

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: P594040

Luminaire Tested: **ISC-PA1B-727-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISC-PA1B-727-U-T2U-HSS
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3222 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

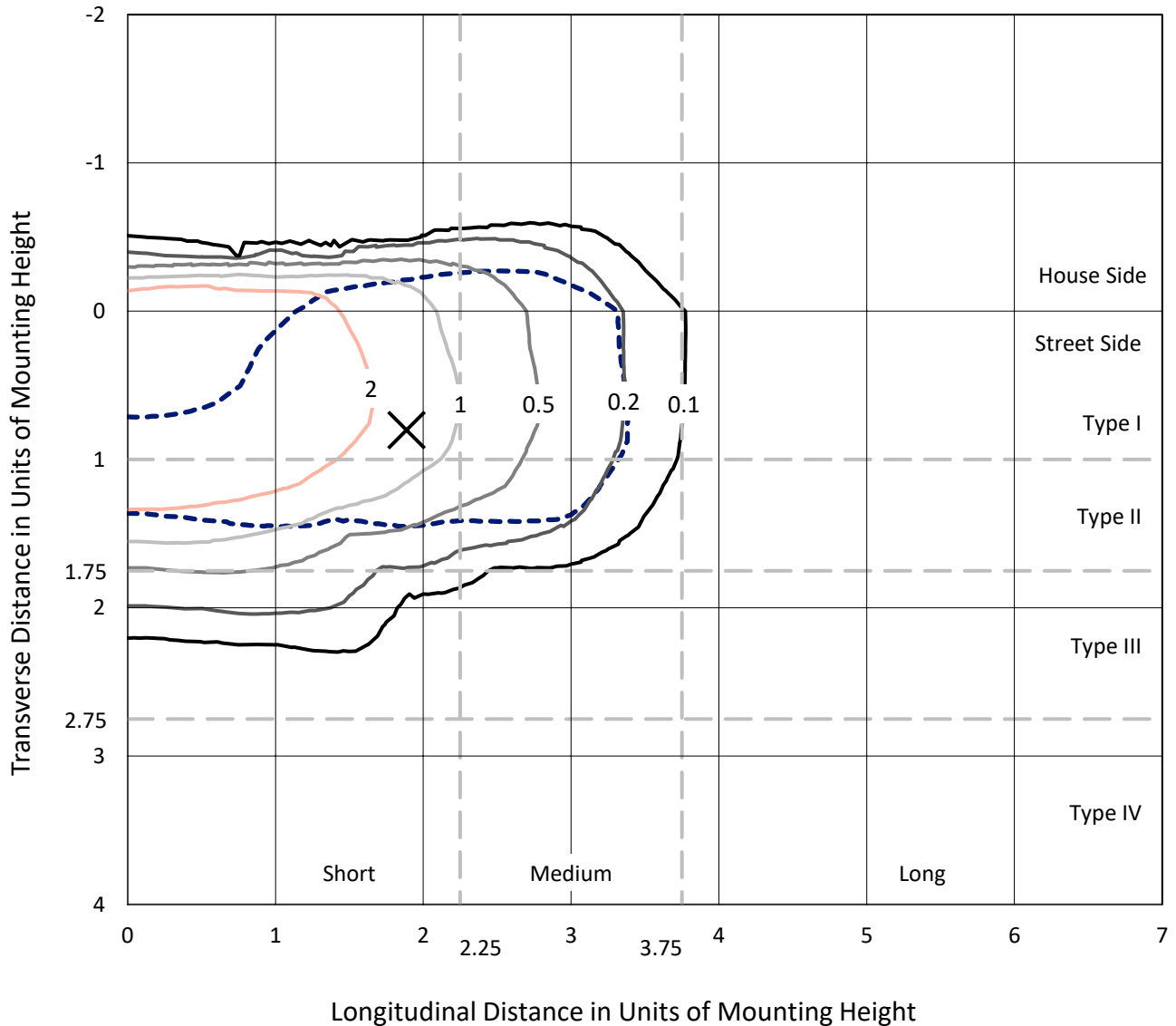
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

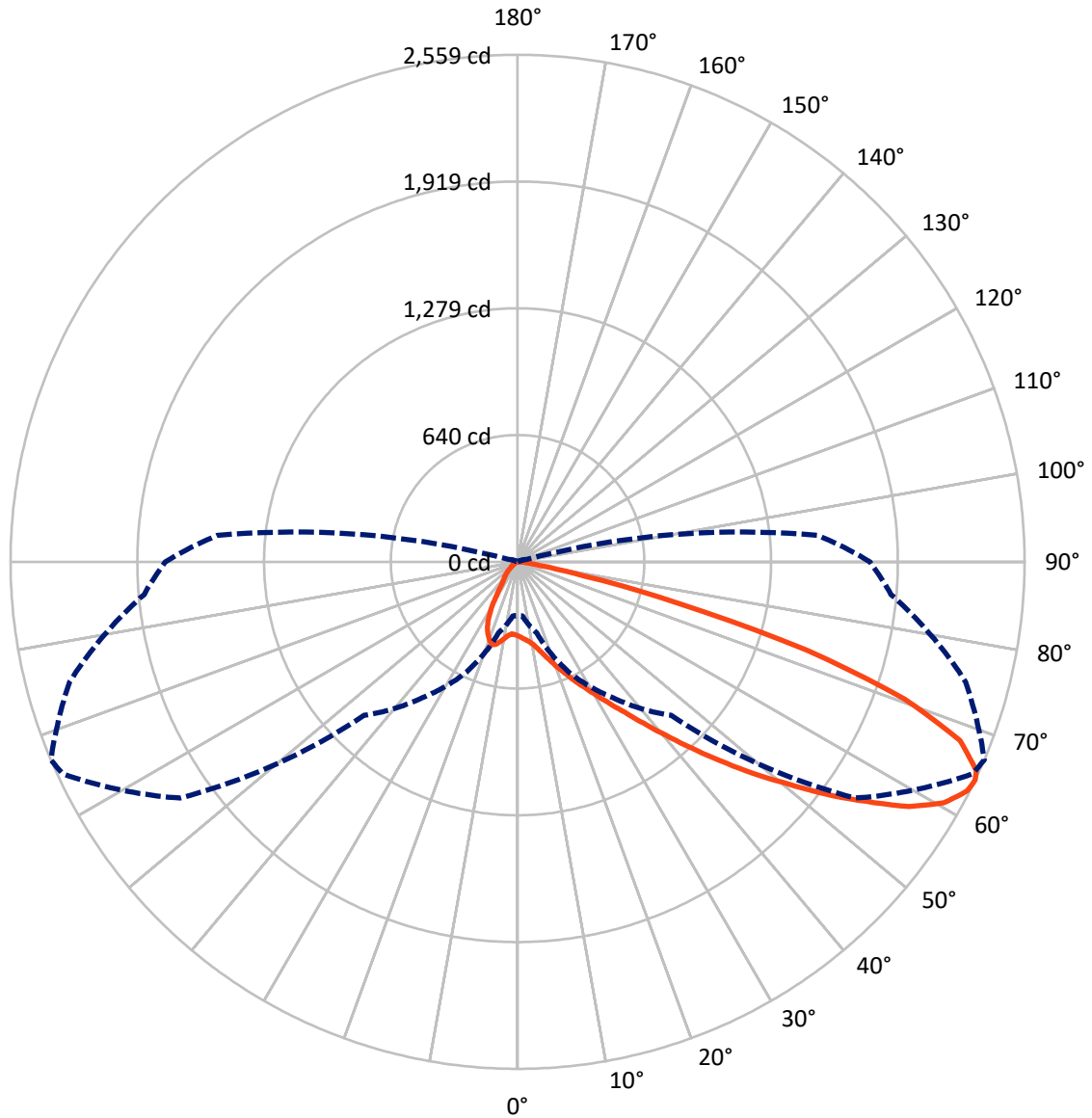
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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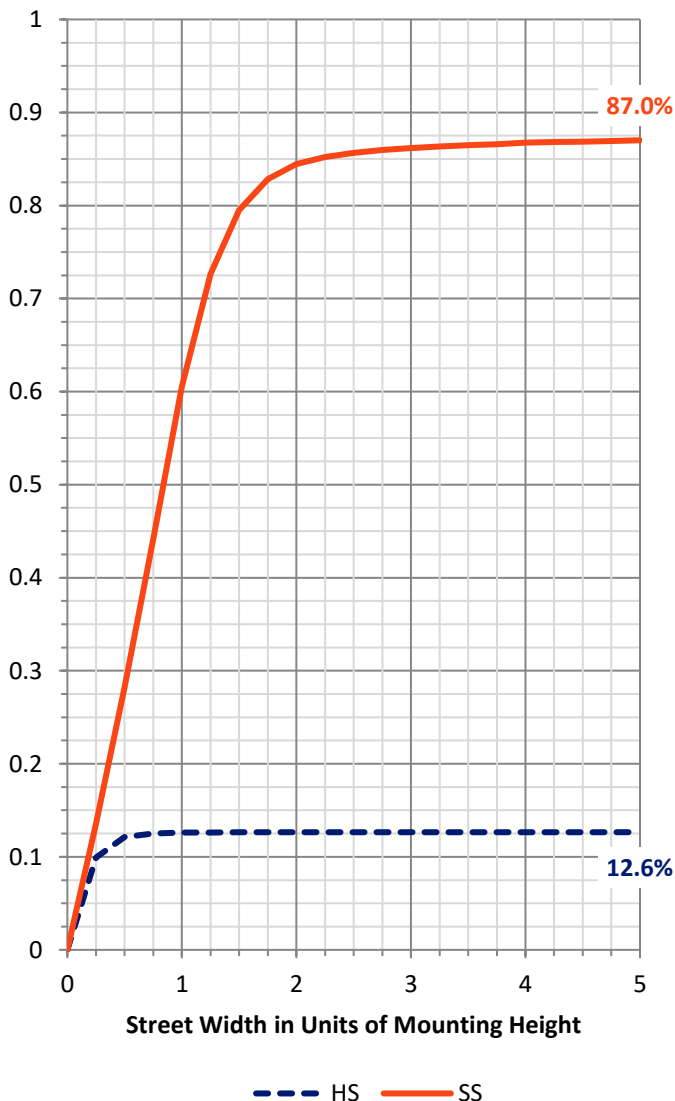
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	412.2	0.0	412.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2809.8	0.0	2809.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	3222.0	0.0	3222.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.5	1.1
10°-20°	104.8	3.3
20°-30°	190.2	5.9
30°-40°	364.3	11.3
40°-50°	671.5	20.8
50°-60°	867.3	26.9
60°-70°	710.4	22.0
70°-80°	261.1	8.1
80°-90°	16.8	0.5
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°	3222.0	100.0
0°-180°	3222.0	100.0

Coefficient of Utilization



