

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: P832953

Luminaire Tested: **TTN-D0-830-U-CQ-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832953
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-D0-830-U-CQ-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1836.7 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G0

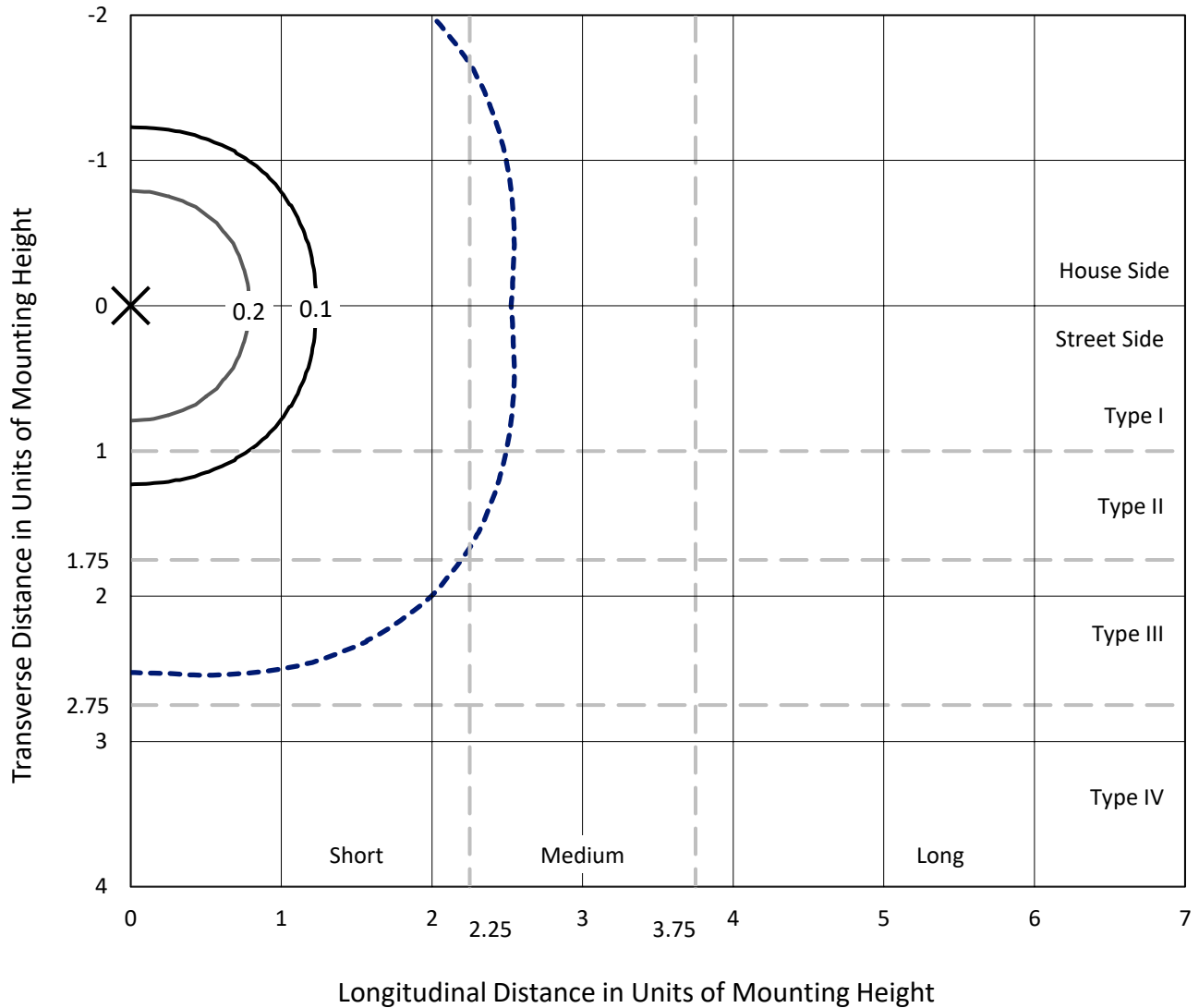
Input Watts (W): 17.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

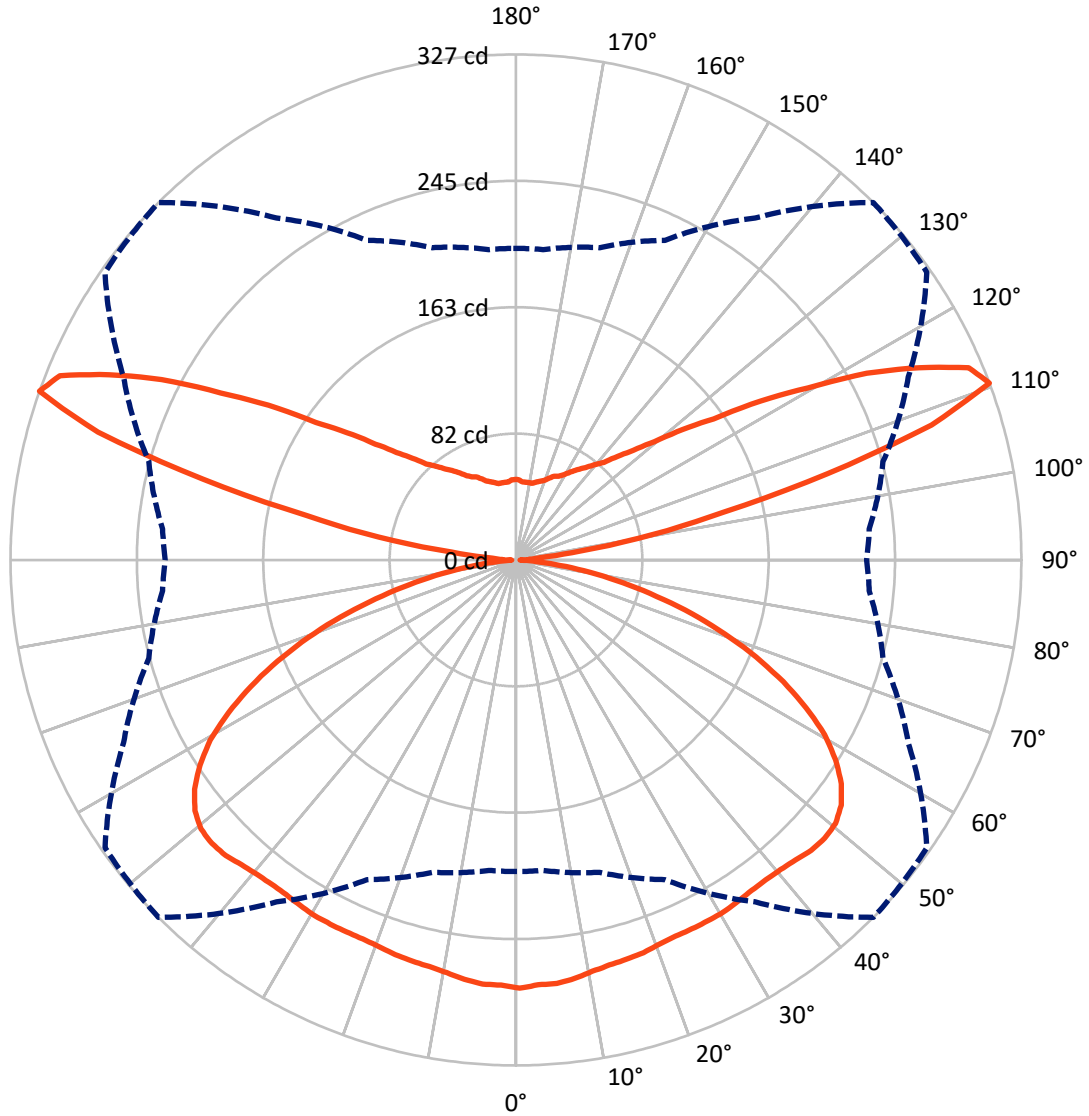
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 110-Deg Vertical

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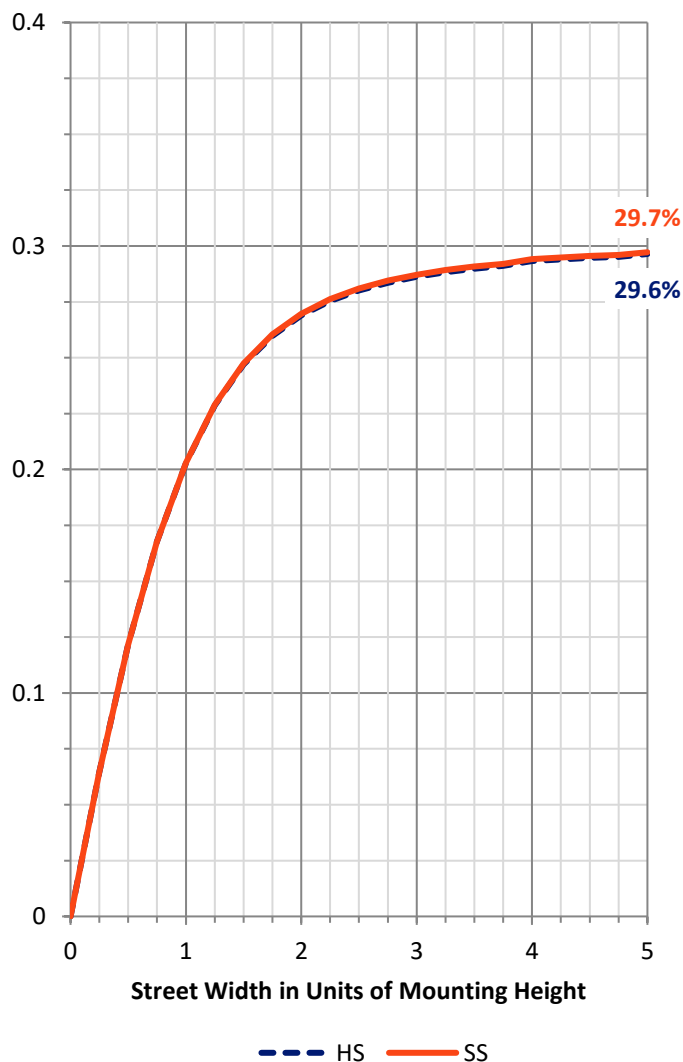
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	548.0	370.3	918.3
	% Fixture	29.8	20.2	50.0
Street Side	Lumens	548.0	370.3	918.3
	% Fixture	29.8	20.2	50.0
Total	Lumens	1096.0	740.7	1836.7
	% Fixture	59.7	40.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.1	1.4
10°-20°	75.8	4.1
20°-30°	122.1	6.6
30°-40°	164.2	8.9
40°-50°	202.6	11.0
50°-60°	217.3	11.8
60°-70°	176.2	9.6
70°-80°	93.4	5.1
80°-90°	18.3	1.0
90°-100°	16.5	0.9
100°-110°	168.0	9.1
