

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: P594015

Luminaire Tested: **ISC-PA1A-830-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISC-PA1A-830-U-T3-HSS
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2525 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

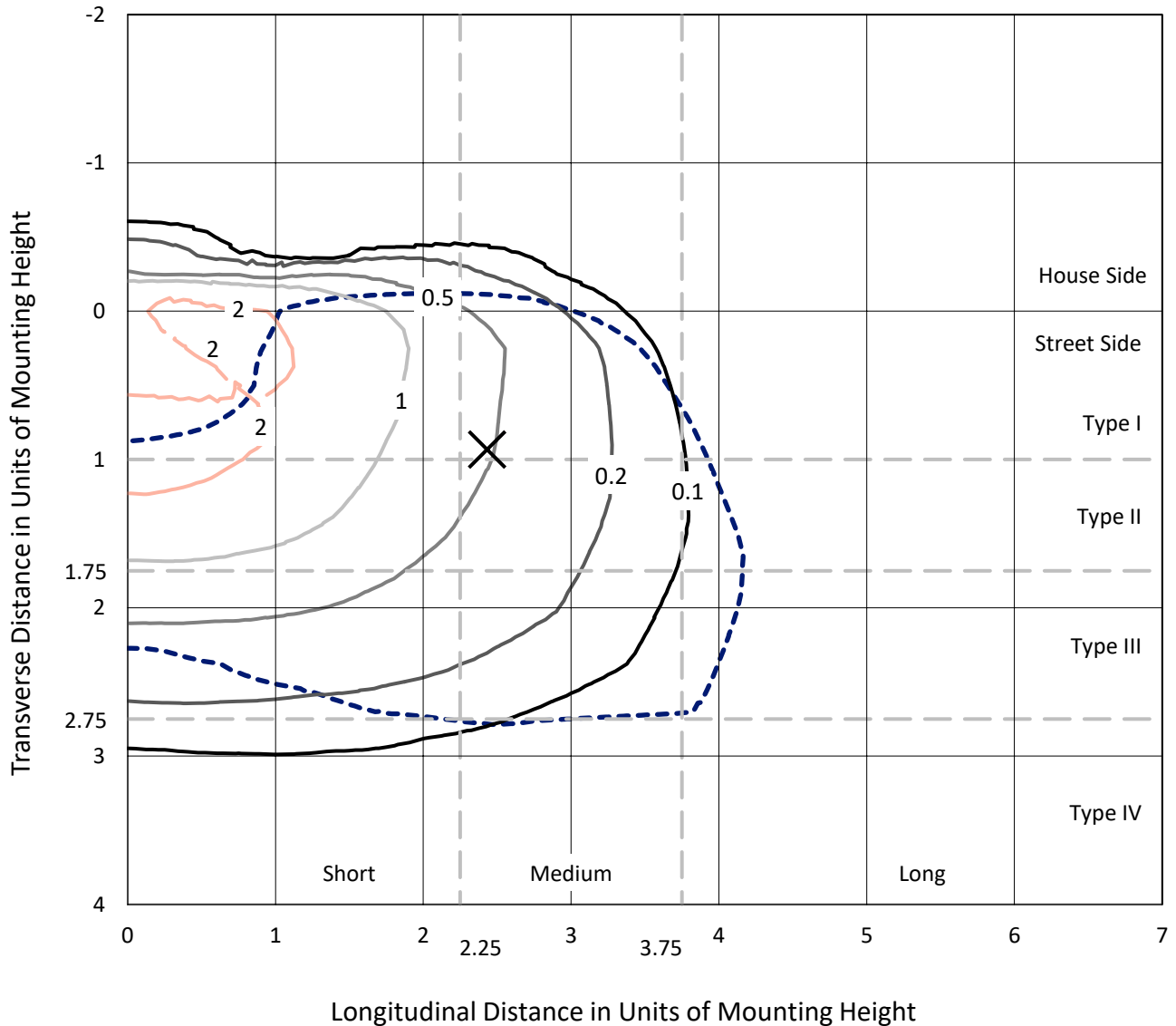
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

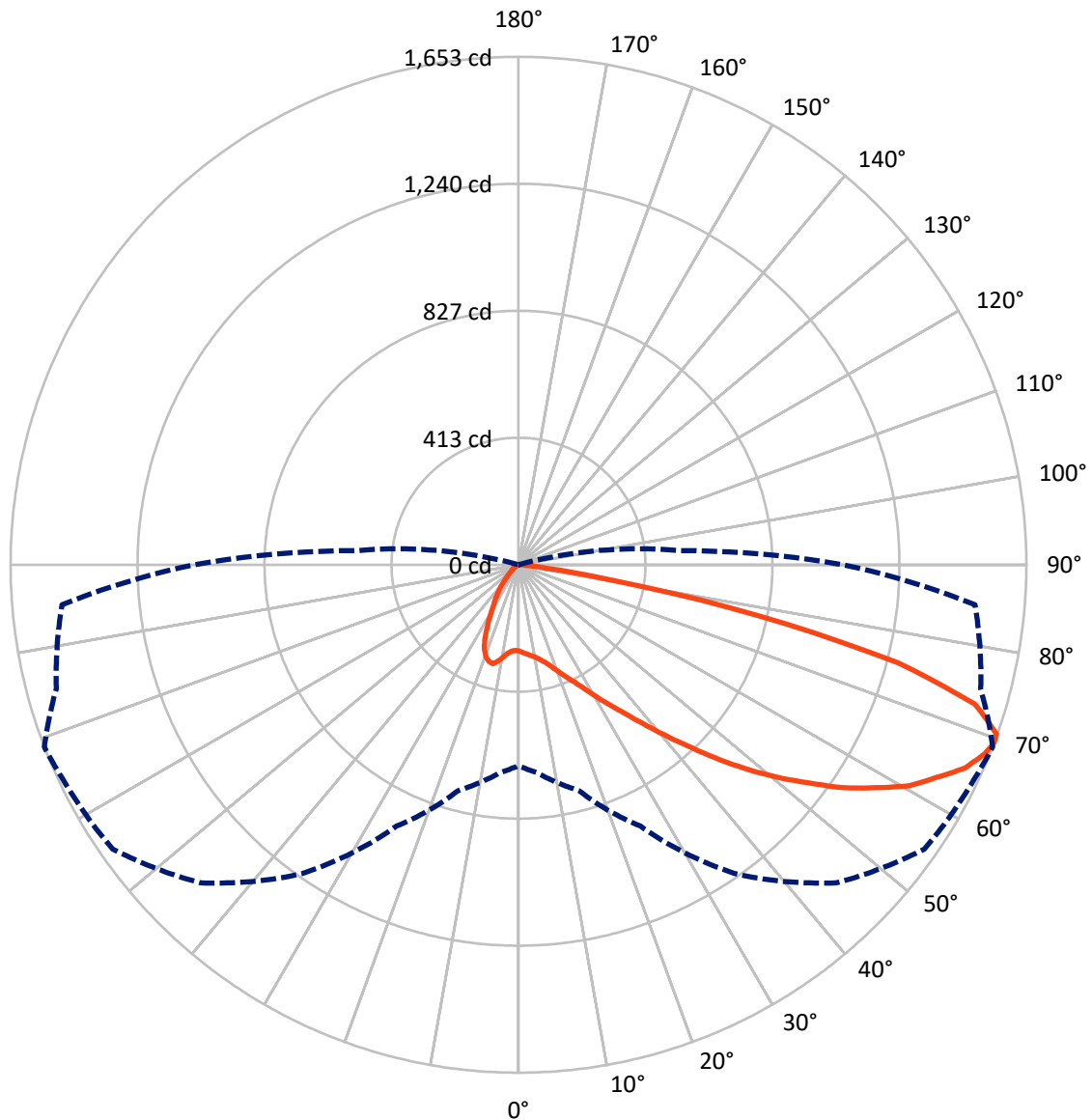
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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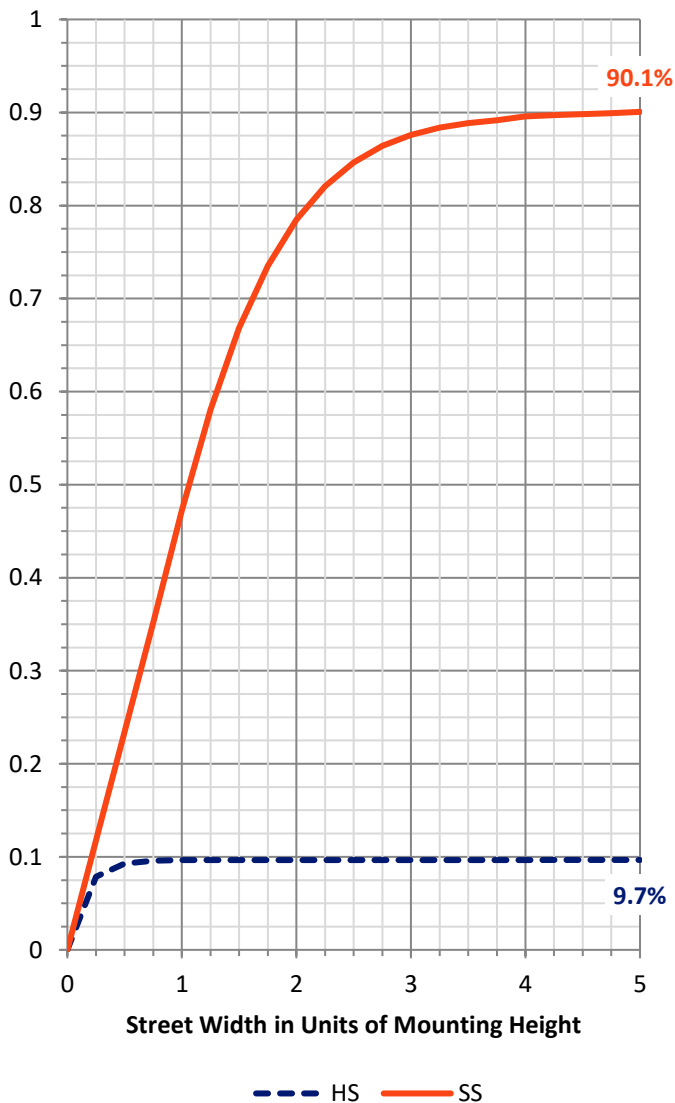
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	246.0	0.0	246.0
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	2279.0	0.0	2279.0
	% Fixture	90.3	0.0	90.3
Total	Lumens	2525.0	0.0	2525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	1.1
10°-20°	70.9	2.8
20°-30°	118.0	4.7
30°-40°	212.4	8.4
40°-50°	385.1	15.3
50°-60°	601.8	23.8
60°-70°	696.3	27.6
70°-80°	389.4	15.4
80°-90°	24.3	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2525.0	100.0
0°-180°	2525.0	100.0

Coefficient of Utilization

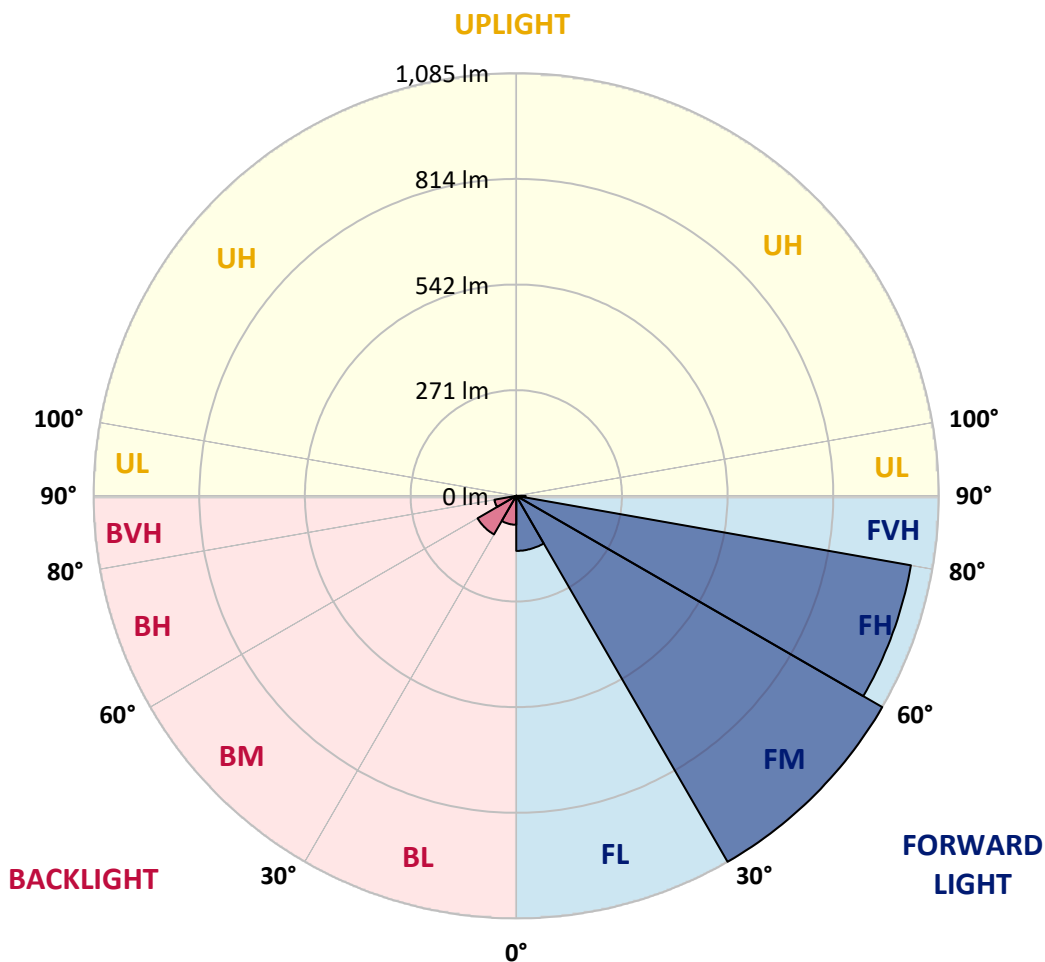


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	141.3	5.6			
FM (30°-60°)	1084.8	43.0			