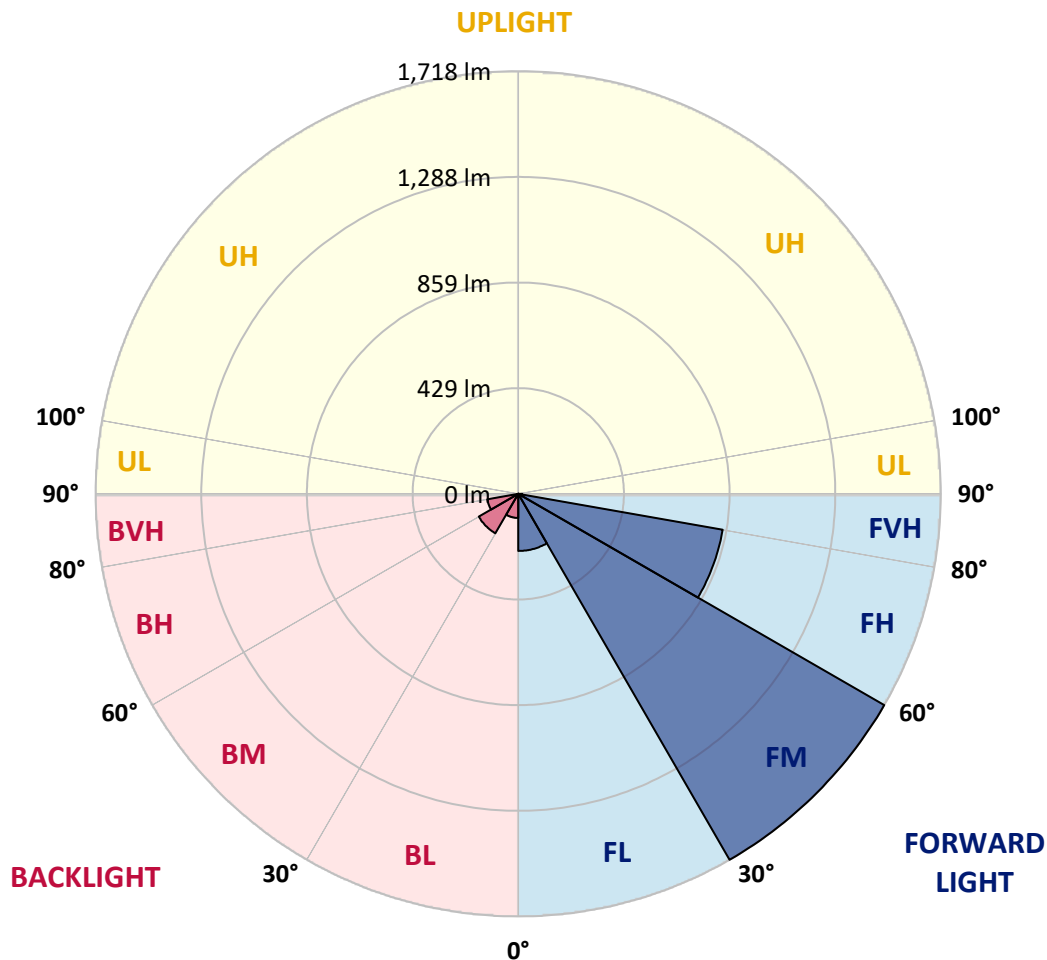
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	232.3	7.2			
FM (30°-60°)	1717.8	53.3			
FH (60°-80°)	843.7	26.2			G1/1800
FVH (80°-90°)	16.1	0.5			G1/100
BL (0°-30°)	98.2	3.0	B0/110		
BM (30°-60°)	185.3	5.8	B0/220		
BH (60°-80°)	127.9	4.0	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	374.4	374.4	374.4	374.4	374.4	374.4	374.4	374.4	374.4	374.4	374.4
2.5°	387.7	387.7	389.9	388.8	388.8	386.6	383.2	384.3	383.2	382.1	378.8
5°	381.0	382.1	383.2	385.5	389.9	392.1	392.1	393.2	393.2	392.1	387.7
7.5°	377.7	379.9	382.1	384.3	389.9	393.2	398.7	405.4	405.4	406.5	402.1
10°	389.9	392.1	395.4	398.7	404.3	409.8	414.3	422.0	422.0	424.2	423.1
12.5°	415.4	415.4	416.5	418.7	426.4	433.1	440.8	447.5	448.6	449.7	446.4
15°	446.4	446.4	447.5	447.5	451.9	461.9	476.3	482.9	481.8	480.7	474.1
17.5°	481.8	481.8	481.8	482.9	485.1	490.7	507.3	520.6	519.5	518.4	505.1
20°	515.1	517.3	519.5	520.6	522.8	527.2	545.0	560.5	563.8	559.4	536.1
22.5°	552.7	553.8	554.9	558.2	563.8	566.0	583.7	607.0	610.3	604.8	573.8
25°	590.4	592.6	595.9	600.3	605.9	617.0	629.1	660.2	663.5	656.8	614.7
