

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: P833179

Luminaire Tested: **TTN-D1-735-U-RW-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833179
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-D1-735-U-RW-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3408.9 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B2 - U3 - G2

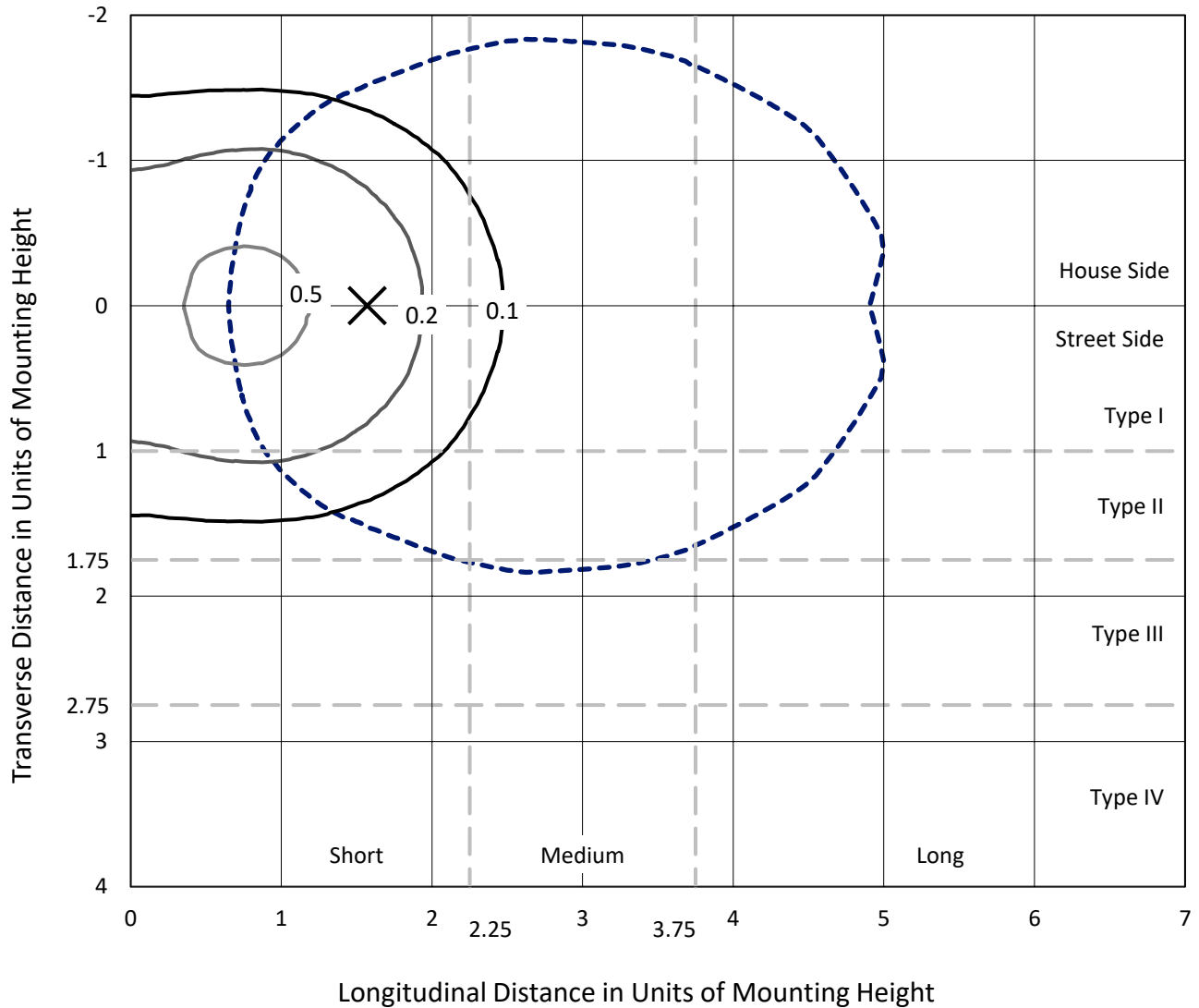
Input Watts (W): 29
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

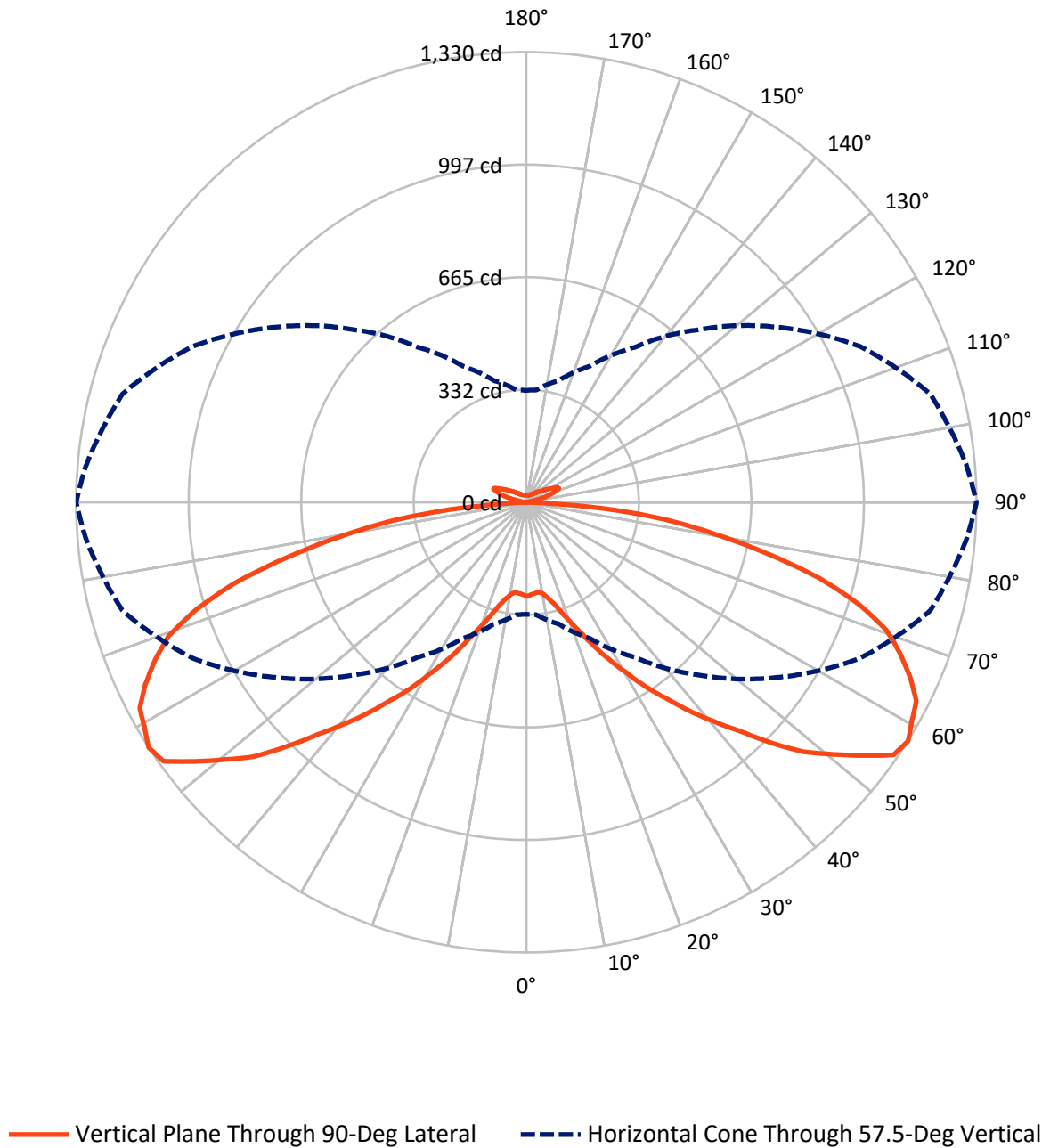
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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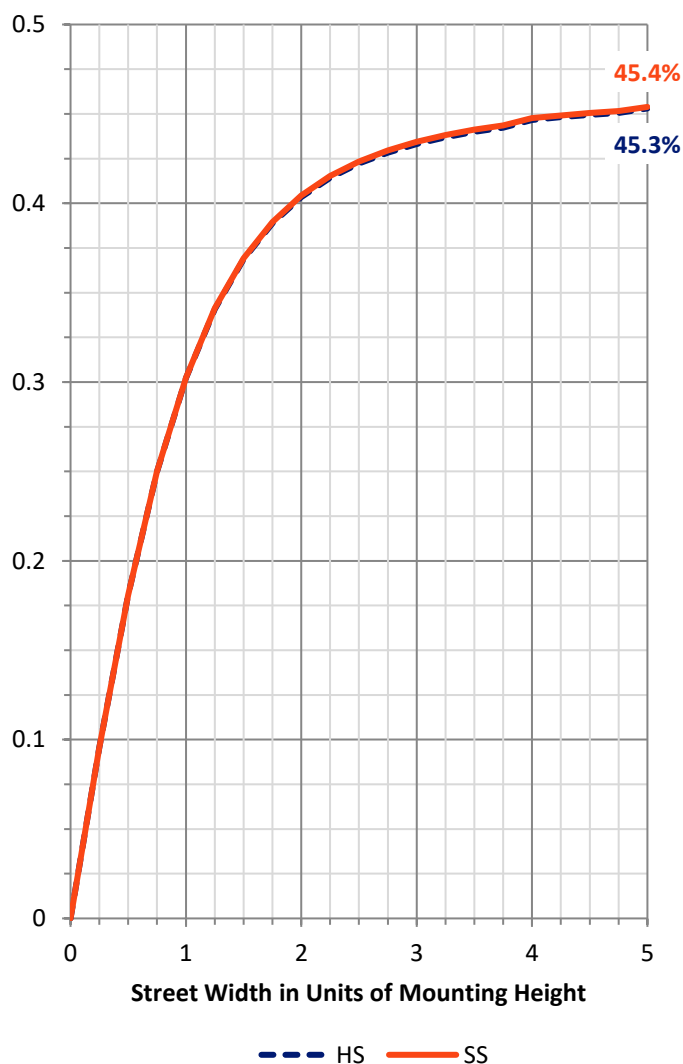
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1554.2	150.2	1704.4
	% Fixture	45.6	4.4	50.0
Street Side	Lumens	1554.2	150.2	1704.4
	% Fixture	45.6	4.4	50.0
Total	Lumens	3108.4	300.5	3408.9
	% Fixture	91.2	8.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.1	0.8
10°-20°	83.4	2.4
20°-30°	173.9	5.1
30°-40°	311.9	9.1
40°-50°	498.3	14.6
50°-60°	682.2	20.0
60°-70°	703.7	20.6
70°-80°	500.4	14.7
80°-90°	128.5	3.8
90°-100°	6.7	0.2
100°-110°	68.2	2.0
