

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: P832966

Luminaire Tested: **TTN-D0-830-U-RW-CG-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832966
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-RW-CG-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1290.9 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B1 - U3 - G1

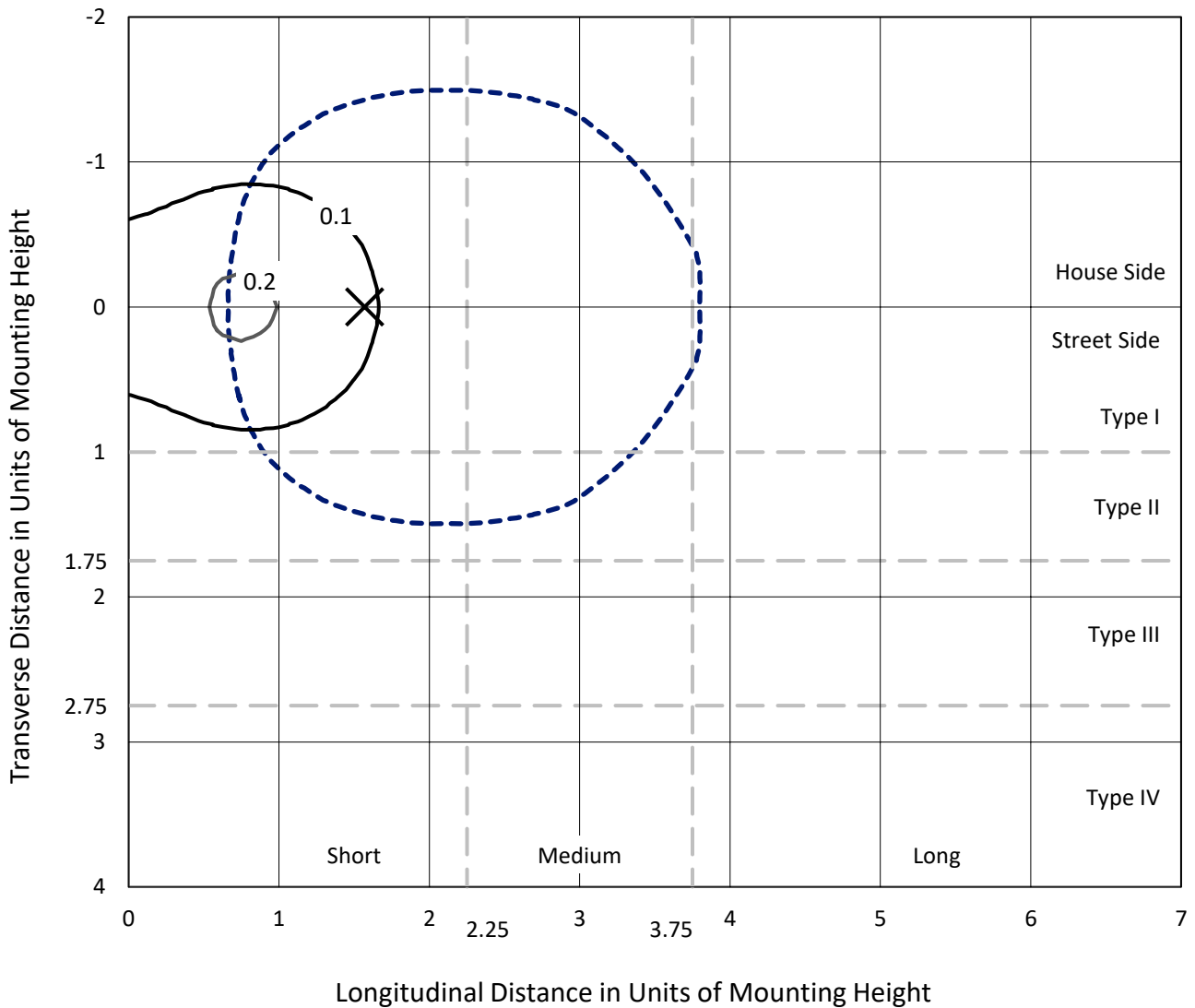
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

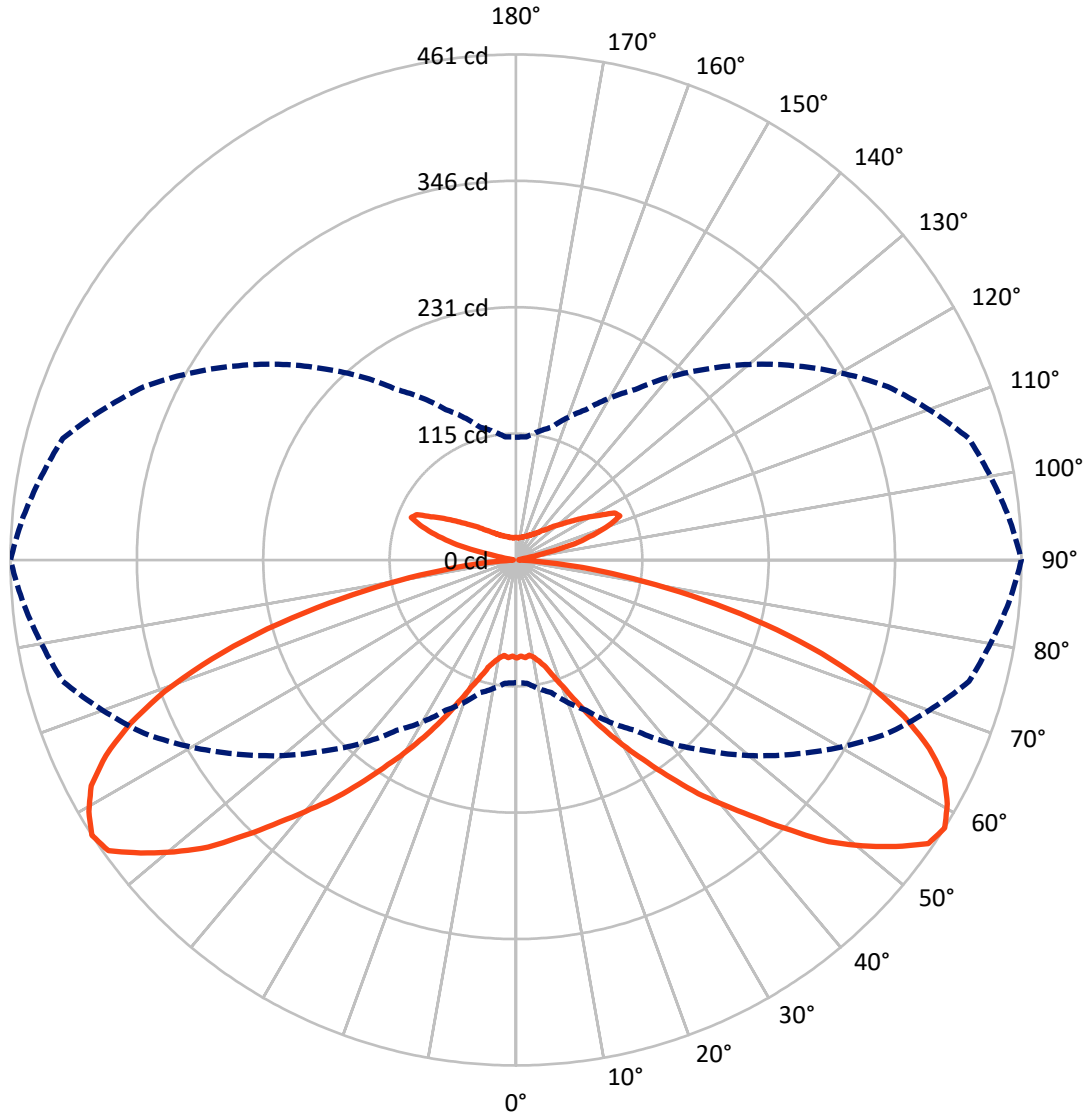
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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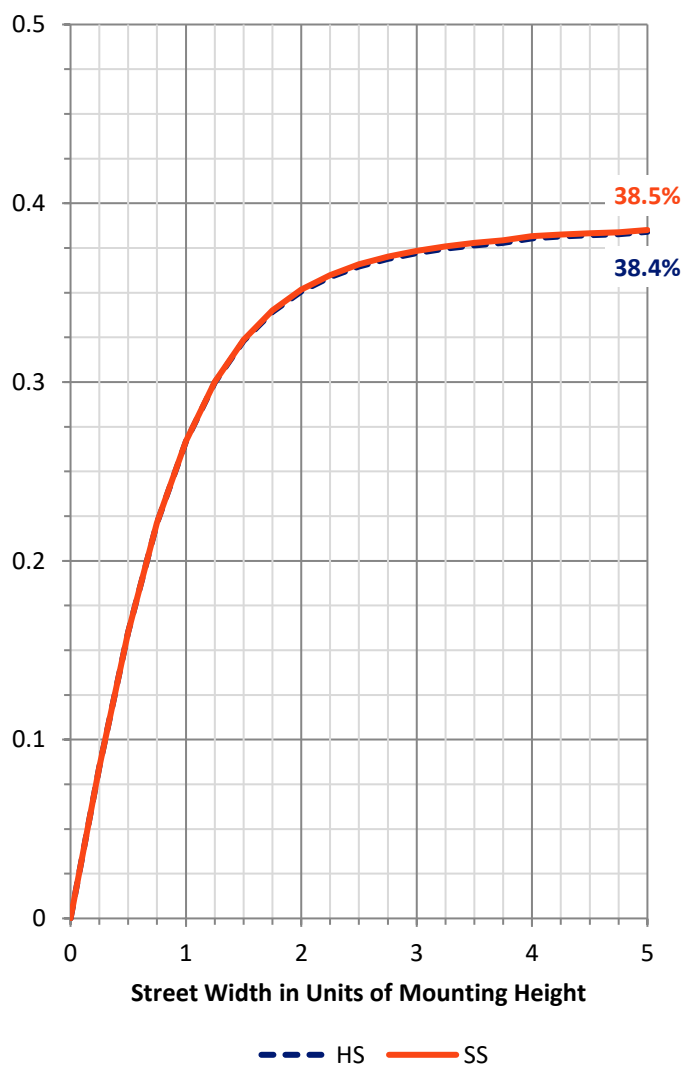
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	497.7	147.7	645.4
	% Fixture	38.6	11.4	50.0
Street Side	Lumens	497.7	147.7	645.4
	% Fixture	38.6	11.4	50.0
Total	Lumens	995.4	295.5	1290.9
	% Fixture	77.1	22.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.7
10°-20°	27.5	2.1
20°-30°	58.5	4.5
30°-40°	107.8	8.4
40°-50°	173.6	13.5
50°-60°	235.0	18.2
60°-70°	228.5	17.7
70°-80°	133.0	10.3
80°-90°	22.9	1.8
90°-100°	6.6	0.5
