

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: P594093

Luminaire Tested: **ISC-PA1B-827-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISC-PA1B-827-U-T2R
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3947.1 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
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

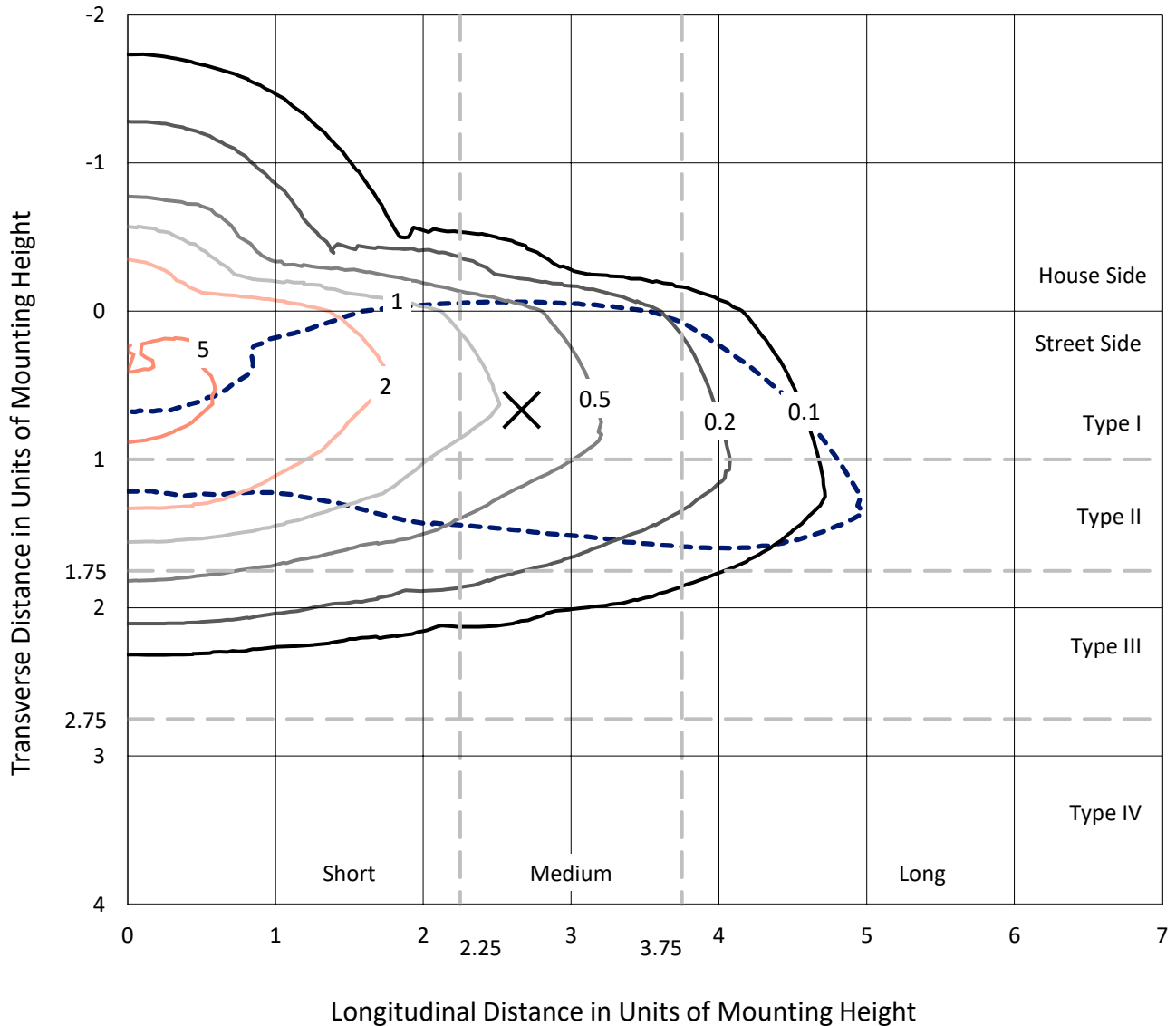




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Iso-Footcandle Lines of Horizontal Illumination

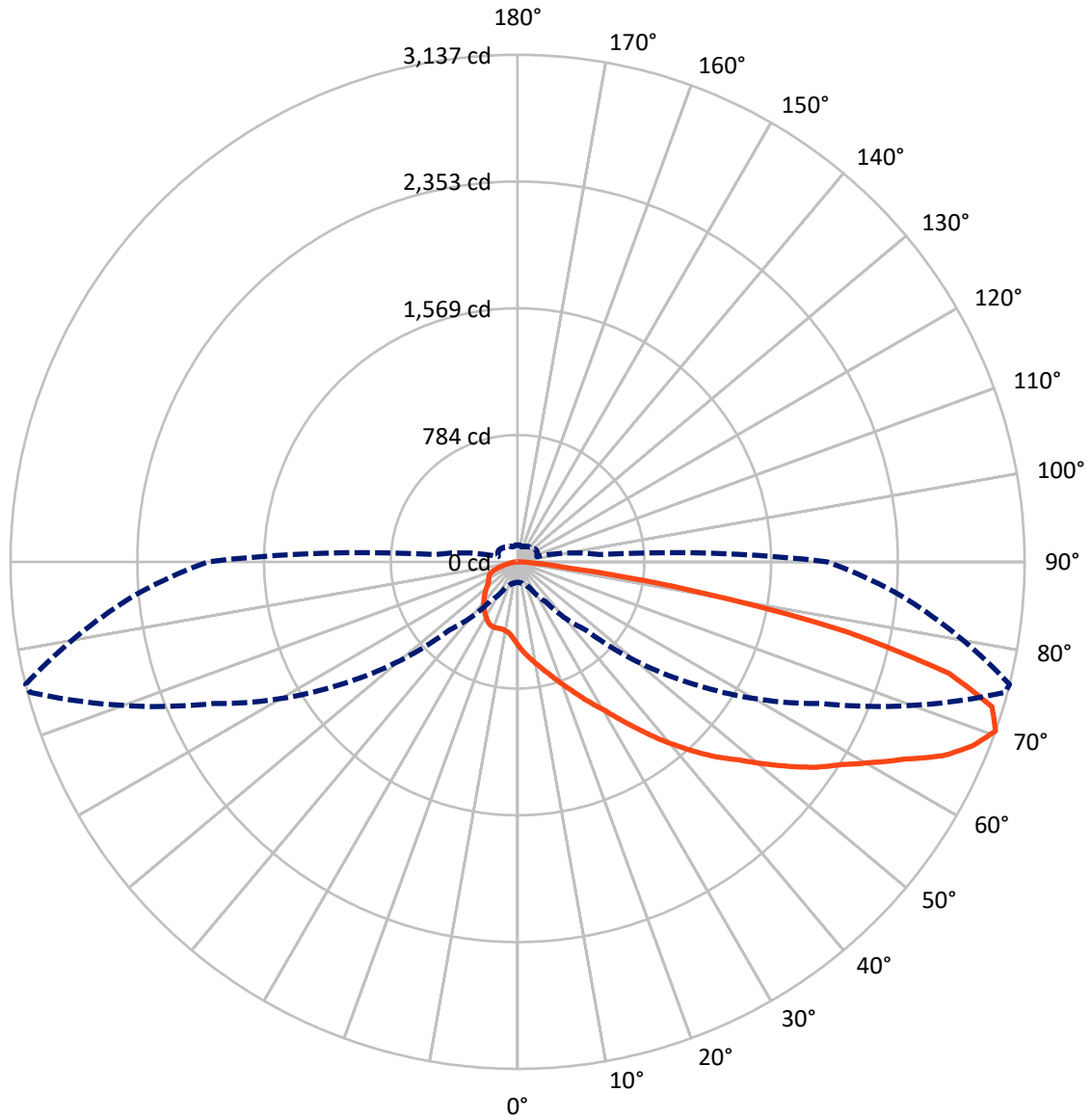
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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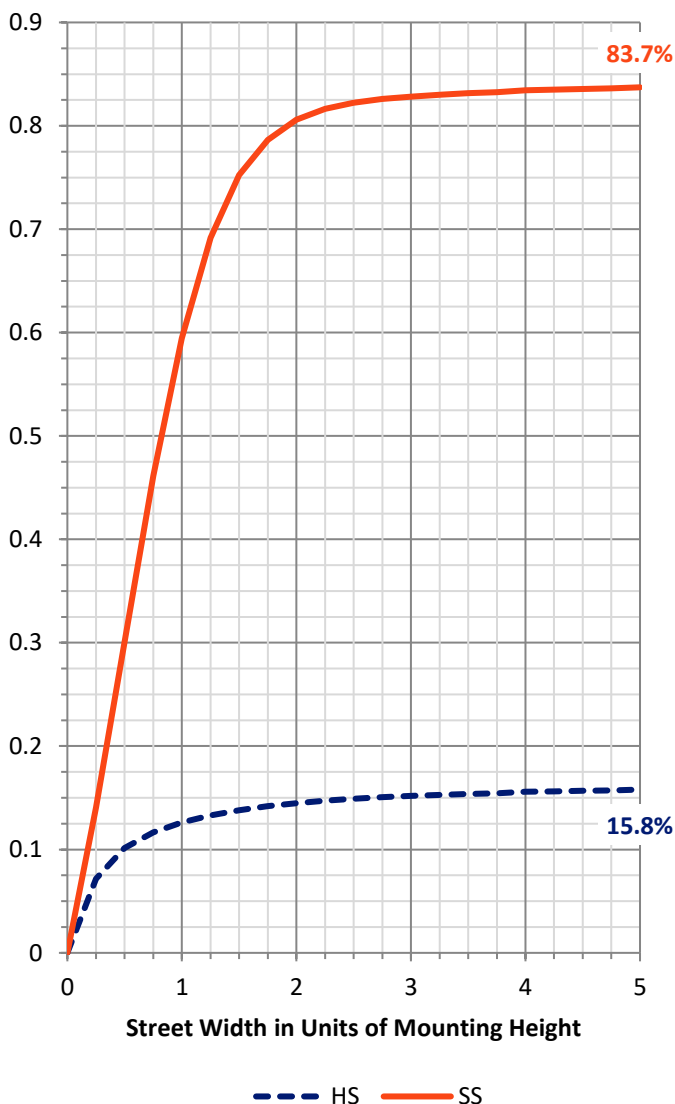
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	633.1	0.0	633.1
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	3314.0	0.0	3314.0
	% Fixture	84.0	0.0	84.0
Total	Lumens	3947.1	0.0	3947.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	1.3
10°-20°	166.5	4.2
20°-30°	306.9	7.8
30°-40°	514.2	13.0
40°-50°	730.6	18.5
50°-60°	843.6	21.4
60°-70°	775.5	19.6
70°-80°	489.0	12.4
80°-90°	70.3	1.8
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°	3947.1	100.0