110°-120°	99.6	2.9
120°-130°	57.8	1.7
130°-140°	30.6	0.9
140°-150°	18.2	0.5
150°-160°	11.2	0.3
160°-170°	6.1	0.2
170°-180°	2.0	0.1
0°-90°	3108.4	91.2
0°-180°	3408.9	100.0

Coefficient of Utilization

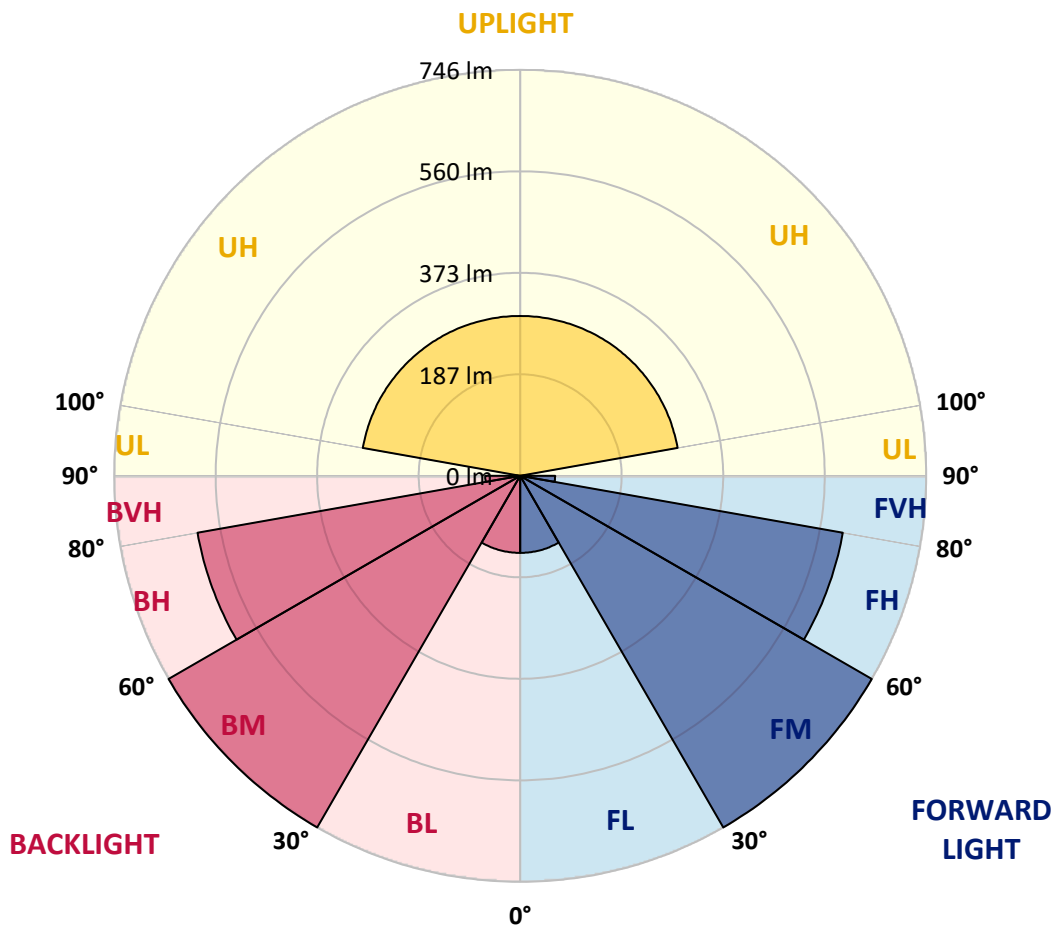


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	141.7	4.2			
FM (30°-60°)	746.2	21.9			
FH (60°-80°)	602.1	17.7			G0/660
FVH (80°-90°)	64.2	1.9			G1/100
BL (0°-30°)	141.7	4.2	B1/500		
BM (30°-60°)	746.2	21.9	B1/1000		
BH (60°-80°)	602.1	17.7	B2/1000		G2/1000
BVH (80°-90°)	64.2	1.9			G1/100
UL (90°-100°)	6.7	0.2		U1/10	
UH (100°-180°)	293.8	8.6		U3/500	

BUG Rating: B2-U3-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0
2.5°	278.0	278.0	275.4	275.4	275.4	272.8	272.8	272.8	272.8	270.2	272.8
5°	278.0	278.0	278.0	278.0	275.4	272.8	272.8	272.8	270.2	270.2	270.2
7.5°	275.4	275.4	275.4	275.4	272.8	270.2	270.2	270.2	267.5	267.5	267.5
10°	272.8	275.4	272.8	272.8	270.2	270.2	272.8	272.8	275.4	275.4	275.4
12.5°	270.2	270.2	270.2	272.8	272.8	275.4	280.6	285.9	288.5	291.1	291.1
15°	270.2	270.2	272.8	275.4	280.6	285.9	293.8	301.6	306.9	312.1	312.1
