

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: P594534

Luminaire Tested: **ISS-PA1B-727-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594534
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: ISS-PA1B-727-U-T2R
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 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: 4490 lumens
Efficiency: N/A
Efficacy: 123.4 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

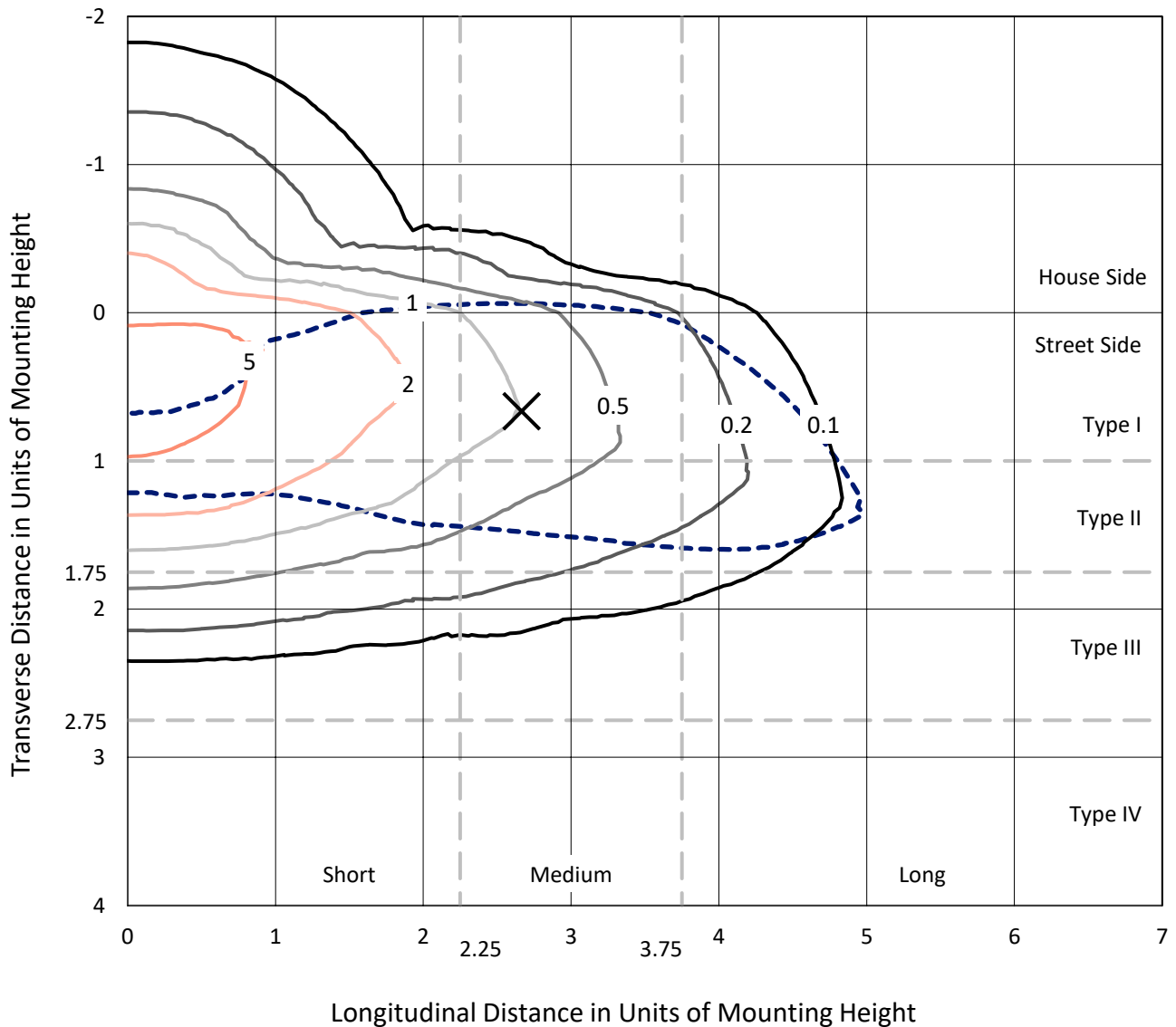
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

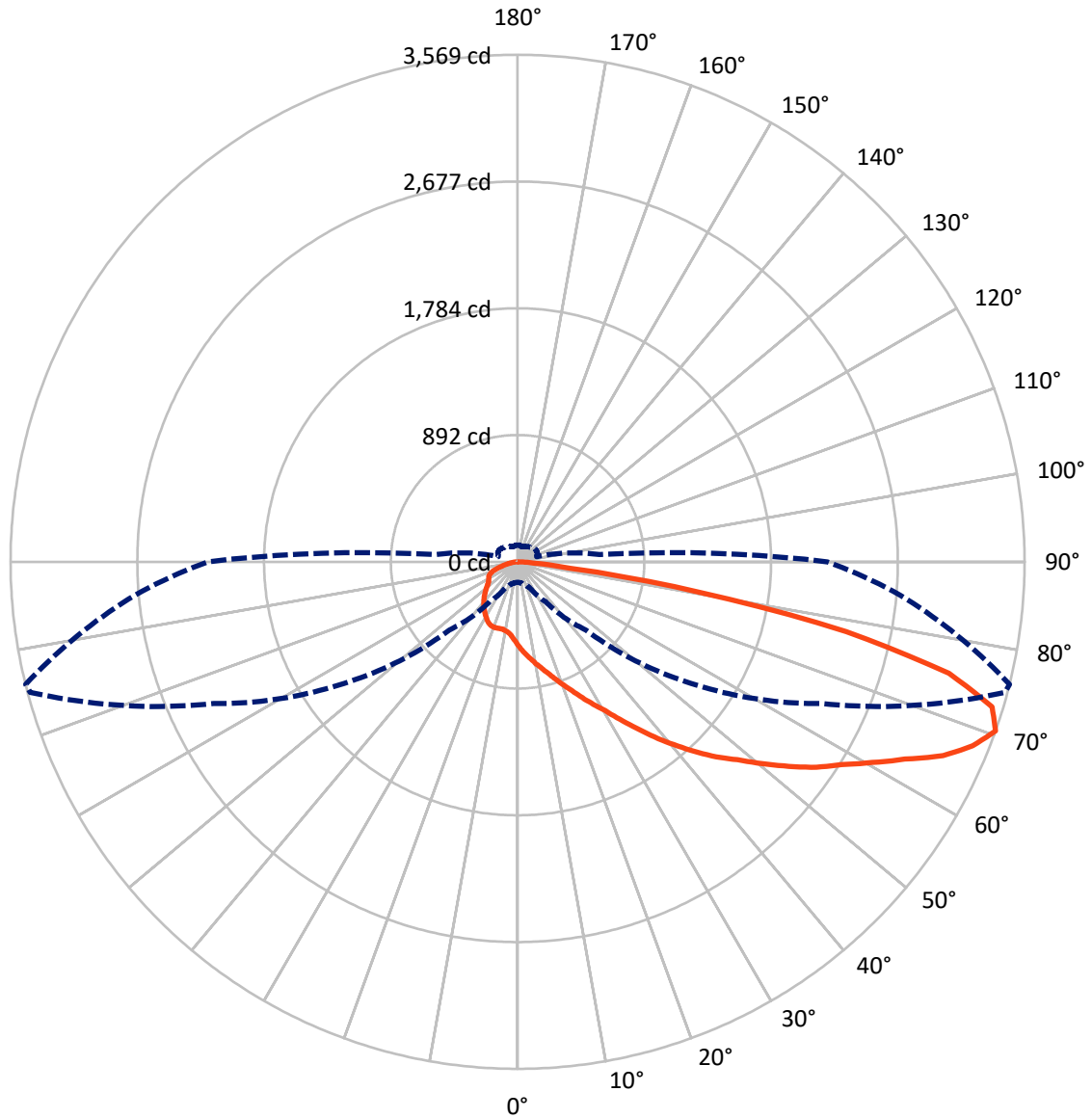
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.1 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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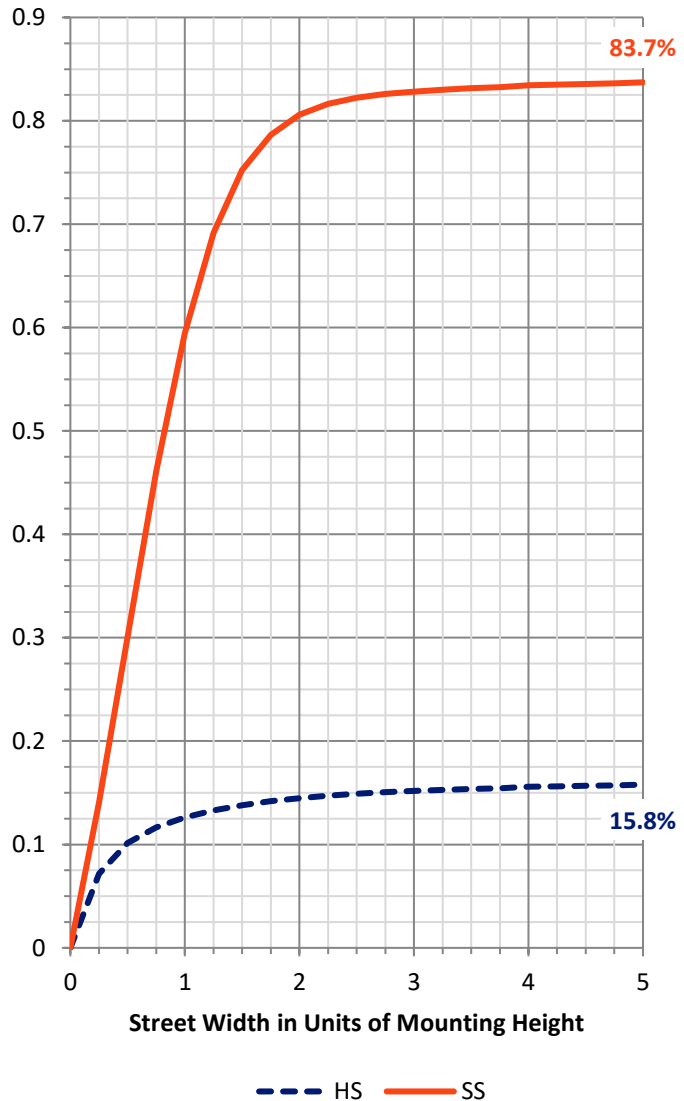
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	720.2	0.0	720.2
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	3769.8	0.0	3769.8
	% Fixture	84.0	0.0	84.0
Total	Lumens	4490.0	0.0	4490.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	1.3
10°-20°	189.4	4.2
20°-30°	349.1	7.8
30°-40°	584.9	13.0
40°-50°	831.1	18.5
50°-60°	959.6	21.4
60°-70°	882.1	19.6
70°-80°	556.2	12.4