FH (60°-80°)	1028.8	40.7			G1/1800
FVH (80°-90°)	24.1	1.0			G1/100
BL (0°-30°)	74.4	2.9	B0/110		
BM (30°-60°)	114.5	4.5	B0/220		
BH (60°-80°)	57.0	2.3	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9
2.5°	291.0	291.0	291.0	289.3	290.1	289.3	288.4	285.9	286.8	285.9	283.4
5°	280.9	281.7	284.2	285.9	290.1	291.8	292.6	292.6	291.8	290.1	288.4
7.5°	261.5	261.5	264.0	269.1	277.5	286.8	294.3	298.5	299.4	299.4	296.8
10°	256.5	256.5	259.8	263.2	271.6	282.5	294.3	304.4	306.1	307.8	306.9
12.5°	254.0	254.8	258.2	264.0	275.0	285.1	297.7	312.0	317.0	321.2	322.1
15°	257.3	257.3	260.7	266.6	279.2	293.5	309.5	325.4	330.5	336.4	340.6
17.5°	262.4	264.0	265.7	271.6	283.4	301.0	322.1	343.1	349.0	356.5	359.9
20°	270.8	270.8	272.5	277.5	290.1	311.1	340.6	365.8	370.8	375.9	380.1
22.5°	280.9	281.7	281.7	285.9	300.2	322.9	356.5	387.7	396.1	398.6	400.3
25°	311.1	309.5	303.6	301.0	312.0	336.4	375.9	413.7	423.0	425.5	422.1
27.5°	374.2	367.5	351.5	334.7	333.0	357.4	402.0	446.5	456.6	457.5	445.7
30°	453.3	454.1	428.0	391.9	367.5	380.1	430.5	487.7	497.8	493.6	475.1
32.5°	550.8	546.6	527.3	475.1	426.3	415.4	461.7	530.6	542.4	535.7	511.3
35°	634.0	636.6	613.0	566.8	505.4	470.1	499.5	578.5	592.8	581.1	550.8
37.5°	703.8	707.2	692.9	655.1	600.4	544.9	549.1	634.9	654.2	642.5	604.6