17.5°	270.2	270.2	272.8	280.6	288.5	299.0	312.1	322.6	333.1	341.0	343.6
20°	270.2	270.2	275.4	285.9	301.6	317.4	335.7	351.5	367.2	380.3	380.3
22.5°	272.8	275.4	280.6	293.8	317.4	341.0	364.6	388.2	406.5	422.3	422.3
25°	278.0	278.0	285.9	306.9	335.7	367.2	401.3	430.1	453.8	474.7	474.7
27.5°	280.6	283.3	293.8	320.0	356.7	396.1	443.3	477.4	508.8	527.2	529.8
30°	285.9	288.5	304.3	330.5	375.1	424.9	480.0	527.2	561.3	579.7	584.9
32.5°	288.5	291.1	312.1	343.6	393.4	451.1	514.1	574.4	621.6	642.6	650.5
35°	296.4	299.0	320.0	356.7	414.4	480.0	553.4	624.2	679.3	705.5	710.8
37.5°	304.3	306.9	327.9	369.8	435.4	511.5	595.4	676.7	739.6	771.1	781.6
40°	309.5	312.1	335.7	385.6	459.0	545.6	642.6	731.8	802.6	841.9	849.8
42.5°	317.4	320.0	346.2	398.7	480.0	579.7	692.4	792.1	868.2	912.8	923.2
45°	325.2	327.9	356.7	414.4	503.6	616.4	742.3	862.9	949.5	1001.9	1012.4
47.5°	333.1	335.7	367.2	430.1	527.2	653.1	794.7	925.9	1030.8	1080.6	1101.6
50°	335.7	341.0	372.4	440.6	542.9	684.6	839.3	988.8	1099.0	1164.5	1169.8
52.5°	338.3	343.6	377.7	448.5	556.0	708.2	876.0	1041.3	1169.8	1248.5	1243.2
