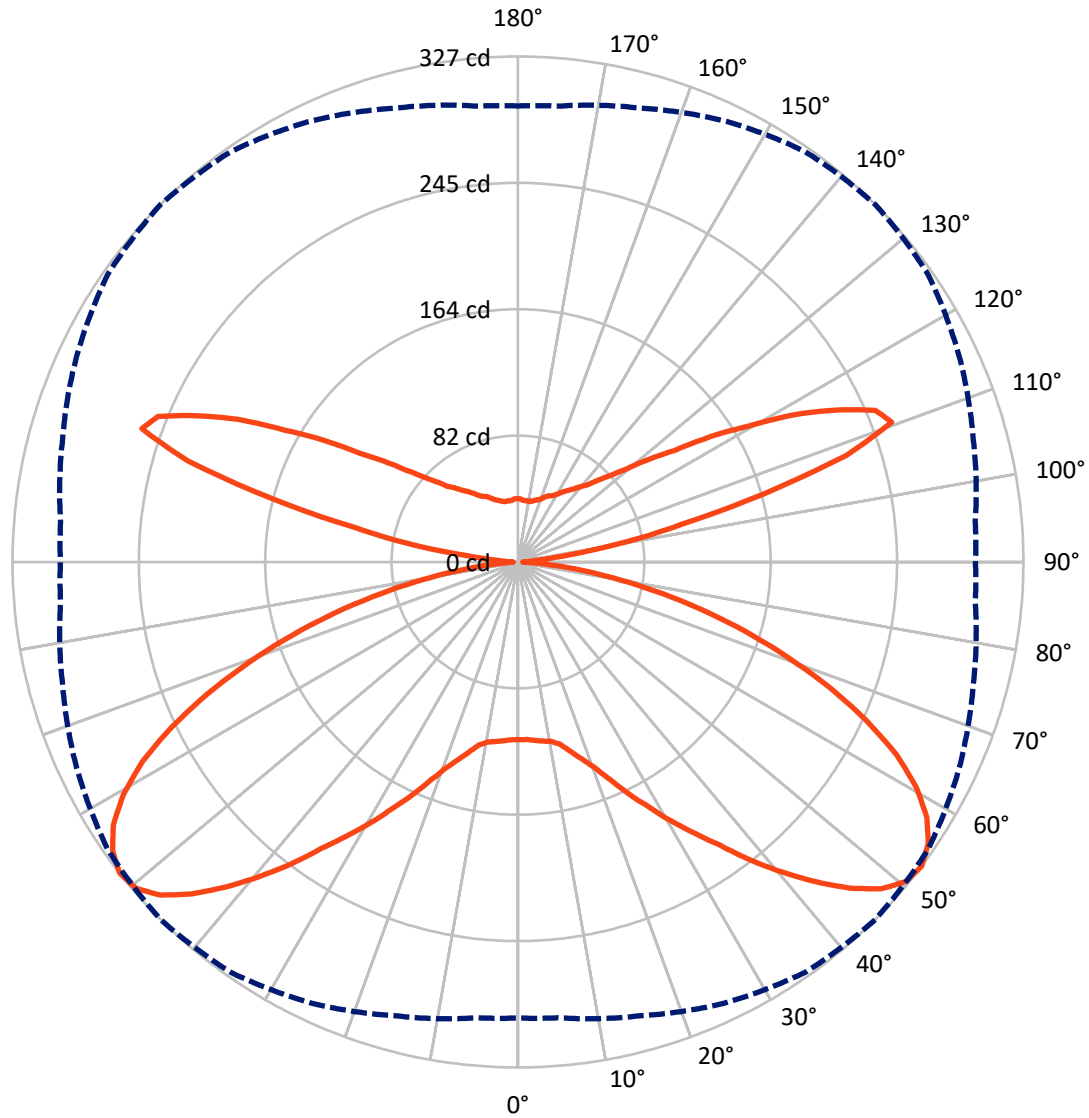
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.2 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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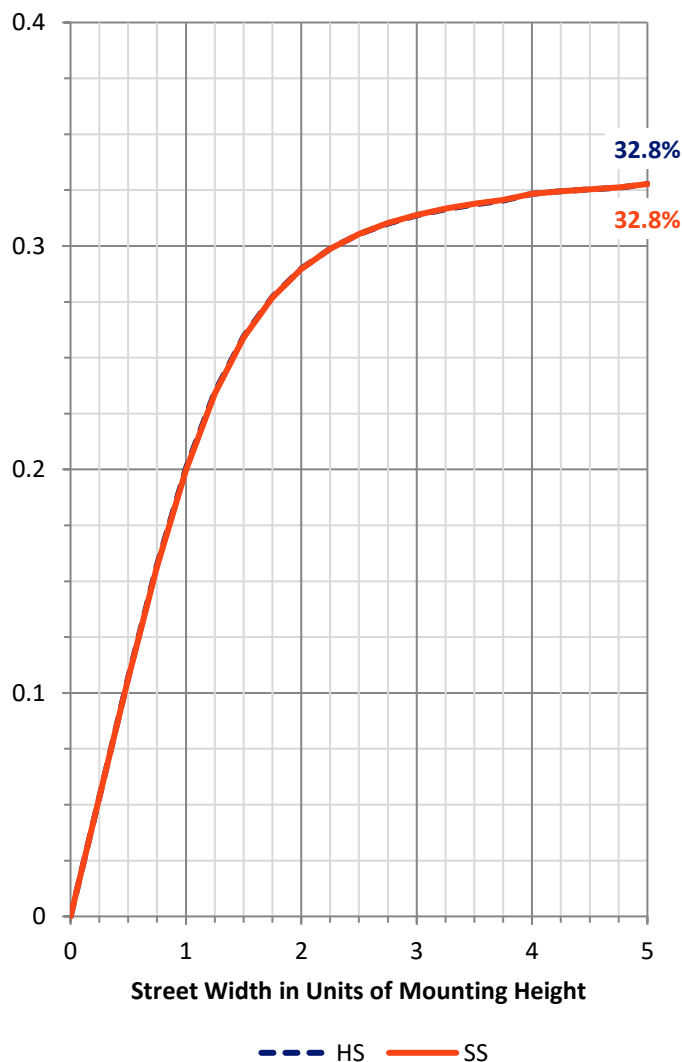
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	566.0	292.5	858.4
	% Fixture	33.0	17.0	50.0
Street Side	Lumens	566.0	292.5	858.4
	% Fixture	33.0	17.0	50.0
Total	Lumens	1131.9	584.9	1716.8
	% Fixture	65.9	34.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	0.6
10°-20°	36.5	2.1
20°-30°	77.0	4.5
30°-40°	140.7	8.2
40°-50°	224.0	13.0
50°-60°	270.9	15.8
60°-70°	227.8	13.3
70°-80°	120.7	7.0
80°-90°	23.1	1.3
90°-100°	13.1	0.8
100°-110°	132.7	7.7
110°-120°	194.0	11.3
120°-130°	112.6	6.6
130°-140°	59.7	3.5
140°-150°	35.4	2.1
150°-160°	21.8	1.3
160°-170°	11.9	0.7
170°-180°	3.9	0.2
0°-90°	1131.9	65.9
0°-180°	1716.8	100.0

Coefficient of Utilization

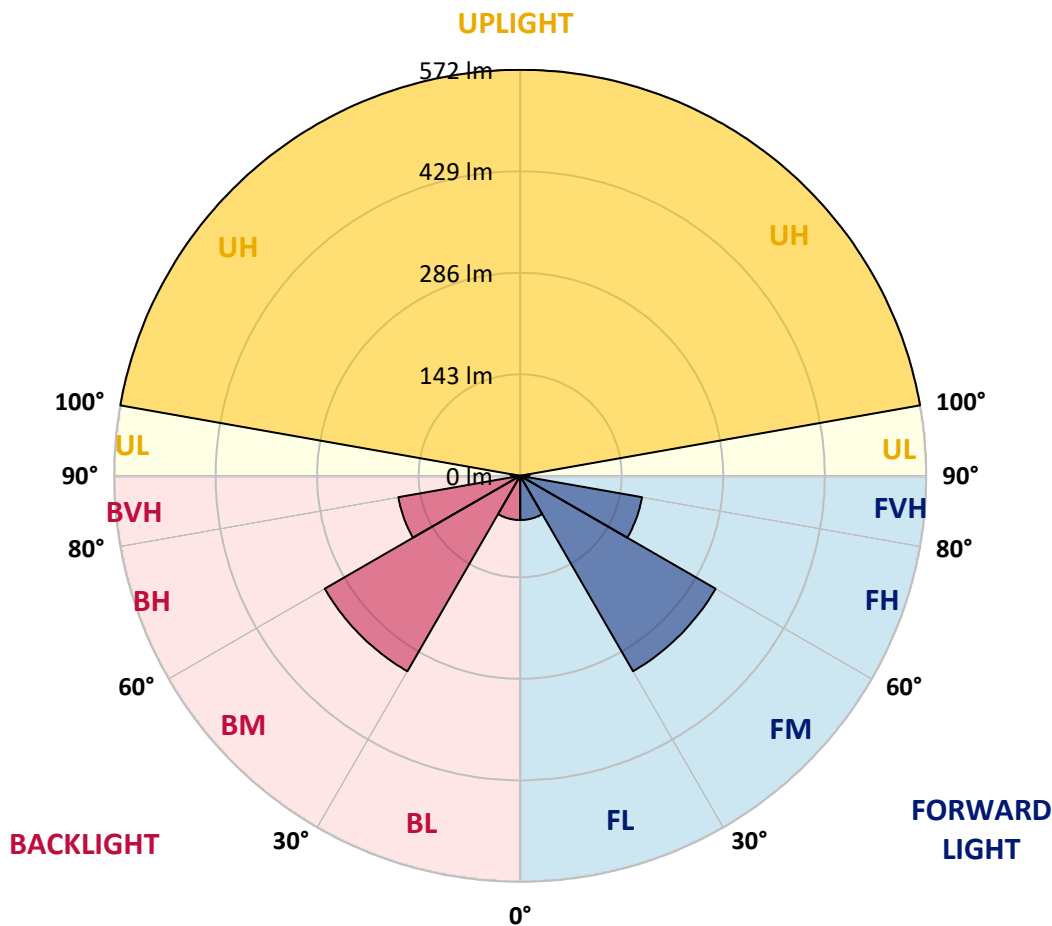


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	62.3	3.6			
FM (30°-60°)	317.8	18.5			
FH (60°-80°)	174.3	10.1			G0/660
FVH (80°-90°)	11.6	0.7			G1/100
BL (0°-30°)	62.3	3.6	B0/110		
BM (30°-60°)	317.8	18.5	B1/1000		
BH (60°-80°)	174.3	10.1	B1/500		G0/660
BVH (80°-90°)	11.6	0.7			G1/100
UL (90°-100°)	13.1	0.8		U2/50	
