

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: P832969

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832969
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-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1357.9 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B1 - U3 - G1

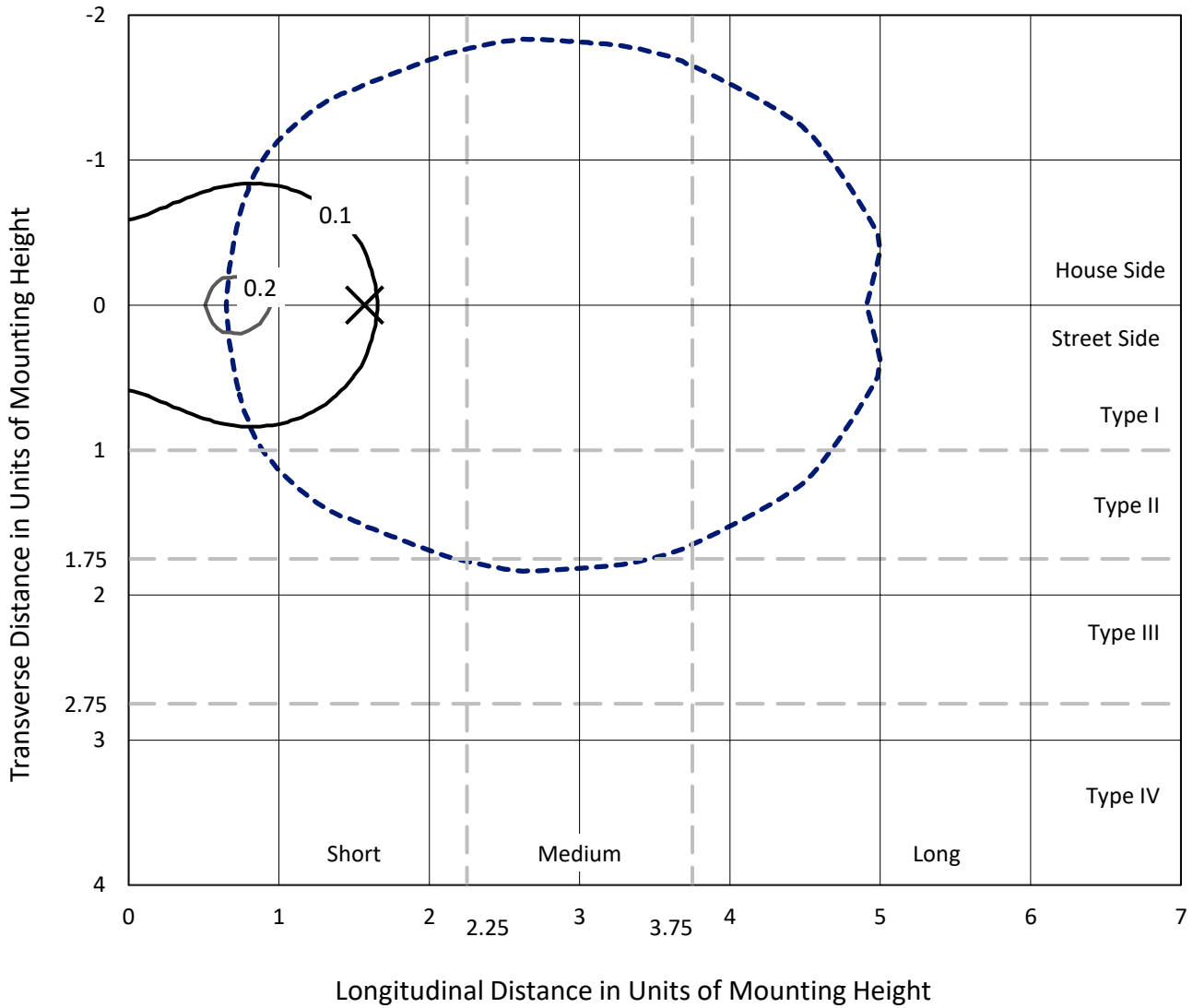
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

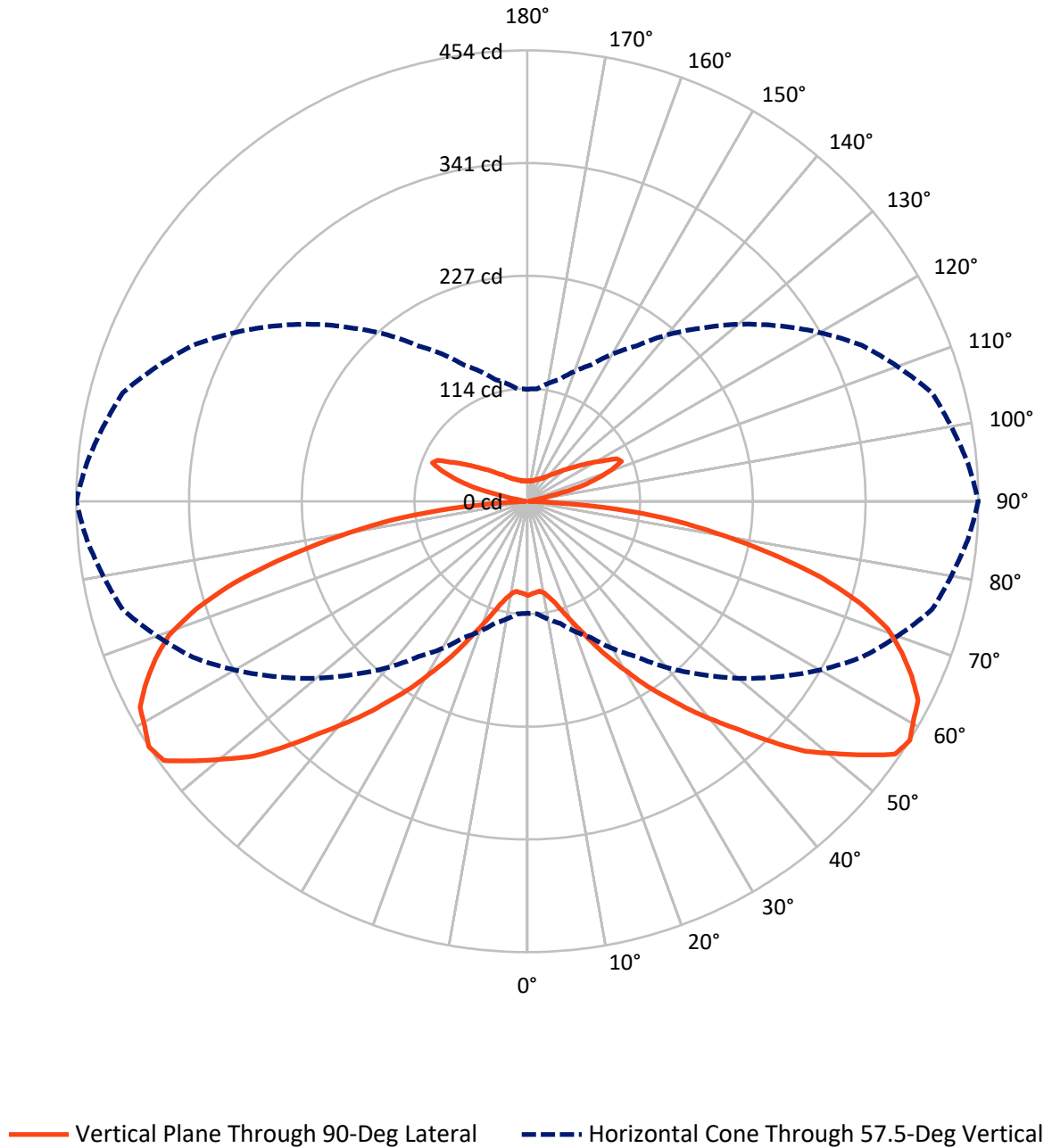
× Max cd
 - - - 1/2 Max cd



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



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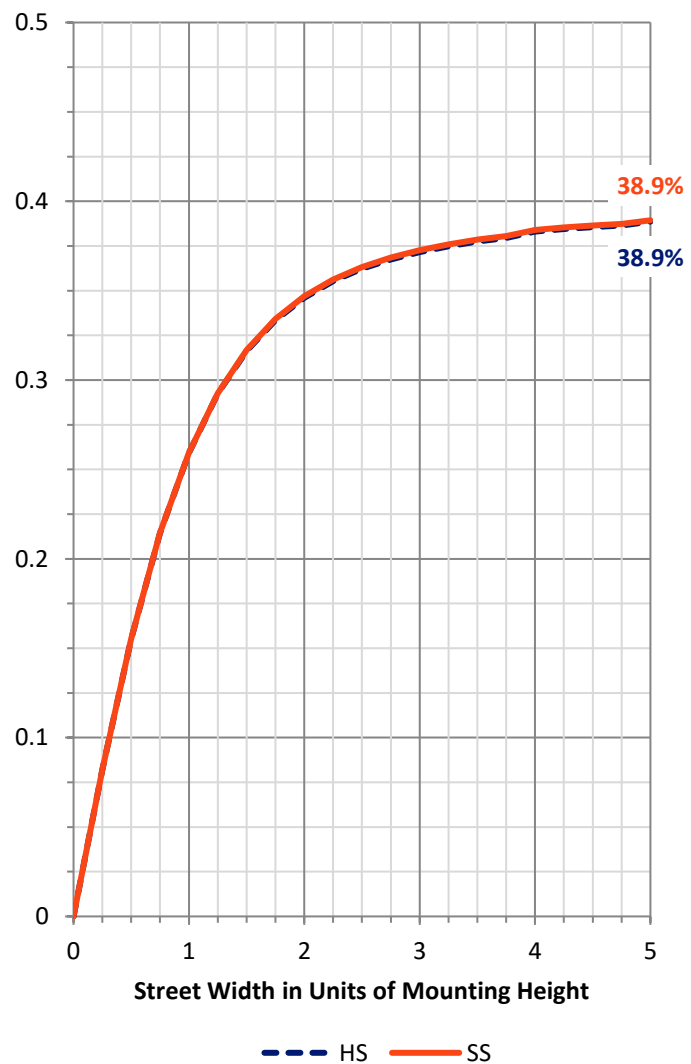
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	531.2	147.7	678.9
	% Fixture	39.1	10.9	50.0
Street Side	Lumens	531.2	147.7	678.9
	% Fixture	39.1	10.9	50.0
Total	Lumens	1062.4	295.5	1357.9
