

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: P832963

Luminaire Tested: **TTN-D0-830-U-MQ-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832963
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-MQ-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1437.8 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U3 - G1

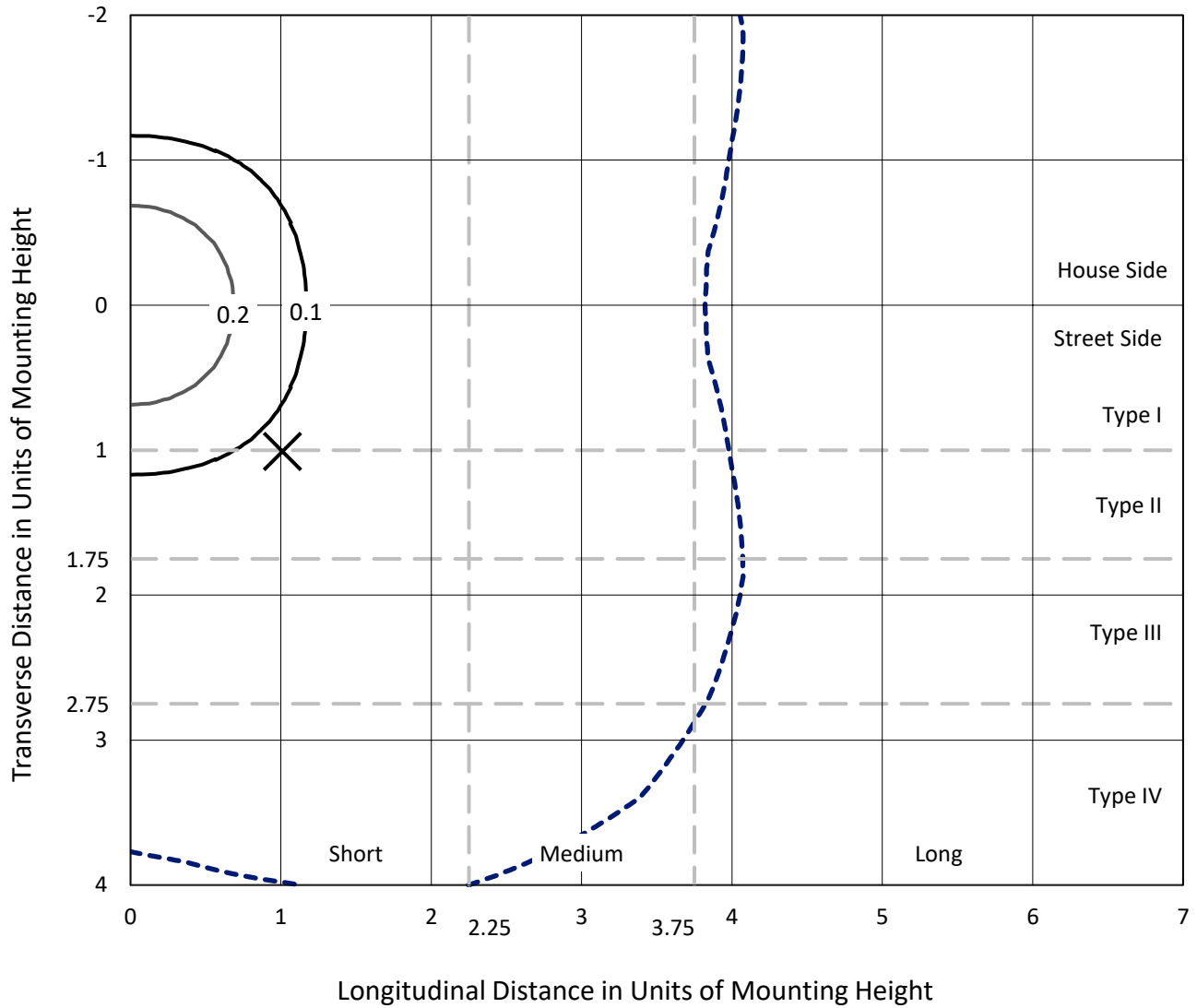
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

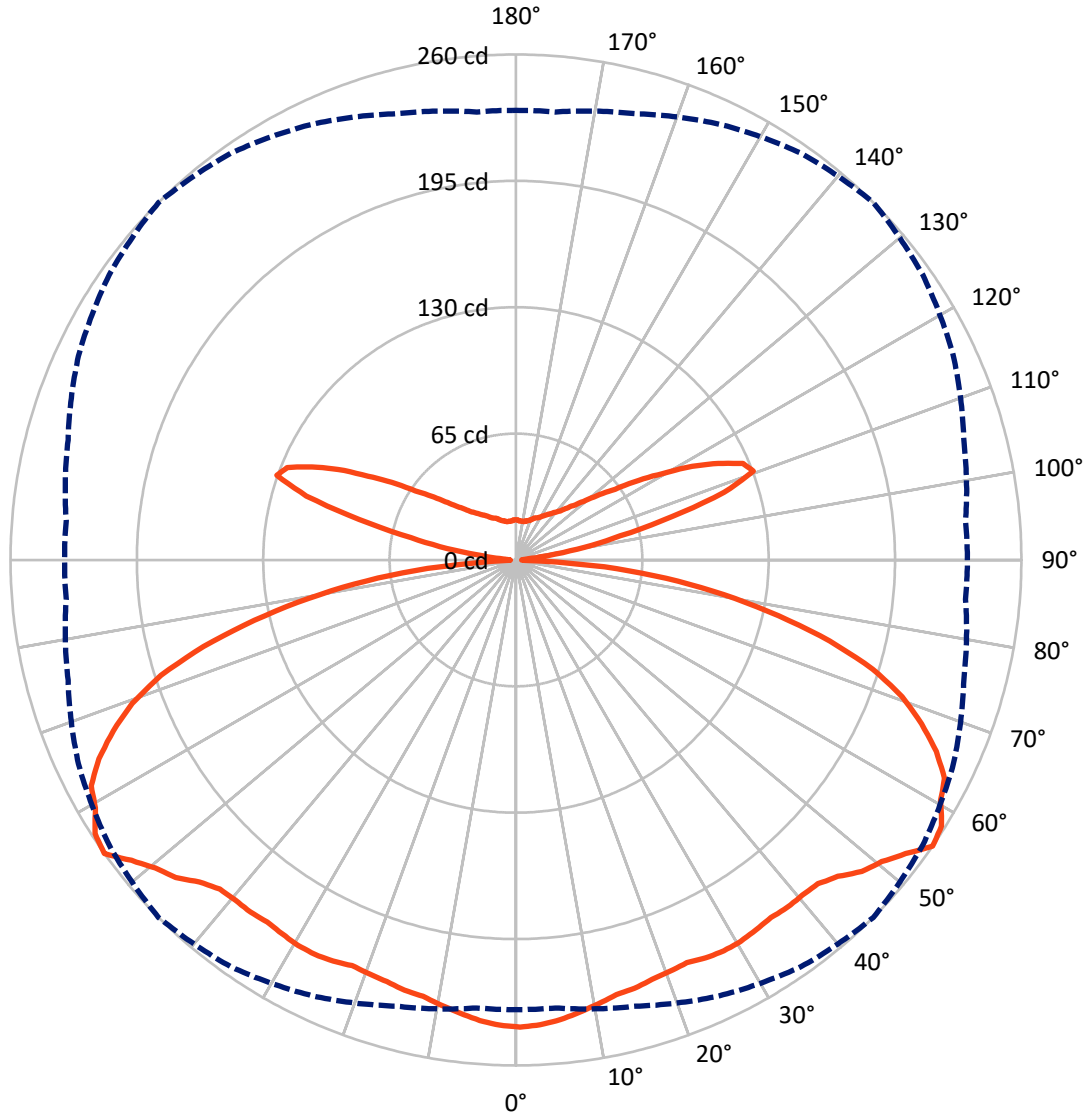
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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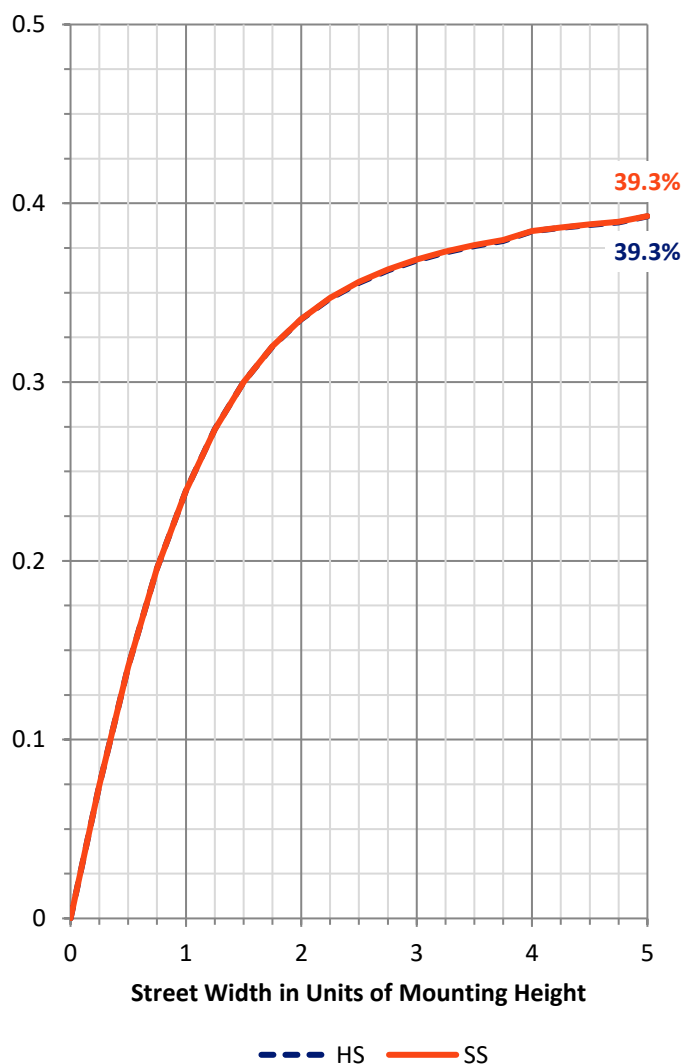
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	571.2	147.7	718.9
	% Fixture	39.7	10.3	50.0
Street Side	Lumens	571.2	147.7	718.9
	% Fixture	39.7	10.3	50.0
Total	Lumens	1142.4	295.5	1437.8
	% Fixture	79.5	20.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.5	1.6