100°-110°	67.0	5.2
110°-120°	98.0	7.6
120°-130°	56.9	4.4
130°-140°	30.1	2.3
140°-150°	17.9	1.4
150°-160°	11.0	0.9
160°-170°	6.0	0.5
170°-180°	2.0	0.2
0°-90°	995.4	77.1
0°-180°	1290.9	100.0

Coefficient of Utilization

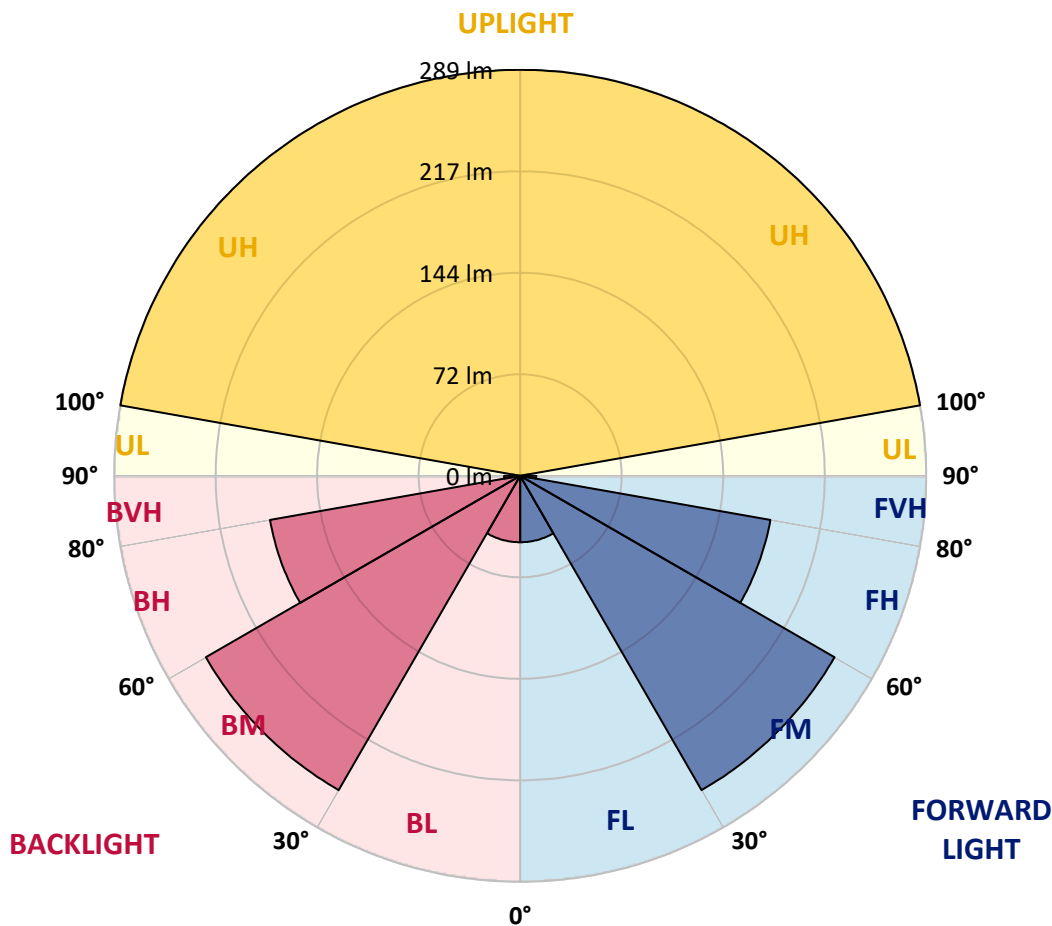


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	47.3	3.7			
FM (30°-60°)	258.3	20.0			
FH (60°-80°)	180.7	14.0			G0/660
FVH (80°-90°)	11.4	0.9			G1/100
BL (0°-30°)	47.3	3.7	B0/110		
BM (30°-60°)	258.3	20.0	B1/1000		
BH (60°-80°)	180.7	14.0	B1/500		G1/500
BVH (80°-90°)	11.4	0.9			G1/100
UL (90°-100°)	6.6	0.5		U1/10	
UH (100°-180°)	288.9	22.4		U3/500	

BUG Rating: B1-U3-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
2.5°	89.5	89.5	89.5	89.5	88.6	88.6	88.6	87.7	87.7	87.7	87.7
5°	89.5	89.5	89.5	90.4	90.4	90.4	89.5	89.5	89.5	89.5	89.5
7.5°	89.5	90.4	90.4	89.5	89.5	88.6	88.6	88.6	87.7	87.7	87.7
10°	89.5	89.5	89.5	89.5	88.6	88.6	89.5	89.5	90.4	90.4	90.4
12.5°	88.6	88.6	89.5	89.5	89.5	90.4	92.2	93.1	94.0	94.9	94.9
15°	89.5	89.5	90.4	91.3	92.2	94.0	96.7	99.4	101.2	102.1	101.2