	% Fixture	78.2	21.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	0.7
10°-20°	28.5	2.1
20°-30°	59.4	4.4
30°-40°	106.6	7.8
40°-50°	170.3	12.5
50°-60°	233.1	17.2
60°-70°	240.5	17.7
70°-80°	171.0	12.6
80°-90°	44.2	3.3
90°-100°	6.6	0.5
100°-110°	67.0	4.9
110°-120°	98.0	7.2
120°-130°	56.9	4.2
130°-140°	30.1	2.2
140°-150°	17.9	1.3
150°-160°	11.0	0.8
160°-170°	6.0	0.4
170°-180°	2.0	0.1
0°-90°	1062.4	78.2
0°-180°	1357.9	100.0



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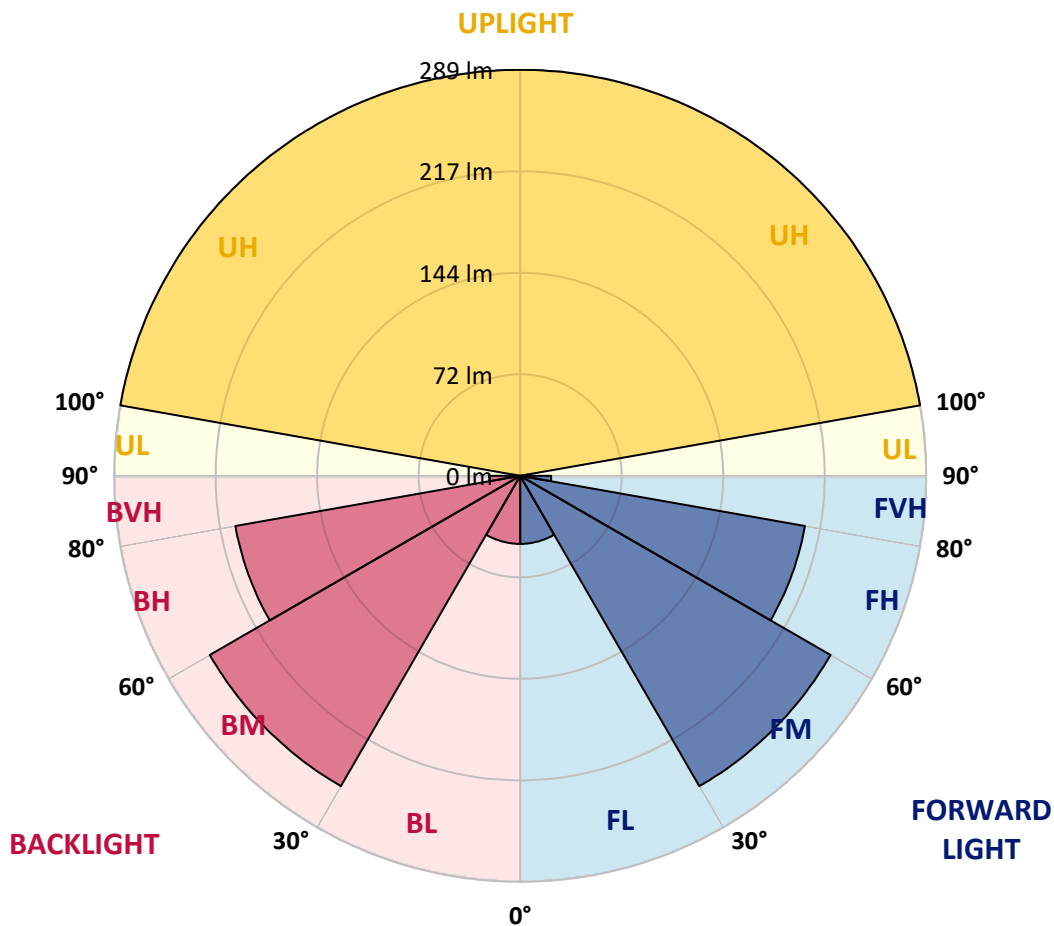
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	48.4	3.6			
FM (30°-60°)	255.0	18.8			
FH (60°-80°)	205.7	15.2			G0/660
FVH (80°-90°)	22.1	1.6			G1/100
BL (0°-30°)	48.4	3.6	B0/110		
BM (30°-60°)	255.0	18.8	B1/1000		
BH (60°-80°)	205.7	15.2	B1/500		G1/500
BVH (80°-90°)	22.1	1.6			G1/100
UL (90°-100°)	6.6	0.5		U1/10	
