

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: P588445

Luminaire Tested: **GAT-CA6-LED-50-722-U-55-5-6-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GAT-CA6-LED-50-722-U-55-5-6-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4446 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U3 - G2

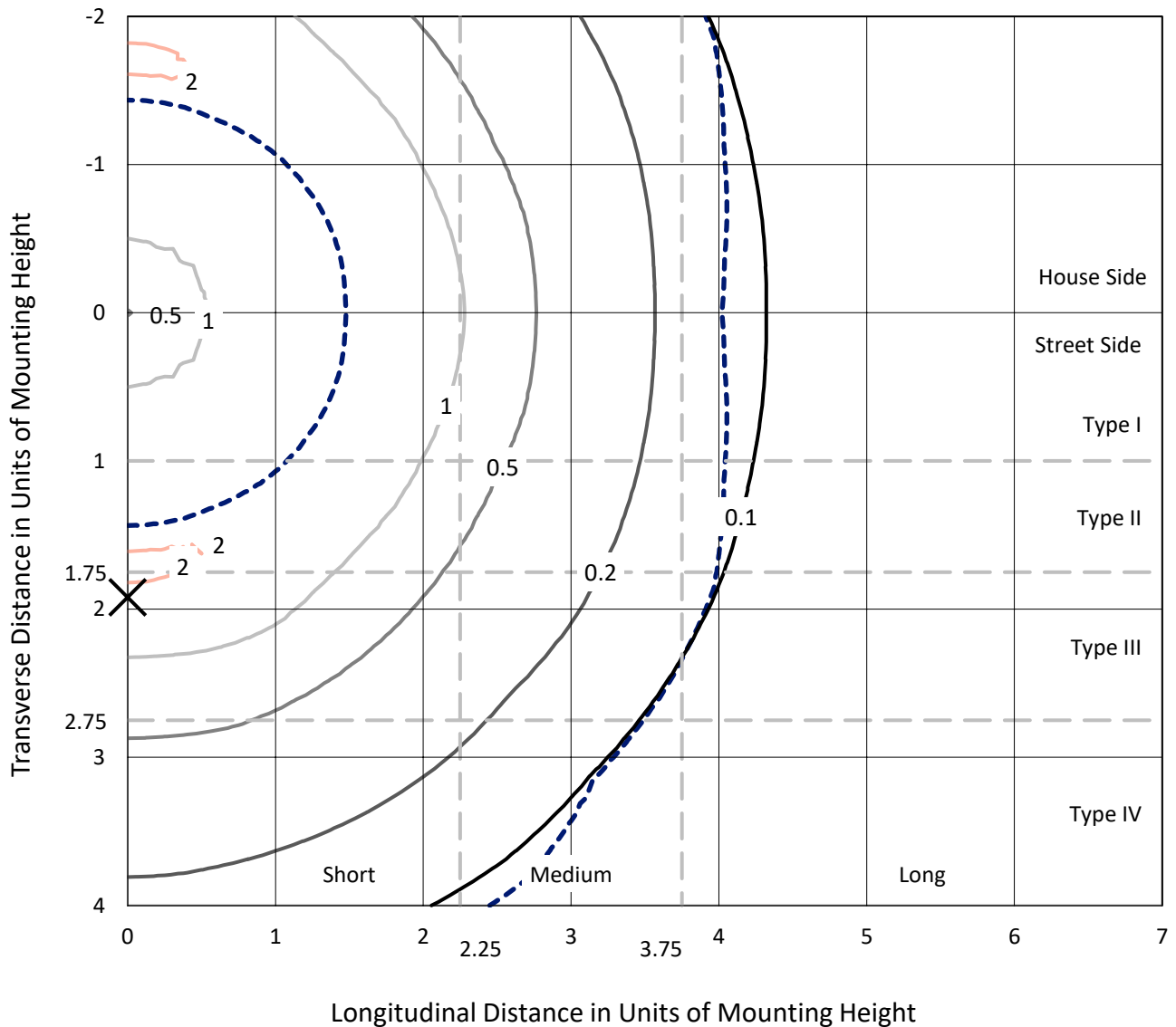
Input Watts (W): 54
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