17.5°	89.5	90.4	91.3	93.1	95.8	98.5	103.0	106.5	110.1	111.0	111.9
20°	91.3	91.3	92.2	95.8	100.3	104.7	111.0	117.3	121.8	123.5	123.5
22.5°	92.2	93.1	94.0	98.5	105.6	112.8	121.8	128.9	135.2	138.8	139.7
25°	94.9	94.9	96.7	103.0	111.9	122.6	134.3	145.0	153.1	157.6	158.5
27.5°	96.7	97.6	100.3	108.3	120.0	133.4	149.5	162.0	171.9	177.3	178.2
30°	98.5	99.4	104.7	113.7	128.0	144.1	162.9	179.0	191.6	197.8	198.7
32.5°	101.2	102.1	108.3	118.2	135.2	154.9	176.4	196.1	214.0	219.3	220.2
35°	103.8	104.7	111.9	123.5	143.2	165.6	190.7	214.0	235.4	242.6	244.4
37.5°	106.5	107.4	114.6	128.9	151.3	177.3	206.8	234.6	257.8	267.7	270.4
40°	109.2	110.1	118.2	134.3	159.4	189.8	223.8	254.2	281.1	292.7	294.5
42.5°	111.0	111.9	120.9	138.8	167.4	201.4	241.7	275.7	304.4	319.6	321.4
45°	113.7	114.6	124.4	145.0	174.6	214.9	258.7	299.9	333.0	350.0	351.8
47.5°	115.5	116.4	127.1	148.6	182.6	227.4	276.6	321.4	360.8	378.7	384.1
50°	116.4	117.3	128.9	152.2	188.0	236.3	291.0	342.9	385.0	407.3	410.0
52.5°	116.4	118.2	129.8	154.9	191.6	244.4	302.6	360.8	408.2	433.3	434.2
55°	115.5	116.4	128.9	154.0	193.4	248.0	310.6	371.5	424.3	448.5	456.6