UH (100°-180°)	288.9	21.3		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°	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
2.5°	95.0	95.0	94.1	94.1	94.1	93.2	93.2	93.2	93.2	92.3	93.2
5°	95.0	95.0	95.0	95.0	94.1	93.2	93.2	93.2	92.3	92.3	92.3
7.5°	94.1	94.1	94.1	94.1	93.2	92.3	92.3	92.3	91.4	91.4	91.4
10°	93.2	94.1	93.2	93.2	92.3	92.3	93.2	93.2	94.1	94.1	94.1
12.5°	92.3	92.3	92.3	93.2	93.2	94.1	95.9	97.7	98.6	99.5	99.5
15°	92.3	92.3	93.2	94.1	95.9	97.7	100.4	103.1	104.9	106.7	106.7
17.5°	92.3	92.3	93.2	95.9	98.6	102.2	106.7	110.2	113.8	116.5	117.4
20°	92.3	92.3	94.1	97.7	103.1	108.4	114.7	120.1	125.5	130.0	130.0
22.5°	93.2	94.1	95.9	100.4	108.4	116.5	124.6	132.6	138.9	144.3	144.3
25°	95.0	95.0	97.7	104.9	114.7	125.5	137.1	147.0	155.0	162.2	162.2
27.5°	95.9	96.8	100.4	109.3	121.9	135.3	151.5	163.1	173.9	180.1	181.0