0°-180°	3947.1	100.0

Coefficient of Utilization

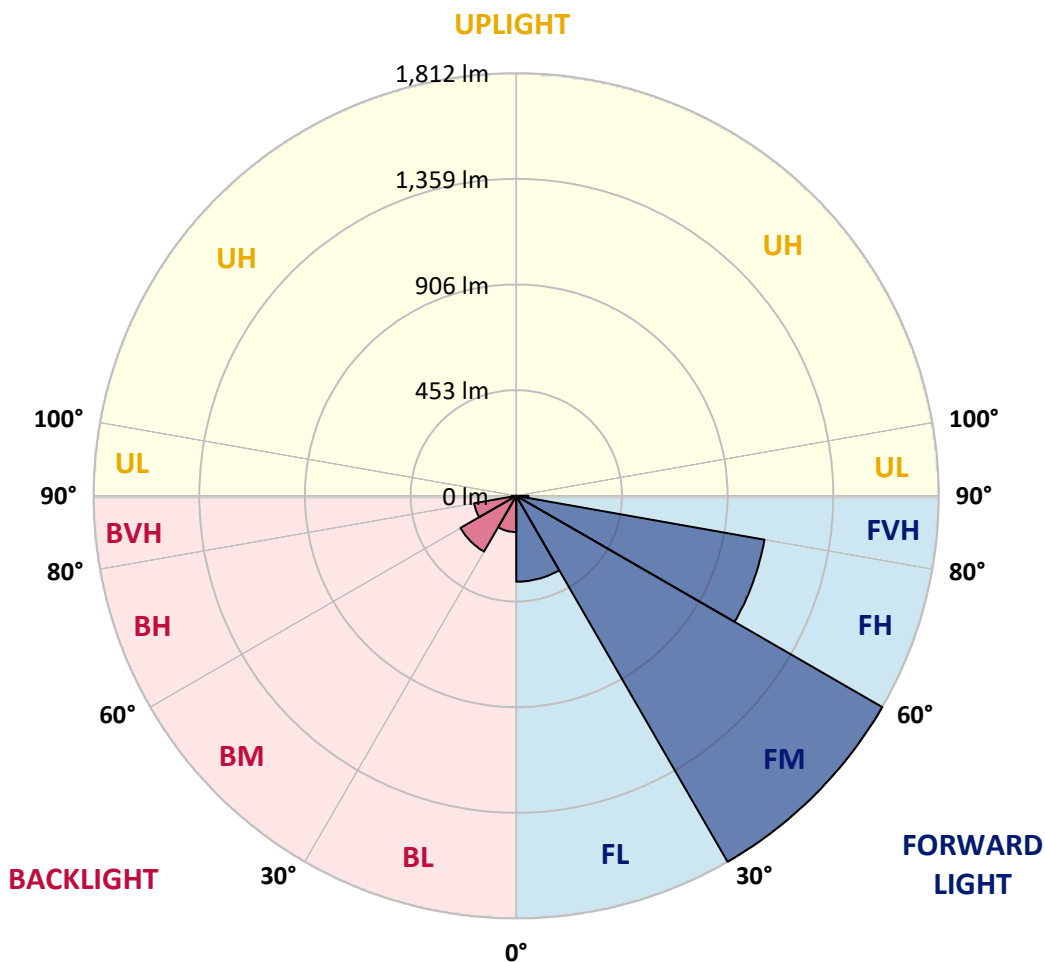


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	368.5	9.3			
FM (30°-60°)	1812.4	45.9			
FH (60°-80°)	1080.9	27.4			G1/1800
FVH (80°-90°)	52.1	1.3			G1/100
BL (0°-30°)	155.4	3.9	B1/500		
BM (30°-60°)	276.0	7.0	B1/1000		
BH (60°-80°)	183.5	4.6	B1/500		G1/500
BVH (80°-90°)	18.2	0.5			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	623.2	622.3	619.4	614.7	610.9	599.5	584.3	571.0	551.0	549.1	529.2
5°	679.3	675.5	675.5	670.7	666.0	653.6	634.6	610.9	582.4	580.5	542.5
7.5°	705.9	706.9	705.0	701.2	702.1	691.7	674.5	650.8	611.8	609.9	560.5
10°	743.9	743.0	739.2	736.3	735.4	725.9	710.7	688.8	647.9	644.1	581.4
12.5°	781.0	778.1	779.1	778.1	776.2	766.7	752.5	730.6	680.2	678.3	607.1
15°	801.9	800.9	807.6	809.5	817.1	808.5	796.2	771.5	725.9	718.3	637.5
17.5°	815.2	814.2	820.9	836.1	850.3	850.3	846.5	819.9	769.6	763.9	671.7
20°	838.0	841.8	853.2	865.5	886.4	890.2	889.3	877.9	819.9	814.2	709.7
22.5°	883.6	881.7	891.2	910.2	929.2	934.9	935.8	935.8	877.9	867.4	748.7
25°	981.4	976.7	969.1	967.2	990.0	989.0	986.2	992.8	938.7	931.1	793.3