40°	781.2	783.7	777.8	736.6	687.9	634.0	615.5	699.6	725.7	709.7	670.2
42.5°	866.1	875.4	865.3	832.5	782.1	735.8	708.1	778.7	804.8	794.7	741.7
45°	982.2	983.0	971.3	938.5	886.3	848.5	814.8	862.8	896.4	883.8	821.6
47.5°	1068.0	1073.8	1067.1	1044.4	1002.4	977.1	930.9	955.3	990.6	974.6	904.0
50°	1133.6	1149.5	1143.6	1150.4	1129.3	1118.4	1047.8	1051.1	1085.6	1072.2	988.1
52.5°	1169.7	1189.9	1191.6	1226.1	1243.7	1270.6	1161.3	1156.3	1178.1	1166.3	1073.8
55°	1164.7	1169.7	1211.8	1274.8	1343.8	1405.2	1272.3	1251.3	1281.6	1248.8	1164.7
57.5°	1115.9	1128.5	1202.5	1280.7	1402.6	1491.8	1368.2	1344.6	1369.9	1326.1	1258.0
60°	1046.1	1064.6	1159.6	1271.5	1437.1	1543.9	1461.5	1438.0	1460.7	1407.7	1364.0
62.5°	983.0	991.4	1078.9	1232.8	1416.9	1541.4	1533.8	1512.0	1525.4	1469.9	1454.8
65°	893.1	896.4	983.0	1163.0	1372.4	1524.6	1573.4	1581.8	1596.1	1522.1	1519.5
67.5°	754.3	761.9	847.6	1041.1	1298.4	1491.8	1604.5	1621.3	1638.1	1549.8	1531.3
69°	654.2	678.6	761.0	938.5	1226.9	1464.0	1612.9	1639.8	1653.2	1557.4	1491.8
70°	572.7	593.7	688.7	859.4	1163.8	1432.9	1618.8	1637.3	1650.7	1541.4	1427.0
72.5°	287.6	314.5	444.8	627.3	925.0	1290.8	1588.5	1568.3	1554.0	1417.8	1154.6
75°	111.0	115.2	190.9	357.4	578.5	947.7	1356.4	1318.6	1276.5	1075.5	684.5
