

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: P833181

Luminaire Tested: **TTN-D1-735-U-RW-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833181
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-UPL3
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: 3861.7 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B2 - U4 - G2

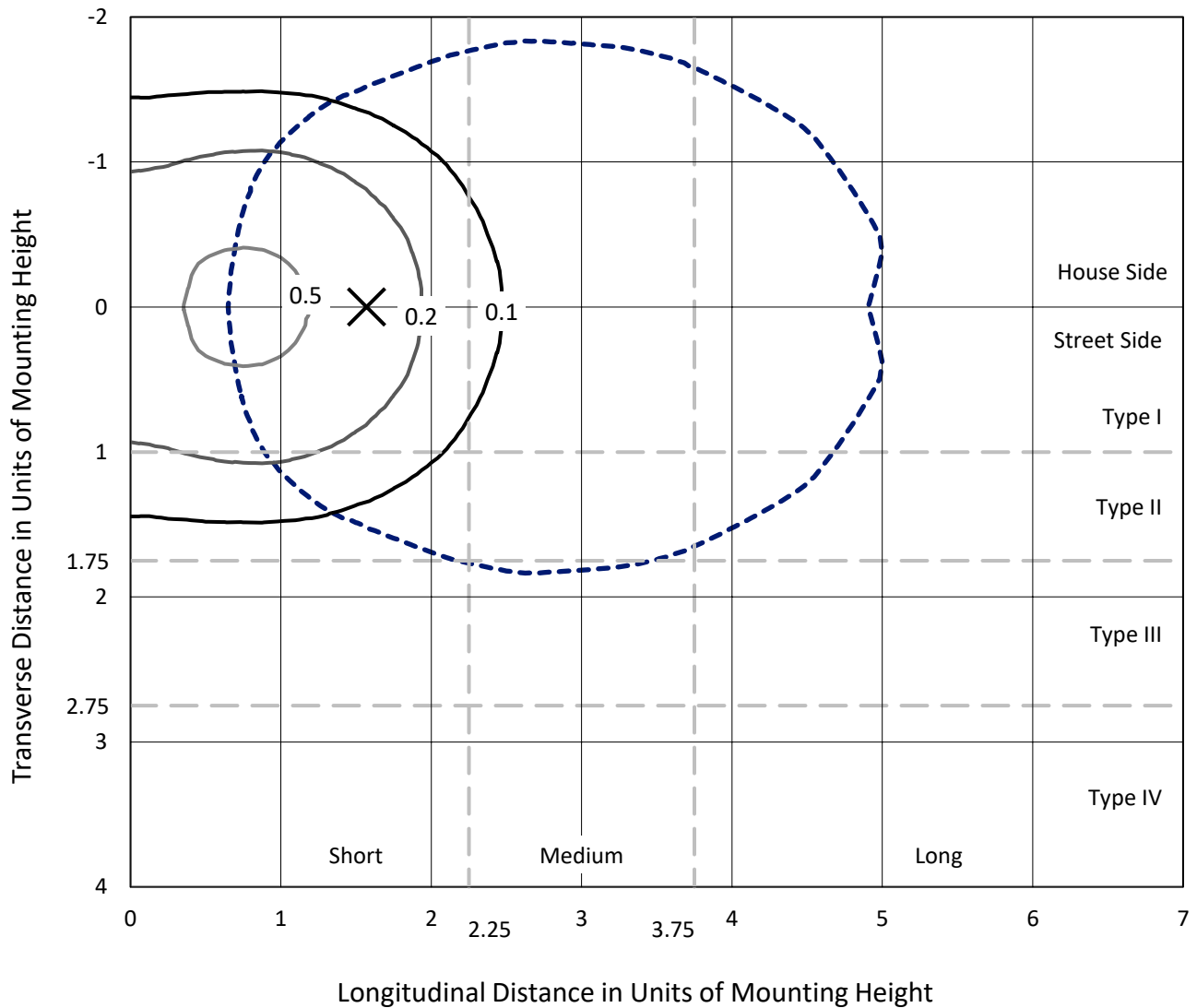
Input Watts (W): 33.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