27.5°	1167.6	1157.2	1127.7	1068.8	1055.5	1060.3	1046.0	1047.0	1008.0	998.5	831.3
30°	1344.3	1339.6	1312.0	1240.8	1165.7	1139.1	1114.4	1104.0	1085.0	1068.8	872.2
32.5°	1504.0	1504.9	1471.7	1393.8	1316.8	1233.2	1190.4	1168.6	1176.2	1161.9	928.2
35°	1612.3	1603.7	1582.8	1530.6	1447.0	1367.1	1285.4	1237.0	1277.8	1261.7	984.3
37.5°	1675.9	1669.3	1652.2	1615.1	1573.3	1496.4	1392.8	1318.7	1398.5	1374.7	1055.5
40°	1708.2	1698.7	1681.6	1666.4	1646.5	1604.7	1513.5	1411.8	1508.7	1487.8	1125.8
42.5°	1712.0	1705.4	1695.9	1688.3	1694.9	1689.2	1631.3	1520.1	1624.6	1601.8	1206.6
45°	1709.2	1713.9	1702.5	1689.2	1702.5	1751.0	1751.0	1628.4	1739.6	1722.5	1283.5
47.5°	1711.1	1706.3	1702.5	1698.7	1700.6	1767.1	1833.6	1730.1	1849.8	1829.8	1373.8
50°	1632.2	1638.9	1671.2	1685.4	1694.0	1770.9	1900.1	1840.3	1986.6	1961.9	1474.5
52.5°	1381.4	1385.2	1532.5	1638.9	1673.1	1755.7	1946.7	1962.8	2121.5	2102.5	1582.8
55°	1064.1	1084.0	1223.7	1484.0	1625.6	1730.1	1960.9	2042.6	2259.3	2244.1	1692.1
57.5°	876.0	878.8	959.6	1192.3	1475.5	1706.3	1975.2	2115.8	2382.8	2365.7	1806.1
60°	726.8	720.2	769.6	919.7	1225.6	1611.3	1978.0	2173.8	2526.2	2520.5	1923.9