57.5°	111.9	112.8	125.3	151.3	189.8	246.2	308.9	374.2	427.9	451.2	461.1
60°	106.5	108.3	120.0	145.0	184.4	239.9	303.5	368.8	422.6	451.2	452.1
62.5°	100.3	101.2	112.8	137.0	176.4	230.1	293.6	358.1	410.0	439.6	438.7
65°	91.3	92.2	102.1	127.1	162.0	211.3	273.9	341.1	385.9	417.2	414.5
67.5°	81.5	82.4	91.3	113.7	145.0	190.7	247.1	312.4	351.8	384.1	382.3
70°	70.7	70.7	78.8	97.6	127.1	167.4	217.5	274.8	314.2	341.1	342.0
72.5°	58.2	58.2	65.4	81.5	106.5	140.6	183.5	234.6	266.8	290.1	291.8
75°	45.7	44.8	51.0	64.5	84.2	111.9	145.0	188.9	214.0	236.3	235.4
77.5°	32.2	32.2	35.8	46.6	60.9	83.3	107.4	142.3	159.4	178.2	174.6
80°	20.6	20.6	22.4	30.4	40.3	55.5	70.7	96.7	108.3	122.6	118.2
82.5°	10.7	9.8	11.6	16.1	21.5	30.4	39.4	56.4	61.8	72.5	68.9
85°	3.6	3.6	3.6	5.4	8.1	11.6	15.2	24.2	25.1	32.2	29.5
87.5°	0.9	0.0	0.0	0.9	0.9	0.9	0.9	2.7	2.7	5.4	3.6
90°	2.5	2.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.5	2.5
92.5°	2.5	2.5	2.5	3.5	4.0	3.5	4.0	3.0	3.0	2.5	2.5
95°	3.0	3.0	3.5	4.5	5.6	6.1	6.1	3.5	3.5	3.0	3.0
97.5°	4.0	4.5	4.5	5.6	9.1	16.7	10.1	5.1	5.1	4.5	4.0