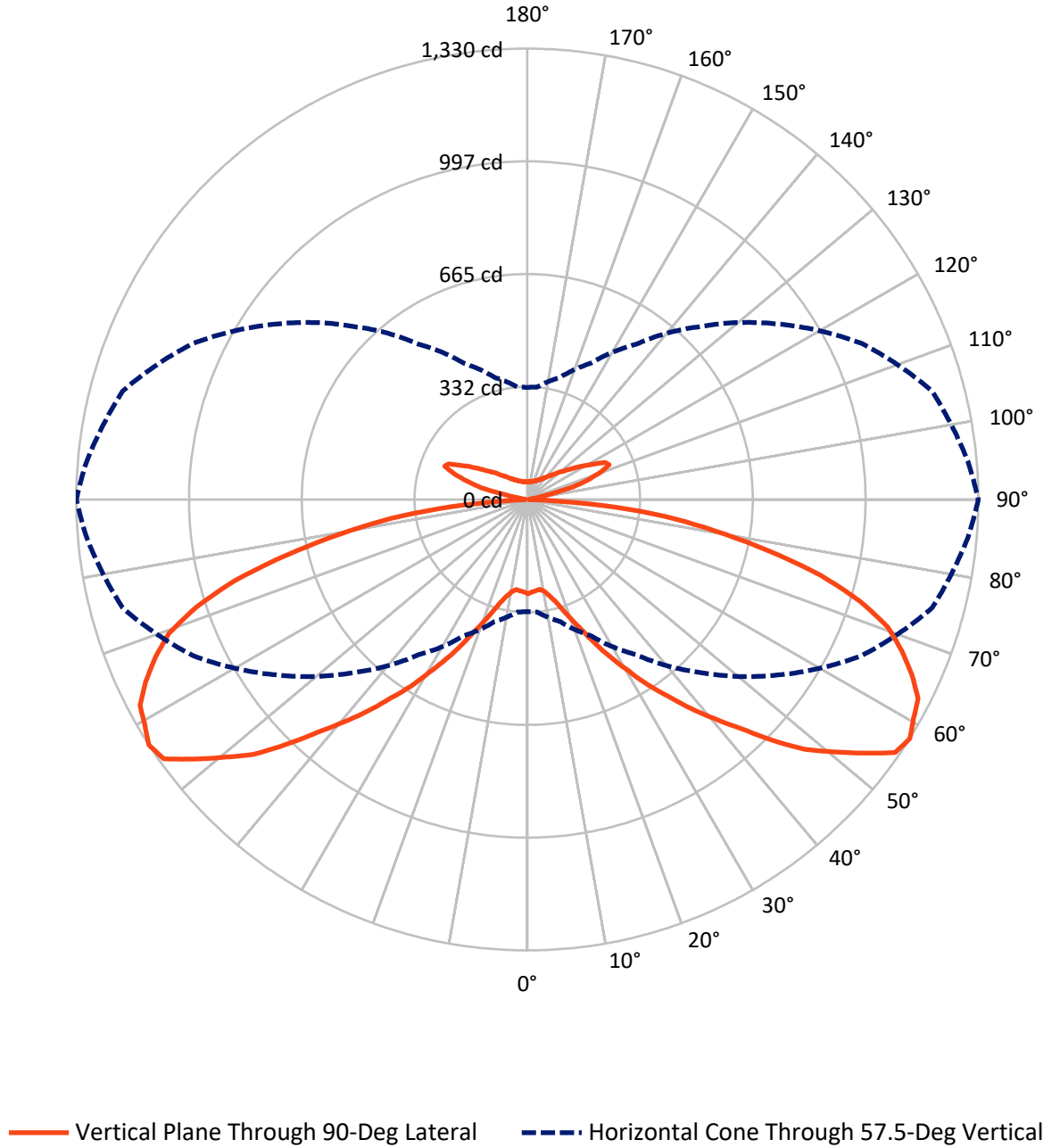
✕ Max cd
 - - - 1/2 Max cd



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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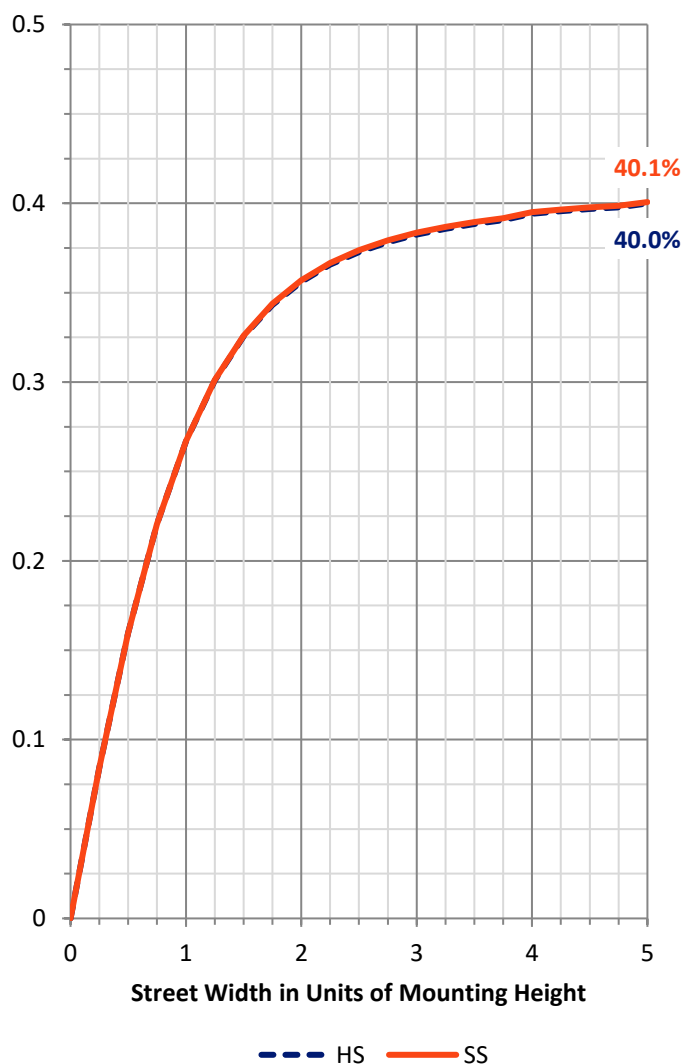
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1554.5	376.3	1930.8
	% Fixture	40.3	9.7	50.0
Street Side	Lumens	1554.5	376.3	1930.8
	% Fixture	40.3	9.7	50.0
Total	Lumens	3109.0	752.7	3861.7
	% Fixture	80.5	19.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.1	0.7
10°-20°	83.4	2.2
20°-30°	173.9	4.5
30°-40°	311.9	8.1
40°-50°	498.3	12.9
50°-60°	682.2	17.7
60°-70°	703.7	18.2
70°-80°	500.4	13.0
80°-90°	129.1	3.3
90°-100°	16.8	0.4
100°-110°	170.7	4.4
110°-120°	249.6	6.5
120°-130°	144.9	3.8
130°-140°	76.7	2.0
140°-150°	45.6	1.2
150°-160°	28.1	0.7
160°-170°	15.3	0.4
170°-180°	5.0	0.1
0°-90°	3109.0	80.5
0°-180°	3861.7	100.0