27.5°	673.4	672.3	662.4	654.6	655.7	663.5	680.1	713.3	716.6	710.0	655.7
30°	815.2	801.9	783.1	748.8	715.5	718.9	742.1	774.2	779.8	770.9	701.1
32.5°	1016.8	1003.5	957.0	881.7	808.6	784.2	814.1	845.1	851.8	841.8	754.3
35°	1212.9	1209.5	1165.2	1074.4	950.4	882.8	890.5	930.4	932.6	920.4	820.8
37.5°	1455.4	1443.2	1382.3	1280.4	1134.2	1013.5	991.3	1029.0	1034.5	1020.1	901.6
40°	1616.0	1611.6	1575.1	1503.1	1345.8	1194.0	1114.3	1150.8	1149.7	1128.7	994.7
42.5°	1709.1	1711.3	1709.1	1674.7	1585.0	1411.1	1277.1	1279.3	1282.6	1260.5	1102.1
45°	1772.2	1772.2	1775.5	1803.2	1768.9	1670.3	1475.4	1425.5	1430.0	1395.6	1214.0
47.5°	1771.1	1777.8	1795.5	1859.7	1906.2	1911.8	1723.5	1596.1	1593.9	1541.8	1329.2
50°	1651.5	1647.1	1720.2	1864.1	2003.7	2111.2	1958.3	1776.6	1757.8	1693.6	1448.8
52.5°	1382.3	1396.7	1518.6	1730.1	2027.0	2246.3	2161.0	1973.8	1949.4	1844.2	1554.0
55°	1147.5	1163.0	1281.5	1488.7	1900.7	2293.9	2297.2	2183.1	2134.4	1974.9	1662.6
57.5°	861.7	891.6	1066.7	1261.6	1623.8	2175.4	2346.0	2383.6	2330.5	2101.2	1751.2
60°	550.5	568.2	764.3	1004.6	1315.9	1865.3	2336.0	2499.9	2471.1	2216.4	1825.4