UH (100°-180°)	571.8	33.3		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°	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
2.5°	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
5°	116.0	116.0	115.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0
7.5°	116.0	116.0	116.0	117.0	117.0	117.0	117.0	116.0	116.0	116.0	116.0
10°	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0
12.5°	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0
15°	126.0	126.0	126.0	126.0	127.0	127.0	127.0	126.0	126.0	126.0	126.0
17.5°	132.0	132.0	133.0	133.0	134.0	134.0	134.0	133.0	132.0	133.0	132.0
20°	141.0	141.0	141.0	142.0	143.0	143.0	143.0	141.0	141.0	141.0	141.0
22.5°	151.0	151.0	151.0	152.0	153.0	153.0	153.0	151.0	151.0	151.0	151.0
25°	163.0	163.0	163.0	164.0	165.0	166.0	166.0	164.0	163.0	163.0	162.0
27.5°	175.0	175.0	177.0	178.0	179.0	179.0	179.0	177.0	176.0	176.0	176.0
30°	189.0	189.0	191.0	192.0	194.0	194.0	194.0	191.0	190.0	189.0	189.0
32.5°	202.0	203.0	205.0	207.0	209.0	209.0	210.0	206.0	204.0	203.0	203.0
35°	216.0	217.0	219.0	222.0	224.0	225.0	226.0	222.0	219.0	218.0	218.0
37.5°	232.0	233.0	236.0	239.0	243.0	245.0	246.0	240.0	235.0	233.0	233.0
40°	250.0	251.0	254.0	258.0	262.0	264.0	265.0	259.0	254.0	252.0	251.0
42.5°	265.0	267.0	270.0	276.0	280.0	283.0	283.0	276.0	270.0	267.0	267.0