80°-90°	80.0	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°	4490.0	100.0
0°-180°	4490.0	100.0

Coefficient of Utilization

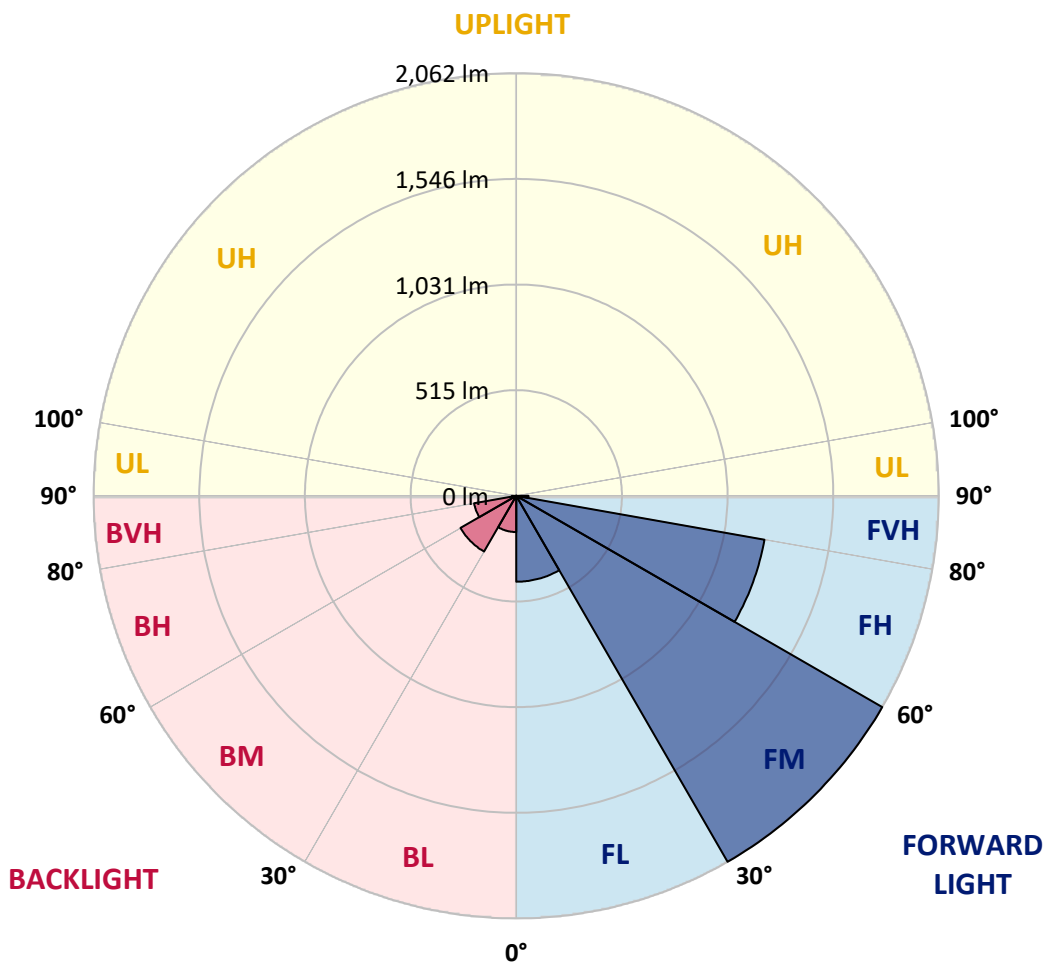


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	419.2	9.3			
FM (30°-60°)	2061.7	45.9			
FH (60°-80°)	1229.6	27.4			G1/1800
FVH (80°-90°)	59.3	1.3			G1/100
BL (0°-30°)	176.8	3.9	B1/500		
BM (30°-60°)	314.0	7.0	B1/1000		
BH (60°-80°)	208.7	4.6	B1/500		G1/500
BVH (80°-90°)	20.7	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°	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
2.5°	709.0	707.9	704.7	699.3	694.9	682.0	664.7	649.5	626.8	624.7	602.0
5°	772.8	768.4	768.4	763.0	757.6	743.6	722.0	694.9	662.5	660.4	617.1
7.5°	803.0	804.1	801.9	797.6	798.7	786.8	767.3	740.3	696.0	693.9	637.7
10°	846.2	845.2	840.8	837.6	836.5	825.7	808.4	783.6	737.1	732.8	661.4
12.5°	888.4	885.2	886.2	885.2	883.0	872.2	856.0	831.1	773.8	771.7	690.6
15°	912.2	911.1	918.7	920.8	929.5	919.7	905.7	877.6	825.7	817.1	725.2
17.5°	927.3	926.2	933.8	951.1	967.3	967.3	963.0	932.7	875.4	868.9	764.1
20°	953.2	957.6	970.5	984.6	1008.4	1012.7	1011.6	998.6	932.7	926.2	807.3