62.5°	360.0	369.9	505.1	756.5	1002.4	1405.6	2217.5	2546.5	2546.5	2293.9	1880.8
64°	271.4	273.6	369.9	614.7	836.3	1095.5	2077.9	2532.1	2558.6	2340.4	1891.8
65°	214.9	216.0	289.1	510.6	751.0	898.3	1956.1	2501.0	2544.2	2358.2	1898.5
67.5°	150.6	154.0	187.2	294.6	538.3	518.4	1449.9	2354.8	2408.0	2363.7	1889.6
70°	130.7	135.1	157.3	192.7	384.3	301.3	770.9	2007.0	2070.2	2202.0	1758.9
72.5°	99.7	105.2	131.8	162.8	270.3	203.8	298.0	1425.5	1525.2	1702.4	1452.1
75°	72.0	74.2	97.5	132.9	189.4	157.3	128.5	735.5	836.3	1004.6	902.7
77.5°	45.4	48.7	66.5	99.7	169.5	119.6	76.4	268.0	337.8	437.5	394.3
80°	26.6	27.7	39.9	68.7	114.1	88.6	48.7	95.3	115.2	162.8	105.2
82.5°	15.5	16.6	25.5	46.5	74.2	68.7	31.0	48.7	54.3	62.0	22.2
85°	5.5	5.5	17.7	27.7	39.9	34.3	17.7	25.5	27.7	34.3	6.6
87.5°	1.1	1.1	8.9	14.4	14.4	5.5	8.9	11.1	13.3	18.8	2.2
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°	374.4	374.4	374.4	374.4	374.4	374.4	374.4	374.4	374.4	374.4	374.4
2.5°	377.7	374.4	371.1	366.6	363.3	356.7	353.3	348.9	347.8	345.6	344.5
5°	386.6	381.0	373.3	362.2	355.6	345.6	338.9	332.3	331.2	329.0	327.9