45°	279.0	281.0	286.0	292.0	298.0	301.0	300.0	293.0	286.0	282.0	281.0
47.5°	290.0	292.0	298.0	305.0	313.0	316.0	315.0	307.0	298.0	293.0	292.0
50°	296.0	297.0	304.0	314.0	322.0	325.0	323.0	315.0	305.0	298.0	297.0
52.5°	295.0	296.0	304.0	315.0	324.0	327.0	324.0	315.0	305.0	297.0	296.0
55°	289.0	290.0	298.0	310.0	319.0	322.0	319.0	310.0	299.0	291.0	290.0
57.5°	278.0	279.0	287.0	299.0	309.0	312.0	308.0	298.0	287.0	279.0	279.0
60°	262.0	263.0	271.0	284.0	293.0	296.0	291.0	283.0	272.0	263.0	262.0
62.5°	241.0	241.0	250.0	263.0	271.0	275.0	270.0	261.0	251.0	241.0	242.0
65°	216.0	215.0	224.0	236.0	245.0	248.0	243.0	235.0	225.0	216.0	216.0
67.5°	190.0	190.0	197.0	207.0	215.0	218.0	213.0	206.0	198.0	190.0	190.0
70°	162.0	162.0	167.0	177.0	184.0	186.0	183.0	176.0	169.0	162.0	162.0
72.5°	134.0	133.0	138.0	146.0	152.0	154.0	151.0	147.0	139.0	134.0	134.0
75°	106.0	105.0	108.0	115.0	120.0	122.0	119.0	116.0	110.0	106.0	106.0
77.5°	79.0	78.0	81.0	87.0	90.0	91.0	89.0	87.0	82.0	79.0	79.0
80°	54.0	53.0	55.0	59.0	62.0	62.0	61.0	60.0	56.0	54.0	55.0
82.5°	32.0	31.0	33.0	36.0	38.0	37.0	37.0	36.0	33.0	32.0	32.0
85°	14.0	13.0	14.0	16.0	18.0	17.0	17.0	17.0	15.0	14.0	14.0
87.5°	2.0	2.0	2.0	3.0	4.0	3.0	3.0	3.0	2.0	2.0	2.0
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)