110°-120°	245.6	13.4
120°-130°	142.5	7.8
130°-140°	75.5	4.1
140°-150°	44.9	2.4
150°-160°	27.6	1.5
160°-170°	15.1	0.8
170°-180°	4.9	0.3
0°-90°	1096.0	59.7
0°-180°	1836.7	100.0

Coefficient of Utilization

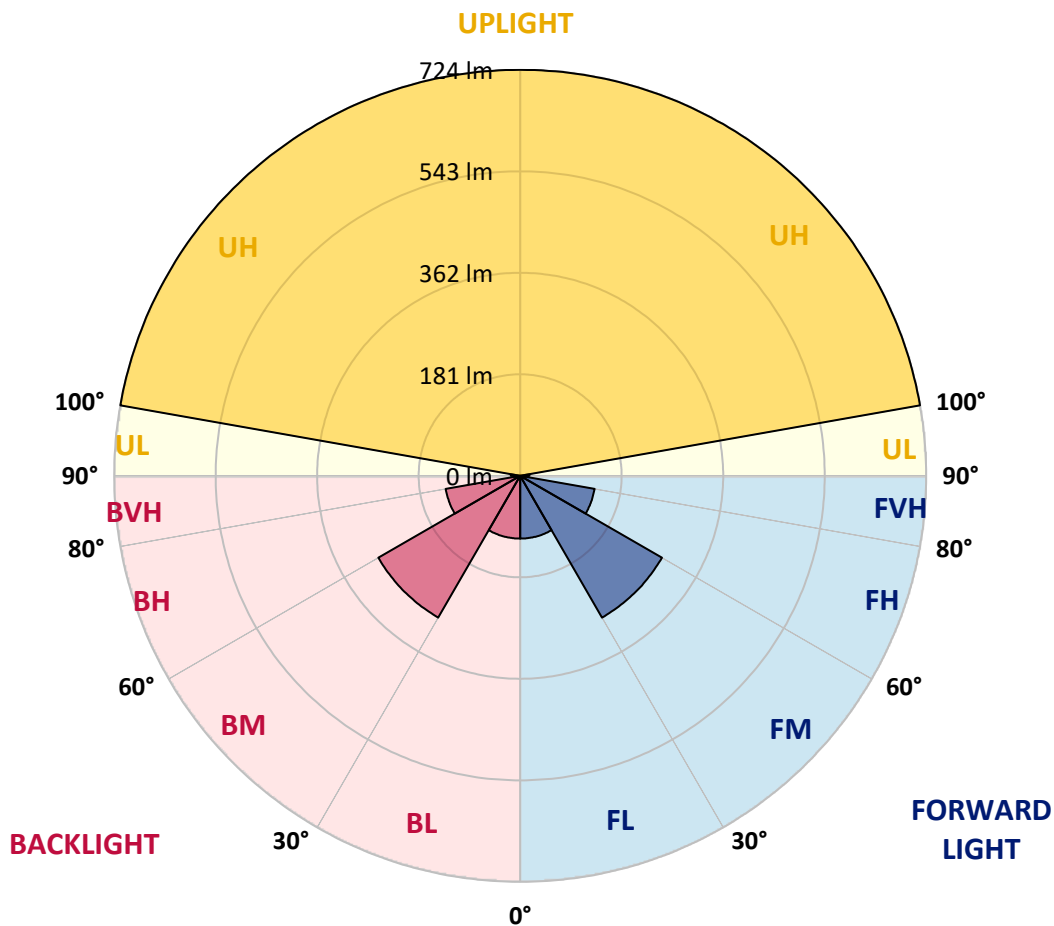


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	112.0	6.1			
FM (30°-60°)	292.0	15.9			
FH (60°-80°)	134.8	7.3			G0/660
FVH (80°-90°)	9.1	0.5			G0/10
BL (0°-30°)	112.0	6.1	B1/500		
BM (30°-60°)	292.0	15.9	B1/1000		
BH (60°-80°)	134.8	7.3	B1/500		G0/660
BVH (80°-90°)	9.1	0.5			G0/10
UL (90°-100°)	16.5	0.9		U2/50	
UH (100°-180°)	724.2	39.4		U4/1000	

BUG Rating: B1-U4-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	276.9	276.9	276.9	276.9	276.9	276.9	276.9	276.9	276.9	276.9	276.9
2.5°	275.1	275.1	275.1	275.1	275.1	275.1	275.1	275.1	275.1	275.1	276.0
5°	275.1	275.1	275.1	275.1	274.2	275.1	275.1	275.1	275.1	275.1	275.1
7.5°	273.3	273.3	273.3	273.3	273.3	273.3	273.3	273.3	273.3	273.3	273.3
10°	270.6	270.6	270.6	270.6	270.6	270.6	270.6	270.6	270.6	270.6	270.6
12.5°	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8
15°	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.0	267.0