62.5°	533.9	541.5	589.0	716.4	958.6	1418.5	1963.8	2223.2	2697.2	2689.6	2055.0
65°	327.8	337.3	395.2	512.1	725.9	1125.8	1870.7	2248.8	2876.8	2893.9	2196.6
67.5°	173.9	180.5	214.7	309.7	497.8	857.9	1646.5	2216.5	3028.8	3036.4	2332.4
70°	127.3	128.3	139.7	174.8	300.2	596.6	1311.1	2075.9	3121.9	3137.1	2377.1
72.5°	111.2	112.1	116.9	125.4	163.4	363.9	939.6	1830.8	3083.0	3069.7	2302.0
75°	100.7	100.7	104.5	107.4	119.7	201.4	575.7	1498.3	2785.6	2756.1	1962.8
77.5°	86.5	86.5	90.3	94.1	103.6	130.2	301.2	1110.6	2130.1	2079.7	1342.4
80°	69.4	69.4	74.1	78.9	91.2	97.9	147.3	743.0	1218.0	1143.9	610.9
82.5°	47.5	51.3	59.9	65.6	76.0	69.4	86.5	321.1	383.8	332.5	137.8
85°	28.5	30.4	42.8	49.4	57.0	37.1	53.2	123.5	115.0	100.7	31.4
87.5°	2.9	4.8	17.1	20.0	20.0	10.5	22.8	29.5	33.3	34.2	7.6
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°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	517.8	506.4	484.5	464.6	444.6	431.3	418.0	413.3	406.6	401.9	405.7
5°	522.5	498.8	457.0	421.8	398.1	380.0	371.5	366.7	362.9	362.0	361.0
7.5°	528.2	493.1	437.0	398.1	375.3	366.7	364.8	364.8	364.8	365.8	366.7