7.5°	398.7	393.2	383.2	371.1	360.0	350.0	342.3	332.3	322.3	314.6	314.6
10°	418.7	412.0	398.7	387.7	374.4	353.3	316.8	283.6	262.5	249.2	244.8
12.5°	443.1	434.2	419.8	406.5	381.0	314.6	258.1	214.9	179.4	162.8	159.5
15°	468.5	460.8	446.4	426.4	350.0	262.5	188.3	121.8	87.5	72.0	74.2
17.5°	496.2	485.1	468.5	428.7	307.9	196.1	100.8	62.0	53.2	51.0	51.0
20°	525.0	510.6	494.0	404.3	253.6	113.0	57.6	46.5	43.2	39.9	41.0
22.5°	556.0	538.3	512.8	367.7	181.7	60.9	44.3	37.7	33.2	32.1	32.1
25°	589.3	563.8	531.7	325.6	105.2	46.5	36.6	29.9	26.6	25.5	24.4
27.5°	624.7	592.6	536.1	270.3	59.8	38.8	28.8	23.3	19.9	18.8	18.8
30°	656.8	621.4	526.1	200.5	45.4	32.1	23.3	17.7	15.5	15.5	15.5
32.5°	700.0	653.5	495.1	125.2	36.6	25.5	17.7	14.4	12.2	12.2	12.2
35°	756.5	701.1	464.1	66.5	29.9	21.0	14.4	11.1	10.0	10.0	10.0
37.5°	834.0	764.3	436.4	42.1	24.4	16.6	11.1	8.9	7.8	7.8	7.8
40°	913.8	839.6	397.6	32.1	19.9	13.3	8.9	6.6	5.5	5.5	6.6
42.5°	1013.5	927.1	353.3	27.7	16.6	11.1	6.6	4.4	3.3	4.4	4.4
45°	1114.3	1019.0	291.3	23.3	14.4	8.9	4.4	2.2	2.2	3.3	3.3
47.5°	1218.4	1116.5	226.0	19.9	12.2	6.6	3.3	1.1	1.1	2.2	2.2