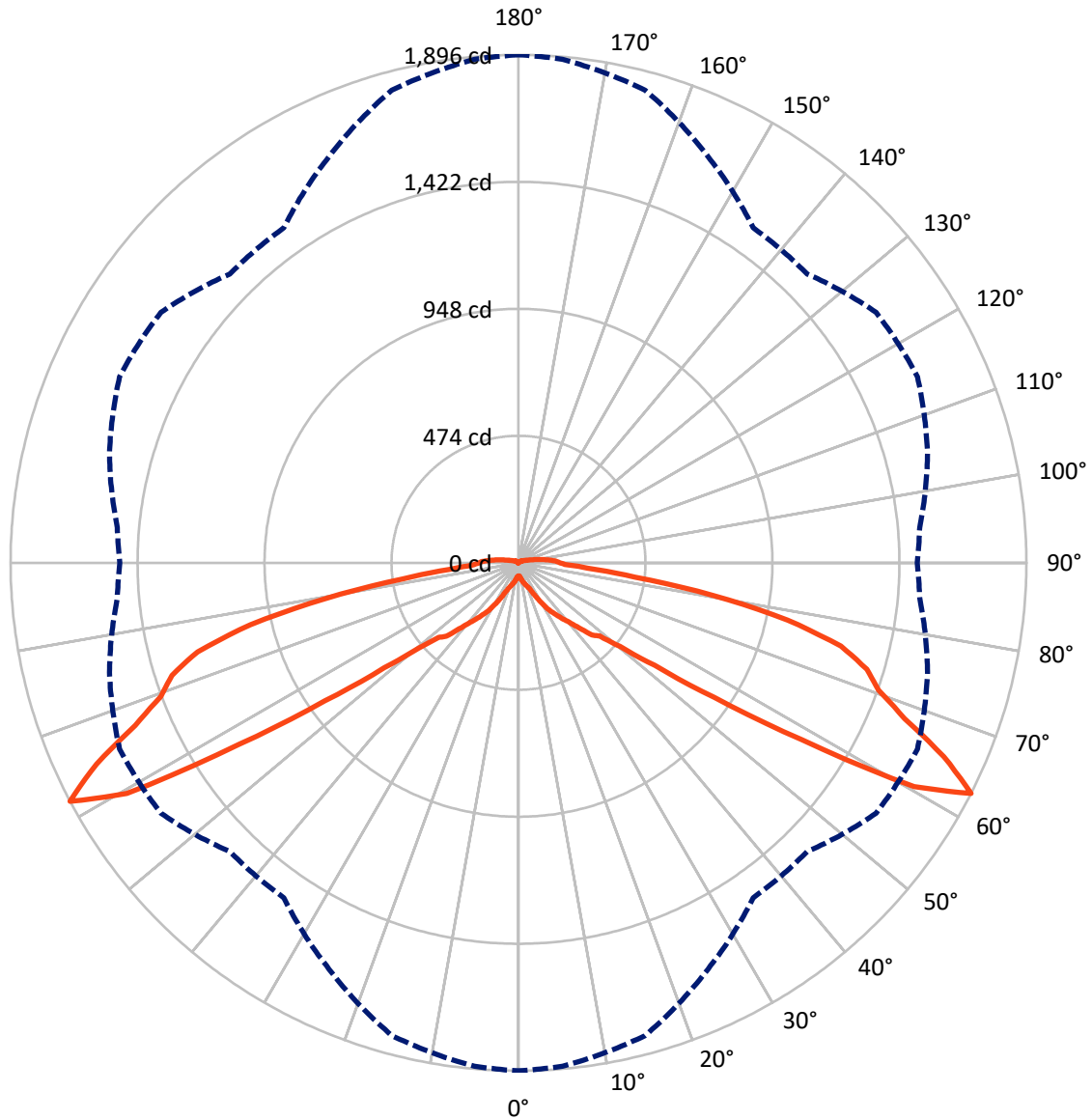
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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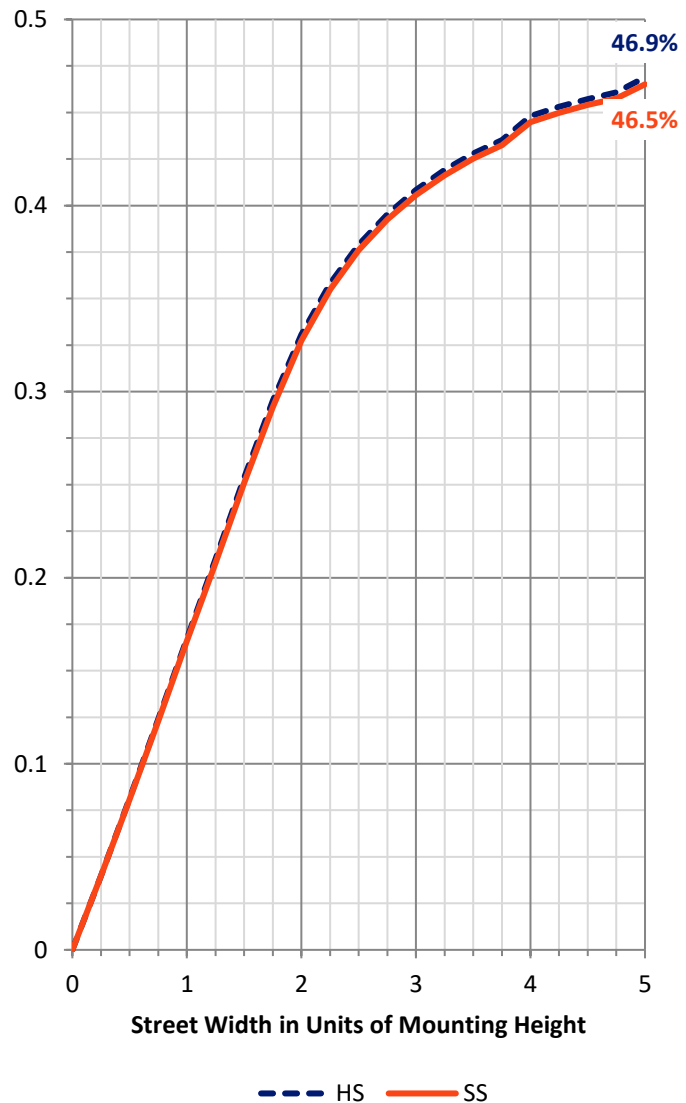
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2137.6	85.4	2223.0
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	2137.6	85.4	2223.0
	% Fixture	48.1	1.9	50.0
Total	Lumens	4275.2	170.8	4446.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.1
10°-20°	22.4	0.5
20°-30°	59.1	1.3
30°-40°	134.5	3.0
40°-50°	272.0	6.1
50°-60°	805.2	18.1
60°-70°	1512.7	34.0
70°-80°	1124.5	25.3
80°-90°	339.4	7.6
90°-100°	110.1	2.5
100°-110°	38.6	0.9
110°-120°	14.9	0.3
120°-130°	5.9	0.1
130°-140°	1.2	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	4275.2	96.2
0°-180°	4446.0	100.0