100°	6.6	7.1	7.1	12.6	26.8	35.9	25.8	13.1	9.6	7.1	7.1
102.5°	21.2	22.2	27.3	40.9	60.7	55.1	46.5	44.0	30.3	24.3	23.3
105°	54.1	53.6	57.6	68.2	84.9	83.4	76.8	69.8	60.2	55.6	55.6
107.5°	71.3	71.3	74.8	83.9	96.6	112.7	114.2	90.5	79.4	74.3	73.8
110°	80.4	80.4	83.4	91.0	107.7	130.4	129.4	111.7	98.1	91.5	90.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	82.4	82.9	86.9	98.6	116.8	126.9	122.3	115.3	109.2	104.1	103.1
115°	85.4	85.4	90.0	101.1	111.2	115.3	110.2	104.6	100.6	98.6	99.6
117.5°	84.4	85.9	86.9	93.0	99.6	102.6	100.1	92.5	89.5	88.5	86.9
120°	78.4	78.4	79.4	82.4	85.9	87.5	86.4	81.4	78.9	78.4	77.3
122.5°	69.8	70.3	69.8	71.3	73.8	75.3	74.3	70.3	69.3	69.3	68.2
125°	61.2	61.2	60.7	61.7	63.2	62.7	63.2	61.2	60.7	60.7	60.2
127.5°	55.1	54.6	53.6	54.1	54.6	54.6	55.1	53.1	53.6	54.1	53.6
130°	49.0	49.0	48.0	48.0	48.0	47.0	48.0	47.0	47.5	48.0	48.5
132.5°	43.5	43.5	42.0	41.5	41.5	41.5	42.0	41.5	42.5	43.5	43.5
135°	38.9	38.9	37.4	37.9	37.9	37.4	37.9	37.4	38.4	38.9	38.9
137.5°	35.4	35.4	34.4	34.4	34.4	33.9	34.4	34.4	34.9	35.9	36.4