10°	540.6	495.0	426.6	384.8	372.4	370.5	371.5	375.3	375.3	376.2	376.2
12.5°	554.8	499.7	419.0	382.9	375.3	376.2	377.2	379.1	379.1	381.9	381.0
15°	575.7	509.2	418.0	384.8	378.1	376.2	376.2	375.3	375.3	375.3	377.2
17.5°	602.3	522.5	419.0	384.8	375.3	371.5	368.6	365.8	362.0	363.9	362.0
20°	628.9	538.7	419.0	380.0	367.7	358.2	349.6	344.9	340.1	339.2	340.1
22.5°	662.2	557.7	414.2	369.6	351.5	338.2	325.9	319.2	311.6	308.8	306.9
25°	690.7	572.9	404.7	354.4	333.5	314.5	298.3	286.9	277.4	275.5	275.5
27.5°	720.2	586.2	390.5	335.4	307.8	286.9	268.9	254.6	245.1	244.2	243.2
30°	747.7	597.6	371.5	314.5	285.0	260.3	239.4	227.1	218.5	213.8	210.9
32.5°	783.8	612.8	353.4	293.6	258.4	233.7	214.7	204.3	192.9	185.3	182.4
35°	829.4	630.8	333.5	270.8	234.7	210.0	198.6	183.4	169.1	160.6	157.7
37.5°	880.7	656.5	312.6	247.0	210.9	192.9	186.2	162.5	147.3	144.4	143.5
40°	944.4	681.2	288.8	222.3	188.1	183.4	172.0	147.3	139.7	138.7	137.8
42.5°	1008.0	707.8	266.0	197.6	170.1	172.0	155.8	143.5	136.8	134.9	134.0
45°	1082.1	734.4	243.2	175.8	155.8	155.8	147.3	139.7	134.0	132.1	132.1
47.5°	1160.0	761.0	218.5	156.8	145.4	139.7	140.6	134.9	131.1	129.2	128.3