22.5°	1005.1	1003.0	1013.8	1035.4	1057.0	1063.5	1064.6	1064.6	998.6	986.7	851.6
25°	1116.4	1111.0	1102.4	1100.2	1126.2	1125.1	1121.8	1129.4	1067.8	1059.2	902.4
27.5°	1328.3	1316.4	1282.9	1215.9	1200.7	1206.1	1189.9	1191.0	1146.7	1135.9	945.7
30°	1529.3	1523.9	1492.5	1411.5	1326.1	1295.8	1267.7	1255.9	1234.2	1215.9	992.1
32.5°	1710.9	1711.9	1674.1	1585.5	1498.0	1402.8	1354.2	1329.4	1338.0	1321.8	1055.9
35°	1834.1	1824.3	1800.6	1741.1	1646.0	1555.2	1462.3	1407.2	1453.6	1435.3	1119.7
37.5°	1906.5	1898.9	1879.5	1837.3	1789.8	1702.2	1584.4	1500.1	1590.9	1563.9	1200.7
40°	1943.2	1932.4	1913.0	1895.7	1873.0	1825.4	1721.7	1606.0	1716.3	1692.5	1280.7
42.5°	1947.6	1940.0	1929.2	1920.5	1928.1	1921.6	1855.7	1729.2	1848.1	1822.2	1372.6
45°	1944.3	1949.7	1936.7	1921.6	1936.7	1991.9	1991.9	1852.4	1978.9	1959.4	1460.1
47.5°	1946.5	1941.1	1936.7	1932.4	1934.6	2010.2	2085.9	1968.1	2104.3	2081.6	1562.8
50°	1856.8	1864.3	1901.1	1917.3	1927.0	2014.6	2161.5	2093.5	2259.9	2231.8	1677.4
52.5°	1571.4	1575.8	1743.3	1864.3	1903.2	1997.3	2214.5	2232.9	2413.4	2391.7	1800.6
55°	1210.5	1233.2	1392.0	1688.2	1849.2	1968.1	2230.7	2323.7	2570.1	2552.8	1924.9
57.5°	996.5	999.7	1091.6	1356.4	1678.4	1941.1	2246.9	2406.9	2710.6	2691.1	2054.5