140°	32.4	32.4	31.8	31.8	31.3	31.8	31.8	31.8	32.4	32.9	32.9
142.5°	30.8	30.3	29.8	29.3	29.8	29.8	29.8	29.3	29.8	30.8	30.8
145°	28.3	28.3	27.8	27.8	27.8	28.3	27.8	27.8	28.3	28.3	28.8
147.5°	26.8	26.8	26.3	26.8	26.8	26.8	26.8	26.3	26.8	26.8	27.3
150°	26.3	25.8	25.3	25.8	25.8	25.3	25.3	25.3	25.3	25.8	25.8
152.5°	24.8	24.8	24.3	24.8	24.3	24.3	24.3	24.3	24.3	24.8	25.3
155°	23.8	23.8	23.3	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
157.5°	22.7	23.3	22.7	22.7	22.7	22.7	22.7	22.7	22.7	23.3	23.3
160°	22.2	22.2	22.2	22.2	21.7	21.7	21.7	22.2	22.2	22.2	22.7
162.5°	21.7	21.7	21.7	21.7	21.2	21.2	21.2	21.2	21.7	21.7	22.2
165°	21.7	21.2	21.2	21.2	20.7	20.7	20.7	20.7	21.2	21.7	21.2
167.5°	20.7	20.7	20.7	20.7	20.7	20.2	20.2	20.7	20.7	20.7	21.2
170°	20.7	20.7	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.7
172.5°	20.7	20.7	20.7	20.7	20.2	20.2	20.2	20.2	20.2	20.7	20.7
175°	20.7	20.7	20.7	20.7	20.2	20.2	20.2	20.7	20.7	20.7	20.2
177.5°	20.7	20.7	20.7	20.7	20.2	20.7	20.7	20.7	20.7	20.7	20.7
180°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7

(END OF REPORT)