30°	97.7	98.6	104.0	112.9	128.2	145.2	164.0	180.1	191.8	198.1	199.9
32.5°	98.6	99.5	106.7	117.4	134.4	154.2	175.7	196.3	212.4	219.6	222.3
35°	101.3	102.2	109.3	121.9	141.6	164.0	189.1	213.3	232.1	241.1	242.9
37.5°	104.0	104.9	112.0	126.4	148.8	174.8	203.4	231.2	252.7	263.5	267.1
40°	105.8	106.7	114.7	131.7	156.8	186.4	219.6	250.0	274.2	287.7	290.4
42.5°	108.4	109.3	118.3	136.2	164.0	198.1	236.6	270.7	296.7	311.9	315.5
45°	111.1	112.0	121.9	141.6	172.1	210.6	253.6	294.9	324.4	342.4	345.9
47.5°	113.8	114.7	125.5	147.0	180.1	223.2	271.6	316.4	352.2	369.2	376.4
50°	114.7	116.5	127.3	150.6	185.5	233.9	286.8	337.9	375.5	397.9	399.7
52.5°	115.6	117.4	129.1	153.3	190.0	242.0	299.3	355.8	399.7	426.6	424.8
55°	116.5	116.5	129.1	153.3	191.8	247.4	308.3	367.5	415.8	437.4	449.9
57.5°	112.9	113.8	127.3	151.5	190.9	246.5	308.3	371.9	422.1	445.4	454.4