10°-20°	64.6	4.5
20°-30°	104.3	7.3
30°-40°	141.2	9.8
40°-50°	176.8	12.3
50°-60°	216.7	15.1
60°-70°	217.3	15.1
70°-80°	156.8	10.9
80°-90°	42.2	2.9
90°-100°	6.6	0.5
100°-110°	67.0	4.7
110°-120°	98.0	6.8
120°-130°	56.9	4.0
130°-140°	30.1	2.1
140°-150°	17.9	1.2
150°-160°	11.0	0.8
160°-170°	6.0	0.4
170°-180°	2.0	0.1
0°-90°	1142.4	79.5
0°-180°	1437.8	100.0

Coefficient of Utilization



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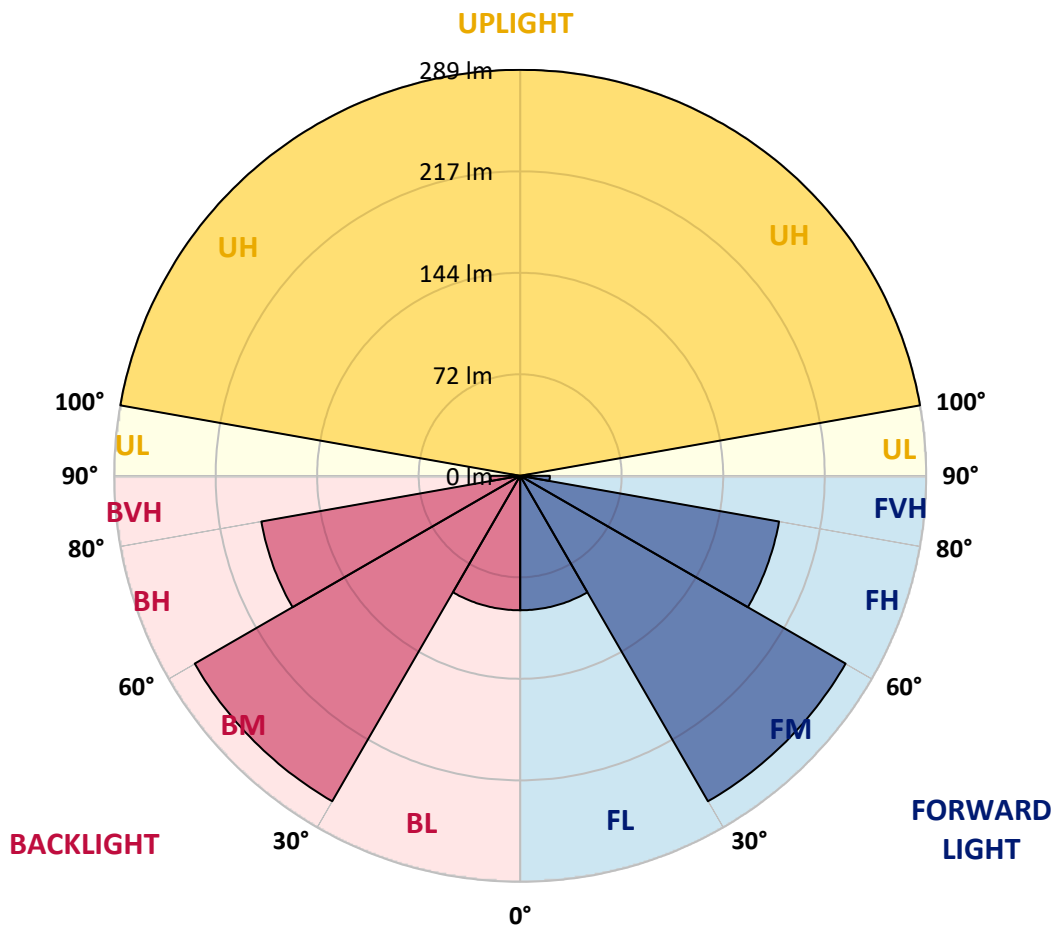
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	95.7	6.7			
FM (30°-60°)	267.4	18.6			
FH (60°-80°)	187.0	13.0			G0/660
FVH (80°-90°)	21.1	1.5			G1/100
BL (0°-30°)	95.7	6.7	B0/110		
BM (30°-60°)	267.4	18.6	B1/1000		
BH (60°-80°)	187.0	13.0	B1/500		G0/660
BVH (80°-90°)	21.1	1.5			G1/100
UL (90°-100°)	6.6	0.5		U1/10	