50°	1257.9	786.7	195.7	143.5	138.7	131.1	134.0	130.2	128.3	126.4	125.4
52.5°	1350.0	798.1	174.8	135.9	134.9	127.3	128.3	126.4	125.4	122.6	121.6
55°	1440.3	795.2	158.7	132.1	130.2	126.4	124.5	123.5	122.6	119.7	118.8
57.5°	1541.0	791.4	148.2	131.1	127.3	123.5	123.5	120.7	116.9	116.9	116.9
60°	1645.5	779.1	143.5	131.1	126.4	123.5	121.6	118.8	115.0	115.9	115.0
62.5°	1763.3	755.3	140.6	134.0	127.3	122.6	120.7	116.9	112.1	113.1	112.1
65°	1866.9	706.9	138.7	136.8	129.2	123.5	118.8	114.0	108.3	109.3	108.3
67.5°	1937.2	625.1	133.0	138.7	132.1	122.6	116.9	110.2	102.6	106.4	105.5
70°	1917.2	508.3	122.6	134.9	134.9	123.5	114.0	105.5	96.9	104.5	101.7
72.5°	1762.4	381.9	102.6	121.6	133.0	123.5	108.3	97.9	90.3	95.0	89.3
75°	1447.0	259.4	81.7	96.9	124.5	124.5	103.6	90.3	80.8	77.9	76.0
77.5°	902.6	161.5	63.7	71.3	104.5	123.5	98.8	80.8	67.5	65.6	63.7
80°	357.2	86.5	50.4	51.3	77.0	113.1	92.2	68.4	54.2	52.3	48.5
82.5°	81.7	43.7	35.2	34.2	47.5	92.2	83.6	54.2	41.8	41.8	35.2
85°	24.7	22.8	22.8	21.9	23.8	47.5	64.6	37.1	28.5	20.0	17.1
87.5°	6.7	9.5	8.6	7.6	7.6	6.7	20.9	9.5	5.7	2.9	1.9
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)