60°	108.4	110.2	122.8	147.0	187.3	243.8	306.5	370.1	424.8	449.9	447.2
62.5°	102.2	105.8	116.5	140.7	181.9	237.5	303.8	365.7	418.5	444.5	441.8
65°	95.0	98.6	108.4	134.4	170.3	222.3	289.5	356.7	401.5	431.1	425.7
67.5°	87.8	90.5	100.4	123.7	156.8	206.1	270.7	337.0	377.3	409.6	406.9
70°	79.8	80.7	90.5	111.1	143.4	190.0	252.7	309.2	355.8	380.0	385.4
72.5°	69.9	69.9	79.8	97.7	127.3	168.5	228.5	277.8	321.7	342.4	350.4
75°	57.4	58.3	66.3	82.5	106.7	144.3	194.5	244.7	281.4	302.9	305.6
77.5°	44.8	45.7	52.0	65.4	86.0	116.5	160.4	199.9	234.8	253.6	248.3
80°	32.3	33.2	37.6	47.5	63.6	86.9	123.7	158.6	183.7	199.0	191.8
82.5°	19.7	20.6	23.3	29.6	40.3	56.5	84.2	110.2	130.0	142.5	139.8
85°	9.9	9.9	11.7	13.4	17.0	25.1	40.3	55.6	70.8	79.8	77.1
87.5°	1.8	2.7	2.7	2.7	2.7	1.8	2.7	2.7	2.7	4.5	1.8
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)