50°	1325.8	1212.9	168.4	17.7	10.0	5.5	2.2	1.1	0.0	1.1	1.1
52.5°	1433.3	1305.9	130.7	15.5	8.9	4.4	1.1	0.0	0.0	0.0	1.1
55°	1533.0	1390.1	104.1	13.3	7.8	3.3	1.1	0.0	0.0	0.0	0.0
57.5°	1617.1	1452.1	83.1	12.2	6.6	2.2	1.1	0.0	0.0	0.0	0.0
60°	1696.9	1500.8	64.2	10.0	5.5	2.2	1.1	0.0	0.0	0.0	0.0
62.5°	1753.4	1519.7	52.1	8.9	4.4	2.2	0.0	0.0	0.0	0.0	0.0
64°	1777.8	1521.9	45.4	7.8	4.4	2.2	1.1	0.0	0.0	0.0	0.0
65°	1792.2	1515.2	42.1	7.8	4.4	2.2	1.1	0.0	0.0	0.0	0.0
67.5°	1795.5	1478.7	32.1	6.6	3.3	1.1	1.1	0.0	0.0	0.0	0.0
70°	1698.0	1351.3	23.3	4.4	2.2	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1418.9	1032.3	15.5	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0
75°	886.1	446.4	8.9	3.3	1.1	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	366.6	135.1	5.5	2.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0
80°	84.2	32.1	2.2	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	19.9	5.5	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
85°	4.4	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	1.1	1.1	1.1	1.1	1.1	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)