17.5°	266.1	266.1	266.1	266.1	267.0	267.0	267.0	266.1	266.1	266.1	266.1
20°	264.3	264.3	264.3	265.2	265.2	265.2	265.2	265.2	264.3	264.3	264.3
22.5°	263.4	263.4	263.4	263.4	264.3	264.3	264.3	264.3	263.4	263.4	263.4
25°	262.5	262.5	263.4	263.4	264.3	264.3	264.3	263.4	263.4	262.5	262.5
27.5°	262.5	262.5	263.4	263.4	264.3	264.3	264.3	264.3	263.4	262.5	262.5
30°	261.7	262.5	262.5	263.4	264.3	264.3	264.3	263.4	262.5	261.7	261.7
32.5°	260.8	260.8	261.7	262.5	263.4	263.4	263.4	262.5	261.7	260.8	259.9
35°	259.9	259.9	259.9	261.7	262.5	262.5	262.5	261.7	259.9	259.0	259.0
37.5°	258.1	259.0	259.9	260.8	262.5	262.5	262.5	260.8	259.0	258.1	257.2
40°	258.1	258.1	259.9	260.8	263.4	263.4	262.5	260.8	259.0	257.2	256.3
42.5°	257.2	258.1	259.9	262.5	265.2	265.2	264.3	261.7	259.0	257.2	256.3
45°	257.2	257.2	259.9	263.4	267.0	267.9	266.1	263.4	259.9	256.3	256.3
47.5°	255.4	255.4	259.0	263.4	267.9	268.8	267.9	263.4	259.0	256.3	255.4
50°	250.9	250.9	255.4	260.8	266.1	267.9	266.1	262.5	256.3	252.7	251.8
52.5°	243.7	243.7	248.2	255.4	260.8	263.4	261.7	257.2	250.9	245.5	244.6