UH (100°-180°)	288.9	20.1		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°	240.3	240.3	240.3	240.3	240.3	240.3	240.3	240.3	240.3	240.3	240.3
2.5°	239.4	239.4	239.4	238.5	239.4	239.4	239.4	239.4	239.4	239.4	239.4
5°	237.6	237.6	237.6	237.6	237.6	237.6	237.6	237.6	237.6	237.6	237.6
7.5°	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9
10°	231.3	231.3	231.3	231.3	232.2	232.2	232.2	232.2	231.3	231.3	231.3
12.5°	228.6	228.6	228.6	229.5	229.5	229.5	229.5	229.5	229.5	229.5	228.6
15°	227.7	227.7	227.7	227.7	228.6	228.6	228.6	228.6	227.7	227.7	227.7
17.5°	225.9	225.9	225.9	226.8	226.8	226.8	226.8	226.8	225.9	225.9	225.9
20°	224.1	224.1	225.0	225.0	225.9	225.9	225.9	225.0	225.0	224.1	225.0
22.5°	224.1	224.1	224.1	225.0	225.0	225.0	225.0	224.1	224.1	224.1	224.1
25°	224.1	224.1	225.0	225.9	225.9	226.8	225.9	225.0	224.1	224.1	224.1
27.5°	225.0	225.0	225.9	226.8	226.8	227.7	226.8	225.9	225.0	225.0	225.0