Coefficient of Utilization

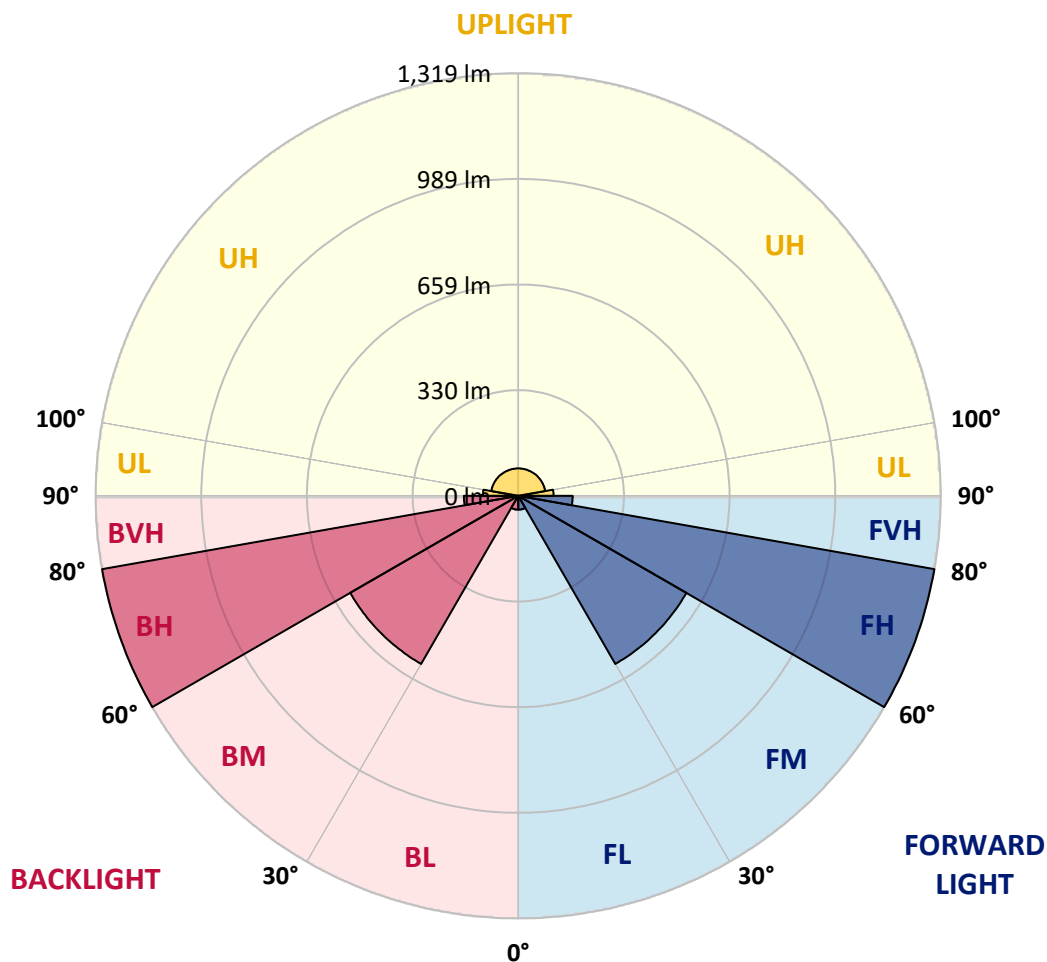


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	43.4	1.0			
FM (30°-60°)	605.9	13.6			
FH (60°-80°)	1318.6	29.7			G1/1800
FVH (80°-90°)	169.7	3.8			G2/225
BL (0°-30°)	43.4	1.0	B0/110		
BM (30°-60°)	605.9	13.6	B1/1000		
BH (60°-80°)	1318.6	29.7	B3/2500		G1/1800
BVH (80°-90°)	169.7	3.8			G2/225
UL (90°-100°)	110.1	2.5		U3/500	
UH (100°-180°)	85.4	1.9		U3/500	