60°	826.8	819.2	875.4	1046.2	1394.2	1833.0	2250.2	2472.8	2873.8	2867.3	2188.6
62.5°	607.4	616.0	670.1	814.9	1090.5	1613.6	2234.0	2529.0	3068.3	3059.7	2337.7
65°	372.9	383.7	449.6	582.5	825.7	1280.7	2128.0	2558.2	3272.6	3292.0	2498.7
67.5°	197.8	205.3	244.3	352.3	566.3	975.9	1873.0	2521.4	3445.5	3454.1	2653.3
70°	144.8	145.9	158.9	198.9	341.5	678.7	1491.5	2361.5	3551.4	3568.7	2704.1
72.5°	126.5	127.5	132.9	142.7	185.9	413.9	1068.9	2082.6	3507.1	3492.0	2618.7
75°	114.6	114.6	118.9	122.1	136.2	229.1	654.9	1704.4	3168.8	3135.3	2232.9
77.5°	98.4	98.4	102.7	107.0	117.8	148.1	342.6	1263.4	2423.1	2365.8	1527.1
80°	78.9	78.9	84.3	89.7	103.8	111.3	167.5	845.2	1385.6	1301.3	694.9
82.5°	54.0	58.4	68.1	74.6	86.5	78.9	98.4	365.3	436.6	378.3	156.7
85°	32.4	34.6	48.6	56.2	64.8	42.2	60.5	140.5	130.8	114.6	35.7
87.5°	3.2	5.4	19.5	22.7	22.7	11.9	25.9	33.5	37.8	38.9	8.6
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°	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
2.5°	589.0	576.1	551.2	528.5	505.8	490.7	475.5	470.1	462.6	457.2	461.5
5°	594.4	567.4	519.9	479.9	452.8	432.3	422.6	417.2	412.9	411.8	410.7