Coefficient of Utilization



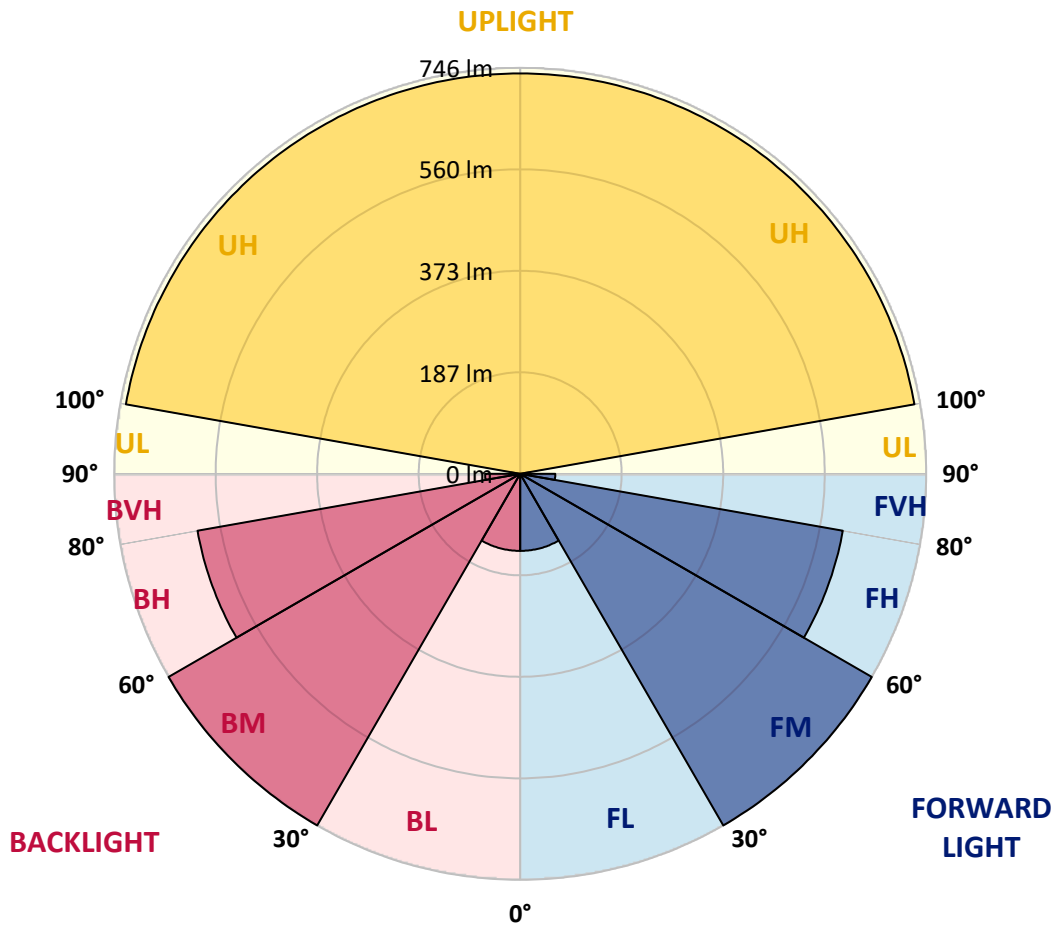
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	141.7	3.7			
FM (30°-60°)	746.2	19.3			
FH (60°-80°)	602.1	15.6			G0/660
FVH (80°-90°)	64.6	1.7			G1/100
BL (0°-30°)	141.7	3.7	B1/500		
BM (30°-60°)	746.2	19.3	B1/1000		
BH (60°-80°)	602.1	15.6	B2/1000		G2/1000
BVH (80°-90°)	64.6	1.7			G1/100
UL (90°-100°)	16.8	0.4		U2/50	
UH (100°-180°)	735.8	19.1		U4/1000	