77.5°	61.4	60.5	83.3	158.1	246.4	463.3	917.4	856.9	798.9	577.7	277.5
80°	26.1	27.8	36.2	75.7	129.5	160.6	445.7	396.1	315.3	183.3	66.4
82.5°	16.0	16.8	25.2	46.3	90.0	61.4	144.6	123.6	90.8	49.6	16.0
85°	5.0	5.9	17.7	31.1	43.7	25.2	32.8	28.6	25.2	21.0	5.0
87.5°	0.8	0.8	6.7	16.8	11.8	4.2	3.4	5.9	9.3	10.1	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9
2.5°	282.5	280.9	279.2	278.3	278.3	276.7	275.8	275.0	275.0	274.1	274.1
5°	285.9	284.2	282.5	281.7	280.0	279.2	279.2	279.2	278.3	279.2	280.0
7.5°	294.3	291.8	291.0	290.1	290.1	287.6	283.4	272.5	261.5	258.2	254.8
10°	306.1	305.3	305.3	305.3	299.4	277.5	247.2	220.3	206.0	194.3	194.3
12.5°	322.9	322.9	322.1	319.5	289.3	236.3	189.2	148.8	125.3	111.8	113.5
15°	341.4	340.6	342.3	326.3	254.8	182.5	114.4	80.7	68.1	66.4	66.4
17.5°	360.8	362.4	360.8	308.6	209.4	112.7	68.1	61.4	59.7	59.7	59.7
20°	380.9	379.3	376.7	278.3	152.2	70.6	58.9	57.2	55.5	54.7	54.7
22.5°	401.1	399.4	382.6	239.7	95.0	58.0	55.5	52.1	49.6	48.8	48.8
25°	420.5	420.5	371.7	190.0	64.8	54.7	50.5	47.1	44.6	42.0	42.0
27.5°	444.8	446.5	354.0	132.9	54.7	50.5	45.4	40.4	37.0	35.3	35.3
30°	472.6	475.1	325.4	86.6	49.6	44.6	39.5	33.6	28.6	26.9	26.1
32.5°	505.4	507.9	292.6	57.2	44.6	38.7	32.8	25.2	20.2	19.3	18.5