55°	233.0	233.9	238.4	246.4	252.7	255.4	253.6	248.2	241.0	235.7	233.9
57.5°	220.4	220.4	226.7	234.8	241.0	243.7	241.9	236.6	228.5	223.1	221.3
60°	203.4	204.3	209.7	220.4	226.7	229.4	227.6	221.3	212.4	206.1	204.3
62.5°	186.4	187.3	192.7	201.6	208.8	210.6	208.8	202.5	194.4	188.2	186.4
65°	166.7	167.6	173.8	181.9	187.3	190.0	187.3	181.9	174.7	168.5	167.6
67.5°	146.1	147.0	153.2	160.4	165.8	167.6	164.9	160.4	153.2	147.9	146.1
70°	124.6	125.5	130.8	137.1	141.6	143.4	141.6	136.2	130.8	125.5	124.6
72.5°	102.2	103.0	108.4	113.8	117.4	119.2	116.5	112.9	107.5	103.0	102.2
75°	80.6	80.6	85.1	89.6	93.2	94.1	92.3	89.6	85.1	81.5	79.8
77.5°	60.0	60.0	64.5	67.2	69.0	70.8	69.0	66.3	63.6	60.0	60.0
80°	40.3	40.3	43.9	45.7	47.5	48.4	47.5	45.7	43.9	41.2	40.3
82.5°	24.2	24.2	26.0	27.8	27.8	28.7	28.7	27.8	26.0	24.2	24.2
85°	10.8	9.9	11.6	12.5	12.5	13.4	13.4	12.5	11.6	10.8	10.8
87.5°	0.9	1.8	1.8	2.7	2.7	2.7	2.7	2.7	1.8	1.8	1.8
90°	6.3	6.3	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.3	6.3
92.5°	6.3	6.3	6.3	8.9	10.1	8.9	10.1	7.6	7.6	6.3	6.3
95°	7.6	7.6	8.9	11.4	13.9	15.2	15.2	8.9	8.9	7.6	7.6
97.5°	10.1	11.4	11.4	13.9	22.8	41.8	25.3	12.7	12.7	11.4	10.1