30°	225.0	225.0	225.9	226.8	226.8	227.7	226.8	225.9	225.0	225.0	225.0
32.5°	223.2	224.1	225.0	225.9	226.8	226.8	226.8	225.9	225.0	224.1	224.1
35°	222.3	223.2	224.1	225.0	225.9	225.9	225.9	225.0	224.1	223.2	223.2
37.5°	221.4	221.4	223.2	224.1	225.0	226.8	225.9	224.1	223.2	222.3	222.3
40°	220.5	221.4	222.3	224.1	225.0	226.8	225.9	224.1	222.3	221.4	221.4
42.5°	220.5	220.5	222.3	224.1	225.9	227.7	226.8	225.0	222.3	221.4	220.5
45°	221.4	222.3	225.0	228.6	230.4	232.2	231.3	228.6	224.1	222.3	221.4
47.5°	225.0	225.9	228.6	232.2	236.7	239.4	236.7	232.2	228.6	225.9	225.0
50°	226.8	227.7	232.2	236.7	243.0	243.9	243.0	236.7	232.2	227.7	227.7
52.5°	230.4	230.4	235.8	243.9	249.2	251.0	249.2	244.8	235.8	231.3	230.4
55°	231.3	231.3	237.6	247.4	255.5	260.0	255.5	248.3	238.5	232.2	232.2
57.5°	225.9	227.7	235.8	245.6	255.5	258.2	255.5	246.5	236.7	228.6	227.7