7.5°	600.9	560.9	497.2	452.8	426.9	417.2	415.0	415.0	415.0	416.1	417.2
10°	615.0	563.1	485.3	437.7	423.7	421.5	422.6	426.9	426.9	428.0	428.0
12.5°	631.2	568.5	476.6	435.6	426.9	428.0	429.1	431.2	431.2	434.5	433.4
15°	654.9	579.3	475.5	437.7	430.1	428.0	428.0	426.9	426.9	426.9	429.1
17.5°	685.2	594.4	476.6	437.7	426.9	422.6	419.3	416.1	411.8	413.9	411.8
20°	715.5	612.8	476.6	432.3	418.3	407.5	397.7	392.3	386.9	385.8	386.9
22.5°	753.3	634.4	471.2	420.4	399.9	384.8	370.7	363.1	354.5	351.3	349.1
25°	785.7	651.7	460.4	403.1	379.4	357.7	339.4	326.4	315.6	313.4	313.4
27.5°	819.2	666.8	444.2	381.5	350.2	326.4	305.9	289.6	278.8	277.8	276.7
30°	850.6	679.8	422.6	357.7	324.2	296.1	272.4	258.3	248.6	243.2	239.9
32.5°	891.6	697.1	402.0	334.0	294.0	265.9	244.3	232.4	219.4	210.8	207.5
35°	943.5	717.6	379.4	308.0	267.0	238.9	225.9	208.6	192.4	182.7	179.4
37.5°	1001.9	746.8	355.6	281.0	239.9	219.4	211.8	184.8	167.5	164.3	163.2
40°	1074.3	774.9	328.6	252.9	214.0	208.6	195.6	167.5	158.9	157.8	156.7
42.5°	1146.7	805.2	302.6	224.8	193.5	195.6	177.2	163.2	155.6	153.5	152.4
45°	1231.0	835.4	276.7	199.9	177.2	177.2	167.5	158.9	152.4	150.2	150.2
47.5°	1319.6	865.7	248.6	178.3	165.4	158.9	160.0	153.5	149.1	147.0	145.9