35°	547.4	541.5	253.1	45.4	38.7	32.8	25.2	17.7	14.3	13.5	13.5
37.5°	599.6	587.0	207.7	39.5	32.8	26.1	18.5	11.8	9.3	9.3	8.4
40°	659.3	624.0	160.6	35.3	27.8	20.2	11.8	7.6	5.9	5.9	5.9
42.5°	724.9	655.1	114.4	31.1	22.7	14.3	7.6	4.2	3.4	3.4	3.4
45°	800.6	683.7	78.2	26.9	19.3	10.1	4.2	1.7	1.7	1.7	1.7
47.5°	876.2	702.2	52.1	23.5	14.3	5.9	2.5	0.8	0.8	0.8	0.8
50°	952.8	716.5	40.4	20.2	10.1	3.4	0.8	0.0	0.0	0.0	0.0
52.5°	1020.9	726.6	32.8	16.8	6.7	2.5	0.8	0.0	0.0	0.0	0.0
55°	1079.7	727.4	28.6	13.5	5.0	1.7	0.0	0.0	0.0	0.0	0.0
57.5°	1139.4	720.7	24.4	10.1	3.4	0.8	0.0	0.0	0.0	0.0	0.0
60°	1175.6	703.0	19.3	7.6	2.5	0.8	0.0	0.0	0.0	0.0	0.0
62.5°	1197.5	673.6	15.1	5.0	1.7	0.8	0.0	0.0	0.0	0.0	0.0
65°	1184.8	636.6	10.9	3.4	1.7	0.8	0.0	0.0	0.0	0.0	0.0
67.5°	1126.0	579.4	7.6	2.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0
69°	1056.2	527.3	6.7	1.7	0.8	0.8	0.0	0.0	0.0	0.0	0.0
70°	994.8	486.9	5.9	1.7	0.8	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	740.8	313.7	5.0	1.7	0.8	0.8	0.0	0.0	0.0	0.0	0.0
75°	416.3	105.1	3.4	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	156.4	26.9	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	34.5	6.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)