60°	219.6	222.3	229.5	241.2	248.3	251.0	249.2	241.2	230.4	222.3	221.4
62.5°	213.4	217.0	225.0	234.0	244.8	247.4	244.8	234.0	225.0	217.0	213.4
65°	199.9	203.5	215.2	225.9	235.8	237.6	236.7	225.9	215.2	203.5	201.7
67.5°	186.5	189.2	197.2	214.3	222.3	225.0	223.2	213.4	198.1	189.2	188.3
70°	172.1	174.8	182.0	198.1	206.2	210.7	207.1	198.1	182.0	174.8	173.9
72.5°	153.3	156.9	165.0	179.3	187.4	191.9	188.3	179.3	165.0	156.0	154.2
75°	130.9	133.6	143.4	155.1	163.2	166.8	164.1	156.0	143.4	133.6	132.7
77.5°	106.7	109.4	118.3	130.0	134.5	138.1	135.4	129.1	118.3	109.4	108.5
80°	80.7	83.4	91.4	100.4	104.9	108.5	105.8	99.5	91.4	83.4	82.5
82.5°	52.9	55.6	62.8	69.9	74.4	78.0	75.3	69.0	63.7	55.6	54.7
85°	22.4	25.1	31.4	38.6	42.1	45.7	43.0	37.7	31.4	26.0	25.1
87.5°	1.8	2.7	2.7	3.6	2.7	4.5	2.7	2.7	2.7	2.7	2.7
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)