55°	341.0	341.0	377.7	448.5	561.3	723.9	902.3	1075.4	1217.0	1280.0	1316.7
57.5°	330.5	333.1	372.4	443.3	558.7	721.3	902.3	1088.5	1235.4	1303.6	1329.8
60°	317.4	322.6	359.3	430.1	548.2	713.4	897.0	1083.2	1243.2	1316.7	1308.8
62.5°	299.0	309.5	341.0	411.8	532.4	695.1	889.1	1070.1	1224.9	1300.9	1293.1
65°	278.0	288.5	317.4	393.4	498.3	650.5	847.2	1043.9	1175.0	1261.6	1245.9
67.5°	257.0	264.9	293.8	362.0	459.0	603.3	792.1	986.2	1104.2	1198.6	1190.8
70°	233.4	236.1	264.9	325.2	419.7	556.0	739.6	904.9	1041.3	1112.1	1127.8
72.5°	204.6	204.6	233.4	285.9	372.4	493.1	668.8	813.1	941.6	1001.9	1025.5
75°	167.9	170.5	194.1	241.3	312.1	422.3	569.2	716.0	823.6	886.5	894.4
77.5°	131.1	133.8	152.1	191.5	251.8	341.0	469.5	584.9	687.2	742.3	726.5
80°	94.4	97.0	110.2	139.0	186.2	254.4	362.0	464.2	537.7	582.3	561.3
82.5°	57.7	60.3	68.2	86.6	118.0	165.2	246.5	322.6	380.3	417.0	409.2
85°	28.9	28.9	34.1	39.3	49.8	73.4	118.0	162.6	207.2	233.4	225.6
87.5°	5.2	7.9	7.9	7.9	7.9	5.2	7.9	7.9	7.9	13.1	5.2
90°	2.6	2.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.6	2.6
92.5°	2.6	2.6	2.6	3.6	4.1	3.6	4.1	3.1	3.1	2.6	2.6