BUG Rating: B2-U4-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°	6.4	6.4	7.7	7.7	7.7	7.7	7.7	7.7	7.7	6.4	6.4
92.5°	6.4	6.4	6.4	9.0	10.3	9.0	10.3	7.7	7.7	6.4	6.4
95°	7.7	7.7	9.0	11.6	14.2	15.5	15.5	9.0	9.0	7.7	7.7
97.5°	10.3	11.6	11.6	14.2	23.2	42.5	25.8	12.9	12.9	11.6	10.3
100°	16.7	18.0	18.0	32.2	68.2	91.4	65.7	33.5	24.5	18.0	18.0
102.5°	54.1	56.7	69.5	104.3	154.5	140.4	118.5	112.0	77.3	61.8	59.2
105°	137.8	136.5	146.8	173.8	216.3	212.5	195.7	177.7	153.2	141.6	141.6
107.5°	181.6	181.6	190.6	213.8	245.9	287.1	291.0	230.5	202.2	189.3	188.0
110°	204.7	204.7	212.5	231.8	274.3	332.2	329.6	284.6	249.8	233.1	230.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	209.9	211.2	221.5	251.1	297.5	323.2	311.6	293.6	278.1	265.3	262.7
115°	217.6	217.6	229.2	257.5	283.3	293.6	280.7	266.5	256.2	251.1	253.7
117.5°	215.0	218.9	221.5	236.9	253.7	261.4	255.0	235.6	227.9	225.3	221.5
120°	199.6	199.6	202.2	209.9	218.9	222.8	220.2	207.3	200.9	199.6	197.0
122.5°	177.7	179.0	177.7	181.6	188.0	191.9	189.3	179.0	176.4	176.4	173.8
125°	155.8	155.8	154.5	157.1	161.0	159.7	161.0	155.8	154.5	154.5	153.2
127.5°	140.4	139.1	136.5	137.8	139.1	139.1	140.4	135.2	136.5	137.8	136.5
130°	124.9	124.9	122.3	122.3	122.3	119.8	122.3	119.8	121.0	122.3	123.6
132.5°	110.7	110.7	106.9	105.6	105.6	105.6	106.9	105.6	108.2	110.7	110.7
135°	99.2	99.2	95.3	96.6	96.6	95.3	96.6	95.3	97.9	99.2	99.2
137.5°	90.1	90.1	87.6	87.6	87.6	86.3	87.6	87.6	88.8	91.4	92.7
140°	82.4	82.4	81.1	81.1	79.8	81.1	81.1	81.1	82.4	83.7	83.7
142.5°	78.5	77.3	76.0	74.7	76.0	76.0	76.0	74.7	76.0	78.5	78.5
145°	72.1	72.1	70.8	70.8	70.8	72.1	70.8	70.8	72.1	72.1	73.4
147.5°	68.2	68.2	67.0	68.2	68.2	68.2	68.2	67.0	68.2	68.2	69.5
150°	67.0	65.7	64.4	65.7	65.7	64.4	64.4	64.4	64.4	65.7	65.7
152.5°	63.1	63.1	61.8	63.1	61.8	61.8	61.8	61.8	61.8	63.1	64.4
155°	60.5	60.5	59.2	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
157.5°	57.9	59.2	57.9	57.9	57.9	57.9	57.9	57.9	57.9	59.2	59.2
160°	56.7	56.7	56.7	56.7	55.4	55.4	55.4	56.7	56.7	56.7	57.9
162.5°	55.4	55.4	55.4	55.4	54.1	54.1	54.1	54.1	55.4	55.4	56.7
165°	55.4	54.1	54.1	54.1	52.8	52.8	52.8	52.8	54.1	55.4	54.1
167.5°	52.8	52.8	52.8	52.8	52.8	51.5	51.5	52.8	52.8	52.8	54.1
170°	52.8	52.8	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	52.8
172.5°	52.8	52.8	52.8	52.8	51.5	51.5	51.5	51.5	51.5	52.8	52.8
175°	52.8	52.8	52.8	52.8	51.5	51.5	51.5	52.8	52.8	52.8	51.5
177.5°	52.8	52.8	52.8	52.8	51.5	52.8	52.8	52.8	52.8	52.8	52.8
180°	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8

(END OF REPORT)