100°	16.5	17.7	17.7	31.7	67.2	90.0	64.6	32.9	24.1	17.7	17.7
102.5°	53.2	55.8	68.4	102.6	152.1	138.1	116.6	110.2	76.0	60.8	58.3
105°	135.6	134.3	144.5	171.1	212.9	209.1	192.6	174.9	150.8	139.4	139.4
107.5°	178.7	178.7	187.5	210.4	242.0	282.6	286.4	226.8	198.9	186.3	185.0
110°	201.5	201.5	209.1	228.1	269.9	326.9	324.4	280.0	245.8	229.4	226.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	206.5	207.8	218.0	247.1	292.7	318.1	306.7	288.9	273.7	261.0	258.5
115°	214.2	214.2	225.6	253.4	278.8	288.9	276.2	262.3	252.2	247.1	249.6
117.5°	211.6	215.4	218.0	233.2	249.6	257.2	250.9	231.9	224.3	221.8	218.0
120°	196.4	196.4	198.9	206.5	215.4	219.2	216.7	204.0	197.7	196.4	193.9
122.5°	174.9	176.1	174.9	178.7	185.0	188.8	186.3	176.1	173.6	173.6	171.1
125°	153.3	153.3	152.1	154.6	158.4	157.1	158.4	153.3	152.1	152.1	150.8
127.5°	138.1	136.9	134.3	135.6	136.9	136.9	138.1	133.1	134.3	135.6	134.3
130°	122.9	122.9	120.4	120.4	120.4	117.8	120.4	117.8	119.1	120.4	121.6
132.5°	109.0	109.0	105.2	103.9	103.9	103.9	105.2	103.9	106.4	109.0	109.0
135°	97.6	97.6	93.8	95.0	95.0	93.8	95.0	93.8	96.3	97.6	97.6