BUG Rating: B3-U3-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
2.5°	49.7	49.7	49.7	48.9	48.0	48.0	48.0	48.0	47.2	47.2	47.2
5°	52.3	52.3	51.4	50.6	50.6	49.7	50.6	49.7	49.7	49.7	50.6
7.5°	58.2	58.2	57.3	57.3	57.3	56.5	56.5	56.5	56.5	55.6	56.5
10°	64.9	64.9	64.9	64.9	64.9	64.1	64.1	63.2	63.2	63.2	63.2
12.5°	72.5	71.7	71.7	72.5	71.7	70.8	70.8	70.8	70.0	70.0	70.0
15°	79.2	79.2	78.4	78.4	78.4	77.6	77.6	76.7	76.7	75.9	75.9
17.5°	86.0	86.0	85.1	84.3	84.3	84.3	83.5	83.5	82.6	82.6	82.6
20°	94.4	93.6	92.7	91.9	91.0	91.0	91.0	91.0	90.2	89.4	89.4
22.5°	103.7	102.8	102.0	101.2	101.2	100.3	100.3	99.5	99.5	98.6	97.8
25°	123.1	123.1	119.7	118.9	118.9	119.7	118.9	118.0	116.3	113.8	113.8
27.5°	149.2	150.1	150.9	155.1	154.3	148.4	145.0	143.3	142.5	142.5	143.3
30°	178.7	179.6	182.1	186.3	183.8	176.2	167.8	164.4	166.9	170.3	171.1
32.5°	209.9	209.9	204.8	198.9	193.0	188.0	185.5	183.8	182.9	180.4	180.4
35°	234.3	230.1	214.1	194.7	188.8	192.2	202.3	205.7	193.0	181.2	179.6
37.5°	262.2	261.3	248.7	234.3	223.4	221.7	232.7	236.0	222.5	215.0	214.1
40°	291.7	293.4	295.9	290.0	273.1	268.1	262.2	258.0	258.0	258.8	257.1
42.5°	331.3	333.8	333.8	334.7	321.2	309.4	297.6	290.8	290.0	296.7	299.3
45°	384.4	384.4	378.5	366.7	360.8	352.4	344.8	338.0	334.7	335.5	338.0
47.5°	408.0	409.7	404.6	387.8	383.6	375.1	364.2	361.6	363.3	365.9	366.7
50°	490.6	486.4	451.8	416.4	403.8	412.2	428.2	432.4	416.4	400.4	396.2
52.5°	635.6	634.8	607.8	581.7	564.0	558.9	580.8	582.5	554.7	542.9	541.2
55°	886.8	877.5	897.8	910.4	873.3	832.0	816.8	795.8	797.5	821.1	821.9
57.5°	1243.4	1248.5	1271.2	1238.3	1181.9	1151.5	1130.4	1090.8	1091.7	1112.7	1114.4
60°	1696.1	1695.2	1622.7	1496.3	1409.5	1415.4	1473.5	1482.0	1391.8	1333.6	1326.9
62.5°	1895.9	1886.6	1826.7	1673.3	1526.6	1524.1	1629.5	1643.0	1580.6	1503.0	1487.9
65°	1745.0	1737.4	1762.7	1710.4	1517.4	1467.6	1499.7	1496.3	1535.9	1571.3	1575.5
67.5°	1553.6	1555.3	1616.0	1600.0	1465.9	1381.6	1341.2	1336.1	1410.3	1492.9	1503.9
70°	1425.5	1425.5	1468.5	1403.6	1339.5	1284.7	1242.6	1216.4	1264.5	1278.0	1277.1
72.5°	1359.7	1353.8	1323.5	1261.1	1212.2	1164.2	1176.8	1157.4	1134.7	1099.2	1095.9
75°	1242.6	1235.8	1193.7	1164.2	1128.8	1068.9	1079.9	1060.5	1022.5	990.5	985.4
77.5°	1026.8	1026.8	999.8	977.9	967.7	916.3	911.3	902.0	864.1	846.4	839.6
80°	735.1	733.4	722.4	714.8	727.5	697.1	683.7	683.7	668.5	652.5	644.9
82.5°	437.5	431.6	431.6	434.1	426.5	407.2	410.5	429.9	428.2	419.0	412.2
85°	258.8	255.4	252.9	249.5	242.8	229.3	229.3	231.0	232.7	233.5	230.1
87.5°	172.8	172.0	172.0	172.0	164.4	155.1	159.3	161.9	160.2	159.3	158.5
90°	150.9	151.7	150.9	147.5	140.8	132.3	134.0	137.4	135.7	135.7	134.9
92.5°	135.7	135.7	134.0	130.7	123.9	116.3	117.2	118.9	118.0	117.2	116.3
95°	111.3	111.3	109.6	107.1	101.2	94.4	95.3	96.9	95.3	95.3	94.4
97.5°	86.8	86.8	86.0	84.3	79.2	74.2	75.0	75.9	75.0	75.0	74.2
100°	65.8	65.8	64.9	62.4	59.9	55.6	56.5	58.2	57.3	57.3	56.5
102.5°	48.9	48.9	48.0	47.2	43.8	41.3	42.1	42.1	42.1	41.3	41.3
105°	37.9	37.9	37.9	36.2	34.6	32.0	32.0	32.0	32.0	31.2	31.2
107.5°	30.3	29.5	29.5	28.7	27.0	25.3	25.3	25.3	25.3	25.3	25.3
110°	24.4	23.6	22.8	22.8	21.1	20.2	19.4	20.2	20.2	20.2	20.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	21.1	20.2	18.5	18.5	17.7	16.0	16.0	16.0	17.7	16.9	16.9
115°	18.5	17.7	15.2	15.2	14.3	13.5	13.5	13.5	15.2	13.5	13.5
117.5°	16.0	15.2	12.6	12.6	11.8	11.0	11.0	11.0	12.6	11.0	11.0
120°	11.8	11.8	10.1	10.1	10.1	9.3	9.3	9.3	10.1	9.3	9.3
122.5°	9.3	9.3	8.4	8.4	8.4	7.6	7.6	7.6	7.6	6.7	6.7
125°	9.3	11.0	6.7	6.7	5.9	5.9	5.9	5.1	5.9	5.1	5.1
127.5°	10.1	9.3	5.1	5.1	5.1	4.2	4.2	4.2	4.2	4.2	4.2
130°	3.4	5.1	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5
132.5°	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7	1.7
135°	1.7	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8
137.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
170°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
172.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
175°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
177.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

(END OF REPORT)