95°	3.1	3.1	3.6	4.6	5.7	6.2	6.2	3.6	3.6	3.1	3.1
97.5°	4.1	4.6	4.6	5.7	9.3	17.0	10.3	5.1	5.1	4.6	4.1
100°	6.7	7.2	7.2	12.9	27.2	36.5	26.2	13.4	9.8	7.2	7.2
102.5°	21.6	22.6	27.8	41.6	61.7	56.0	47.3	44.7	30.8	24.7	23.6
105°	55.0	54.5	58.6	69.4	86.4	84.8	78.1	70.9	61.2	56.5	56.5
107.5°	72.5	72.5	76.1	85.3	98.2	114.6	116.2	92.0	80.7	75.6	75.0
110°	81.7	81.7	84.8	92.5	109.5	132.6	131.6	113.6	99.7	93.0	92.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	83.8	84.3	88.4	100.2	118.7	129.0	124.4	117.2	111.0	105.9	104.9
115°	86.9	86.9	91.5	102.8	113.1	117.2	112.1	106.4	102.3	100.2	101.3
117.5°	85.8	87.4	88.4	94.6	101.3	104.4	101.8	94.1	91.0	90.0	88.4
120°	79.7	79.7	80.7	83.8	87.4	88.9	87.9	82.8	80.2	79.7	78.6
122.5°	70.9	71.5	70.9	72.5	75.0	76.6	75.6	71.5	70.4	70.4	69.4
125°	62.2	62.2	61.7	62.7	64.3	63.7	64.3	62.2	61.7	61.7	61.2
127.5°	56.0	55.5	54.5	55.0	55.5	55.5	56.0	54.0	54.5	55.0	54.5
130°	49.9	49.9	48.8	48.8	48.8	47.8	48.8	47.8	48.3	48.8	49.3
132.5°	44.2	44.2	42.7	42.2	42.2	42.2	42.7	42.2	43.2	44.2	44.2
135°	39.6	39.6	38.0	38.6	38.6	38.0	38.6	38.0	39.1	39.6	39.6
137.5°	36.0	36.0	35.0	35.0	35.0	34.4	35.0	35.0	35.5	36.5	37.0