137.5°	88.7	88.7	86.2	86.2	86.2	84.9	86.2	86.2	87.4	90.0	91.2
140°	81.1	81.1	79.8	79.8	78.6	79.8	79.8	79.8	81.1	82.4	82.4
142.5°	77.3	76.0	74.8	73.5	74.8	74.8	74.8	73.5	74.8	77.3	77.3
145°	71.0	71.0	69.7	69.7	69.7	71.0	69.7	69.7	71.0	71.0	72.2
147.5°	67.2	67.2	65.9	67.2	67.2	67.2	67.2	65.9	67.2	67.2	68.4
150°	65.9	64.6	63.4	64.6	64.6	63.4	63.4	63.4	63.4	64.6	64.6
152.5°	62.1	62.1	60.8	62.1	60.8	60.8	60.8	60.8	60.8	62.1	63.4
155°	59.6	59.6	58.3	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
157.5°	57.0	58.3	57.0	57.0	57.0	57.0	57.0	57.0	57.0	58.3	58.3
160°	55.8	55.8	55.8	55.8	54.5	54.5	54.5	55.8	55.8	55.8	57.0
162.5°	54.5	54.5	54.5	54.5	53.2	53.2	53.2	53.2	54.5	54.5	55.8
165°	54.5	53.2	53.2	53.2	52.0	52.0	52.0	52.0	53.2	54.5	53.2
167.5°	52.0	52.0	52.0	52.0	52.0	50.7	50.7	52.0	52.0	52.0	53.2
170°	52.0	52.0	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	52.0
172.5°	52.0	52.0	52.0	52.0	50.7	50.7	50.7	50.7	50.7	52.0	52.0
175°	52.0	52.0	52.0	52.0	50.7	50.7	50.7	52.0	52.0	52.0	50.7
177.5°	52.0	52.0	52.0	52.0	50.7	52.0	52.0	52.0	52.0	52.0	52.0
180°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0

(END OF REPORT)