50°	1430.9	894.9	222.6	163.2	157.8	149.1	152.4	148.1	145.9	143.7	142.7
52.5°	1535.8	907.8	198.9	154.6	153.5	144.8	145.9	143.7	142.7	139.4	138.3
55°	1638.5	904.6	180.5	150.2	148.1	143.7	141.6	140.5	139.4	136.2	135.1
57.5°	1753.0	900.3	168.6	149.1	144.8	140.5	140.5	137.3	132.9	132.9	132.9
60°	1871.9	886.2	163.2	149.1	143.7	140.5	138.3	135.1	130.8	131.9	130.8
62.5°	2005.9	859.2	160.0	152.4	144.8	139.4	137.3	132.9	127.5	128.6	127.5
65°	2123.7	804.1	157.8	155.6	147.0	140.5	135.1	129.7	123.2	124.3	123.2
67.5°	2203.7	711.1	151.3	157.8	150.2	139.4	132.9	125.4	116.7	121.0	120.0
70°	2181.0	578.2	139.4	153.5	153.5	140.5	129.7	120.0	110.2	118.9	115.6
72.5°	2004.8	434.5	116.7	138.3	151.3	140.5	123.2	111.3	102.7	108.1	101.6
75°	1646.0	295.1	92.9	110.2	141.6	141.6	117.8	102.7	91.9	88.6	86.5
77.5°	1026.7	183.7	72.4	81.1	118.9	140.5	112.4	91.9	76.7	74.6	72.4
80°	406.4	98.4	57.3	58.4	87.5	128.6	104.8	77.8	61.6	59.4	55.1
82.5°	92.9	49.7	40.0	38.9	54.0	104.8	95.1	61.6	47.6	47.6	40.0
85°	28.1	25.9	25.9	24.9	27.0	54.0	73.5	42.2	32.4	22.7	19.5
87.5°	7.6	10.8	9.7	8.6	8.6	7.6	23.8	10.8	6.5	3.2	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

(END OF REPORT)