140°	32.9	32.9	32.4	32.4	31.9	32.4	32.4	32.4	32.9	33.4	33.4
142.5°	31.4	30.8	30.3	29.8	30.3	30.3	30.3	29.8	30.3	31.4	31.4
145°	28.8	28.8	28.3	28.3	28.3	28.8	28.3	28.3	28.8	28.8	29.3
147.5°	27.2	27.2	26.7	27.2	27.2	27.2	27.2	26.7	27.2	27.2	27.8
150°	26.7	26.2	25.7	26.2	26.2	25.7	25.7	25.7	25.7	26.2	26.2
152.5°	25.2	25.2	24.7	25.2	24.7	24.7	24.7	24.7	24.7	25.2	25.7
155°	24.2	24.2	23.6	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
157.5°	23.1	23.6	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.6	23.6
160°	22.6	22.6	22.6	22.6	22.1	22.1	22.1	22.6	22.6	22.6	23.1
162.5°	22.1	22.1	22.1	22.1	21.6	21.6	21.6	21.6	22.1	22.1	22.6
165°	22.1	21.6	21.6	21.6	21.1	21.1	21.1	21.1	21.6	22.1	21.6
167.5°	21.1	21.1	21.1	21.1	21.1	20.6	20.6	21.1	21.1	21.1	21.6
170°	21.1	21.1	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	21.1
172.5°	21.1	21.1	21.1	21.1	20.6	20.6	20.6	20.6	20.6	21.1	21.1
175°	21.1	21.1	21.1	21.1	20.6	20.6	20.6	21.1	21.1	21.1	20.6
177.5°	21.1	21.1	21.1	21.1	20.6	21.1	21.1	21.1	21.1	21.1	21.1
180°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1

(END OF REPORT)